

May 1, 2015

Project #14411

Mr. John Hnat  
Hydrogeologist  
Wisconsin Dept. of Natural Resources  
2300 N. Martin Luther King Drive  
Milwaukee, WI 53212

Mr. Gerald L DeMers, P.E.  
Engineer  
Wisconsin Dept. of Natural Resources  
2300 N. Martin Luther King Drive  
Milwaukee, WI 53212

**RE.:** Project Update Report  
Village of Whitefish Bay Landfill  
5201 W. Good Hope Road, Milwaukee, WI 53223  
License Number 356      FID: 241218670      BRRTS: 02-41-000254

Dear Mr. Hnat and Mr. DeMers:

The Sigma Group, Inc. (Sigma) has prepared this letter report to present soil and groundwater investigation activities performed during December 2013 through July 2014 at a former landfill property located at 5201 W. Good Hope Road, Milwaukee, Wisconsin. These activities were completed in accordance with the sampling and analysis requirements stipulated in the Wisconsin Department of Natural Resources (WDNR) Notice of Noncompliance letter dated October 28, 2013. Pursuant to the letter two rounds of groundwater monitoring and a source area soil investigation were performed to evaluate the existing subsurface conditions and delineate the soil impacts previously identified at the site. In mid December 2013 the first round of groundwater monitoring was performed, the second round of groundwater monitoring was completed in June 2014, and the soil investigation was performed during the spring/summer of 2014. The following sections present a summary of the investigation activities completed at the site, present an evaluation of the data, discuss the subsurface environmental conditions, and provide recommendations for future activities.

#### **SITE BACKGROUND**

The Village of Whitefish Bay (the "Village") acquired the landfill property located at 5201 West Good Hope Road, Milwaukee, in 1960. The property contains approximately 13-acres of land and is located south of West Good Hope Road and west of the Lincoln Creek. To the south lies a former school property owned by Milwaukee Public School (MPS) and to the west is the Presidio Square Apartment Complex (**Figure 1**).

The Village used the property on West Good Hope Road as a landfill for the incinerator ash and some street and demolition debris. During its ten years or so of operation, the landfilling activities were performed by Village personnel with only the northern half of the property used for landfill purposes.

The landfill activities ceased in 1972 and the entire property was reportedly graded and covered with clean fill during the early 1980s to comply with the WDNR closure regulations. The property has remained vacant since closure.

In 1986, the Village retained an outside consultant to perform environmental due diligence and site assessment activities. During subsurface assessment activities soil borings were installed across the landfill and soil and groundwater samples were collected for laboratory analysis. Results of the investigation indicated the presence of volatile organic compounds (VOCs) within the southern half of the landfill property. In 1995 the Village contracted with Sigma to continue the investigation for the purpose of defining the nature and extent of subsurface environmental impacts. Multiple investigations on the landfill property and also at downgradient locations further south were conducted by Sigma from 1995 through 2002. These included the installation of Geoprobe borings, soil borings, groundwater monitoring wells and piezometers both at on-site and off-site locations. A survey of water supply wells was performed to determine the presence of potential receptors downgradient of the landfill site.

In addition, because the property directly south of the landfill was a public school bordered on its south by residential areas, soil gas studies were performed in those areas and in the school building to identify any potential risks associated with the vapor intrusion. The potential exposure resulting from discharge of impacted groundwater into Lincoln Creek was also evaluated during a hydrological study for Lincoln Creek Flood Control Management Plan commissioned by the Milwaukee Metropolitan Sewerage District in 1998.

The multi-phase, multi-property investigation activities completed the off-site delineation of the subsurface impacts and demonstrated that no immediate vapor intrusion concerns existed at buildings and residence structures located south of the landfill property. Additional investigation was needed to define the soil impacts identified on the landfill property and develop a remediation plan to address the source.

**EXISTING SITE CONDITIONS.** During the 2013-2014 investigation Sigma completed several site visits and performed reconnaissance of the sampling points and the landfill site. The property is still vacant with overgrown trees and dense foliage. Several walking trails are still in place and appear to be in regular use. No accumulation of garbage or dumped refuse was noted during spring of 2014. Village posted warning signs were visible near the southwest end of the property.

The land surface is generally flat in the northern half of the property and becomes relatively uneven to the south. A small drop-off is present along the southern property boundary, a ditch near the mid-section running east-west and a mound near the western boundary in the vicinity of the well nest MW-E/W-MW-10 were observed. Considering the relative position of the well nest and the mound it appears the mound was present prior to the well installation activities in 1996 and no new dumping was apparent.

## INVESTIGATION ACTIVITIES

**Well Inventory** – In accordance with the WDNR October 28, 2013 request, all wells and piezometers located on the former Whitefish Bay Landfill property as well as wells located downgradient south of the landfill (**Figure 2**) were inspected during the week of December 2, 2013. A total of 37 wells and piezometers are associated with the landfill project site (18 are located on the landfill property, 11 are located on the MPS property and eight on the residential subdivision and Graceland Cemetery). The location of each well was inspected based on the site map, re-labeled to identify the well designation in accordance with the WDNR letter, and assessed for damage by measuring the depth of water and depth of well bottom. Based on the in-field inspection, the majority of the wells/piezometers were found to be in good condition for future monitoring activities with the exception of two well nests. Two monitoring well nests (MW-B/PZ-B and MPS:MW-1/P-1) were found either damaged or destroyed. The damaged wells/piezometers were abandoned in place in accordance with the WAC NR 141.25. The need for replacement of these wells were evaluated considering their relative position with respect to the source area, the direction of the groundwater flow and the degree of impacts observed in the past and only one piezometer MPS:P-1 is deemed appropriate for replacement.

**Groundwater Monitoring** - Following the well inventory activities, Sigma completed the first round of groundwater monitoring during the week of December 16, 2013. Consistent with the WDNR request a second round of monitoring was performed in June 2014. The groundwater monitoring included the measurement of water level and in situ field parameters including dissolved oxygen (DO), oxidation-reduction potential (REDOX), pH, conductivity and temperature. The wells were then purged and sampled for laboratory analysis. All groundwater samples collected from on- and off-site wells were preserved and submitted to a Wisconsin certified laboratory for analysis of volatile organic compounds (VOCs) and select parameters as listed in the WDNR Notice of Noncompliance letter. Attached **Tables 1** through **4** include comprehensive summaries of all water level data, water quality data, groundwater inorganic analytical data and in situ biodegradation parameters collected at the site. The groundwater sampling field logs are included in **Appendix A** and laboratory analytical reports are included in **Appendix B**.

**Source Area Soil Investigation** – The soil investigation program included the installation of 35 Geoprobe soil borings in the southern portion of the landfill property during the spring and summer of 2014 to delineate the vertical and lateral extent of the previously identified soil impacts. The location of the soil borings were selected based on historical soil quality information. Review of the historical data indicates soil and groundwater impacts were identified on the southern half of the property – specifically the southwestern and south central portion of the landfill. Thirty Geoprobe borings were positioned within the southwestern quadrant of the landfill (area bounded by well cluster MW-D/PZ-D/MW-22, MW-E/W-MW-10 and MW-C/PZ-C, **Figure 3**) and five Geoprobe borings were positioned near the south central area (STS Boring B-15, **Figure 3**).

Due to access limitations (dense tree growth and highly uneven terrain) multiple mobilizations with an all-terrain drill rig and earth moving equipment were needed to

create an access road and drill in low swampy areas. Several boring locations encountered buried obstructions and the borings were abandoned and moved to a nearby location to allow better access to deeper zones. A majority of the soil borings were extended from the ground surface to a depth of 12 feet; select borings were extended to a depth of 20 to 24 ft-bgs based on field screening results; six Geoprobe borings were abandoned at a shallower depth due to an obstruction or refusal. Each soil boring was sampled continuously to perform field screening and geologic logging. Each soil sample was field screened using a Photoionization Detector (PID) to scan for the presence of VOCs and visual and textural variations of the sample was noted. Based on the field screening results and visual observations one to four soil samples from each soil boring were preserved for further laboratory analysis. The selected samples were shipped to the project laboratory for VOC analysis using USEPA Method 8260B.

Following completion of the Geoprobe drilling the soil borings were properly abandoned and locations surveyed to update the source area map. Attached **Figure 3** presents the surveyed location of the Geoprobe soil borings. The PID screening results are summarized in **Table 5**, and **Table 6** presents the summary of the laboratory analytical reports. The laboratory analytical reports are included in **Appendix B** and soil boring logs are included in **Appendix C**.

## RESULTS OF THE INVESTIGATION

**Site Geology.** – Shallow surficial soil consists of fill composed of predominantly silty clay/clayey silt with occasional broken glass, wood chips etc. The silty clay fill layer continues to a depth of 16 feet below ground surface (bgs). Occasional sand/silt seams are evident at depth. At several locations buried concrete was encountered between 7-ft and 10-ft bgs. A native sand and gravel zone was encountered at depths between 16 and 24 feet bgs.

The subsurface materials encountered during the 2014 Geoprobe investigation are consistent with the historical information. A review of the historical soil boring logs indicate the presence of silty clay/clayey silt underlain by permeable sand and gravel layer extending from 20 to 45 feet below ground on the southeastern portion of the site and MPS property to the south. Beneath the sand and gravel unit lies a very hard silt and clayey silt “hardpan” unit, which varies in thickness from approximately 7 to 25 feet. **Figure 4** presents a geologic cross-section along a southwest (MW-D/PZ-D) to northeast (MW-C/PZ-C) line in the southwest quadrant of the landfill.

On the southwest portion of the site a fine-grained silty clay was encountered beneath the sand and gravel zone which extends to the bedrock. Bedrock was encountered at approximately 68 feet bgs. The hydrogeologic investigation completed previously further south and east (Sigma report dated February 2001, Figures 4 and 5) indicates the depth of bedrock varies between 40 and 70 feet bgs.

**Groundwater Flow.** – Two rounds of groundwater elevations were measured in accordance with the WDNR October 2013 letter. **Table 3** presents summary of the water



level elevation monitored at the former Whitefish Bay landfill property and properties downgradient of the landfill site (east-southeast locations). During the December 2013 monitoring event several of the shallow monitoring wells were dry due to low groundwater levels. These shallow wells likely represent the perched zone that typically gets recharge from precipitation and snowmelt (see discussion below). During the second round of monitoring (June 2014) Sigma was able to sample all the existing shallow and deep wells except two monitoring wells (MW-E and MPS:MW-2) which continued to be dry.

The groundwater elevation data observed in 2013 and 2014 is used to interpret the subsurface flow. The local groundwater flow system can be interpreted to consist of three general flow regimes which include the shallow flow system which occurs within the near surface silty clay unit; the mid-depth flow system which occurs within the deeper silty sand and gravel unit; and, the deep flow system which occurs within the lower silt-clay "hardpan" and bedrock interface. The direction of groundwater flow in the shallow zone is predominantly to the east-northeast. The shallow groundwater in the silty clay unit is considered perched as it flows to the east. The shallow water table within the landfill property flowing towards Lincoln Creek to the east-northeast is likely sustained by local infiltration of precipitation, rather than groundwater flow from the west.

The mid-depth groundwater flow within the silty sand unit generally occurs to the east-southeast. Further south on the MPS property the mid-depth groundwater flow within the more permeable sand and gravel unit is predominantly to the south and southeast. The direction of deeper groundwater flow within the lower silty clay/bedrock interface zone is also predominantly to the southeast. Attached **Figures 5** through **7** present the groundwater elevation measurements and groundwater flow directions observed at the shallow, mid-depth and deep zone at the site and surrounding properties in June 2014.

**Soil Quality.** – A total of 52 soil samples from 35 soil borings were preserved and submitted to the project laboratory for VOC analysis. A review of the laboratory analytical results and the field PID screening data (**Table 5** and **Table 6**) indicates a positive correlation exists between the qualitative field PID screening results and the quantitative laboratory analysis - a relatively low PID reading indicates the presence of low total VOCs in the sample and vice versa.

Based on a review of the PID readings (**Table 5**) the near surface soil (0' to 2' depth interval) at most of the soil boring locations appear to be relatively clean (PID less than 10 ppm); the corresponding laboratory data for these samples confirmed the results (total VOCs between 2 and 10 ppm). At four soil boring locations (B-6, B-11, B-25 and B-26) PID readings greater than 10 ppm were observed within the near surface soil samples and the corresponding laboratory analytical data confirms the presence of relatively high VOC impacts (**Table 6**). A comparison of the laboratory analytical data with the WDNR Direct Contact RCL for non-industrial properties indicates only two of the surface soil samples (B-6 [0 to 2'] and B-11 [0 to 2']) exceed the Direct-Contact RCL for select chlorinated VOCs.

Relatively low to moderate soil impacts were observed within soil samples from 4-ft to 8-ft bgs at the majority of the Geoprobe soil boring locations (B-1 thru B-5, B-7 thru B-10, B-12 thru B-16, B-18, B-20 thru B-24, B-26, B-27, B-29, and B-30). The laboratory analytical results (**Table 6**) indicates the presence of low to moderate VOCs concentration within the soil samples from these soil borings. Relatively high VOC impacts were identified in soil samples collected at depth (8 to 16-ft depth interval) from the following Geoprobe soil boring locations: B-11 and B-17 thru B-19. Several CVOCs (PCE, TCE, 1,2-Cis-DCE and Vinyl Chloride) were detected at one to two orders-of-magnitude higher than their respective WDNR Groundwater pathway RCL, indicating the potential presence of CVOC source materials. Within these source areas the CVOC concentration appear to decrease with depth indicating the vertical extent of CVOC distribution is limited to 18 to 20 ft-bgs.

Attached **Figure 8A** depicts the distribution of CVOC concentrations detected in soil samples collected in 2014. Based on a review of the soil quality map it is evident that the relatively low soil impacts identified at Geoprobe soil borings B-1, B-7, B-8, B-12, B-15, B-16, B-21 thru B-23, and B-29 generally delineate the highly impacted source areas: a large area at the southwest quadrant with center around B-11 and MW-11 and a smaller area around B-17 located at the north central portion of the site.

Review of the laboratory data also indicates the presence of the petroleum solvents (toluene, ethyl benzene and xylenes) within the soil samples. Attached **Figure 8B** presents the distribution of the petroleum VOC concentrations detected in the soil samples. No benzene was detected above the laboratory detection limit and the distribution of PVOCs are similar to that of the CVOCs – indicating the PVOC impacts originated from the same source areas as that of the CVOCs.

**Groundwater Quality.** – The groundwater quality data, including VOCs, inorganic and field parameters collected during the two rounds of groundwater monitoring events completed in December 2013 and June 2014 are summarized in **Tables 2** through **4**. Historical groundwater quality data are also included in these tables.

A review of the data indicates no petroleum solvents (toluene, ethyl benzene and xylenes) were detected above the laboratory detection limit or groundwater enforcement standards, however, the presence of chlorinated solvent impacts above the groundwater enforcement standards are evident in several of the sample locations. Groundwater samples collected at wells located on the east and north of the site (MW-A/PZ-A, MW-B/PZ-B, W-MW-4S/4D, and MW-6) are clean or exhibit detected concentrations at or below WDNR enforcement standards for chlorinated compounds. Groundwater samples collected from monitoring wells located at the northwest (MW-18) and the east-central portion of the site (W-MW-5S and MW-C/PZ-C) exhibit relatively low CVOCs impacts. Review of the historical data collected over the last 20 years suggests a decreasing trend of both the parent compounds PCE/TCE and the breakdown compounds cis-1,2-DCE and vinyl chloride at these locations. Although the shallow groundwater flow is to the east-

northeast, it is evident that the relatively high groundwater impacts are limited to the southwestern portion of the landfill property and the migration of dissolved CVOCs to the east and north has not occurred. Attached **Figure 9** presents the distribution of CVOCs in groundwater observed at the landfill property during June 2014.

Review of the groundwater data from monitoring well cluster MW-D/MW-22/PZ-D located at the southwest corner of the site indicates the presence of relatively high concentrations of CVOCs in groundwater. Similar groundwater impacts are also evident at two other sampling points (MW-E/MW-10 and MW-11) located in the southwest quadrant. The parent compounds PCE and TCE and the daughter compounds Cis-1,2-DCE and vinyl chloride are present at concentrations several orders-of-magnitude higher than their respective groundwater enforcement standards. The presence of relatively high concentrations of the parent compounds at both the shallow and deep groundwater zones at these locations suggests the presence of source materials in this area (see soil quality discussions). Soil investigation activities completed within this quadrant during spring/summer of 2014 supports the conclusion that CVOC source materials are present predominantly within the southwest corner of the site.

Review of the data also indicates the groundwater quality improves further downgradient (south and southeast) of the landfill property. No parent compounds were detected at off-site downgradient locations and the degree of breakdown compounds also appear to decrease further south from the landfill. The monitoring well nests located in the residential subdivision and the cemetery (MW-8/PZ-8 thru MW-10/P-10) continue to show no groundwater impacts indicating the dissolved plume of the daughter compounds is limited to the south of the MPS property. The absence of parent compounds downgradient of the landfill property also indicates the likely absence of source materials south of the landfill property.

#### **Comparison with Historical Data**

To further assess the historical trends of the groundwater quality several concentration versus time plots were developed for select on- and off-site wells and are included in **Appendix D**. A review of the plots clearly indicates decreasing or stable concentration trends for all four CVOC constituents at a majority of the sample locations with two exceptions. A couple of deep piezometers located on the MPS property (MPS:P-5 and MDS:P-7) show non-stable concentration trends of the daughter compounds.

In addition to the time series plots, two area-wide maps of the distribution of groundwater quality were developed using the groundwater data from 2002 and 2014 monitoring performed within the landfill property and properties surrounding the landfill (Presidio property, MPS property, residential subdivision and the Graceland Cemetery, **Figures 10** and **11**, respectively). Please note, for ease of presentation the data from shallow, mid-depth and deep sampling points are plotted on the same map to depict the well defined groundwater CVOC plume configuration. Based on a review of the plume configurations the following conclusions can be made: a) the groundwater plume is limited to the south of the MPS property; b) no parent compounds were detected south

of the landfill property; c) concentration of the daughter compounds appear to decrease with the increasing distance from the landfill with the exception of two piezometer locations (MPS:P-5 and P-7); and d) the overall configuration of the plume appears to be stable.

## CONCLUSIONS AND RECOMMENDATIONS

The following conclusions can be made based on the data collected to date:

- Areas of relatively high CVOC soil impacts have been identified at two locations at the site: one relatively large area at the southwest quadrant (defined by Geoprobe borings B-11, B-18 and B-19) and one small area at the south central location (B-17).
- The vertical and lateral extent of the two areas of soil impacts appear to be well defined by the soil borings completed in 2014.
- Near surface soil impacts in excess of the WDNR Direct Contact RCL for VOCs were identified only at two locations (B-6 and B-11).
- Relatively high groundwater CVOC impacts are present at the southwest quadrant of the landfill property, and the areas of impact correlate well with the identified source areas.
- Relatively low or non-detect groundwater impacts to the north and east of the landfill property indicates CVOC groundwater plume originates at the southwest quadrant of the landfill and migrating downgradient south of the property.
- The absence of the parent compounds at the downgradient location of the landfill indicates the likely absence of soil impacts south of the landfill.
- The groundwater quality appears to be improving with increasing distance from the landfill with the exception of two locations (MPS:P-5 and P-7). The improvements can likely be attributed to the natural attenuation process ongoing at the site.

The following recommendations should be considered to address the source areas, continue evaluate the groundwater quality trends downgradient of the landfill, and move the site through remediation and case closure:



- Continue semi-annual groundwater monitoring of select sampling points to demonstrate ongoing natural attenuation of the groundwater plume. The following monitoring wells/piezometers should be included for sampling of VOCs, field parameters (water level, DO, REDOX, pH, Temperature and Conductivities) and biodegradation parameters (dissolved gases [methane, ethane and ethene], alkalinity and chloride):

Landfill Property: MW-D/PZ-D/MW-22, MW-E/W-MW-10, W-MW-11, MW-4, W-MW-5S and MW-C/PZ-C

MPS Property: MW-26, MPS:P-1 (replacement well), MPS:P-2, MPS:P-3, MPS:P-4, MPS:P-5, MPS:P-6 and MPS:P-7.

Residential Area: MW-11 and P-11.

- To reduce the potential for direct contact exposure consider placing clean soil cover at the two areas of surface soil impacts (B-6 and B-11).
- Develop a strategy to address the soil and groundwater impacts identified at the southwest quadrant of the site to prevent continued release of CVOC constituents to the groundwater and off-site migration of the plume.

Please do not hesitate to call either of the undersigned at 414-643-4125 if you have any questions or would like to discuss the report.

Sincerely,

**THE SIGMA GROUP, INC.**



Mafizul Islam, P.E.  
Senior Project Engineer



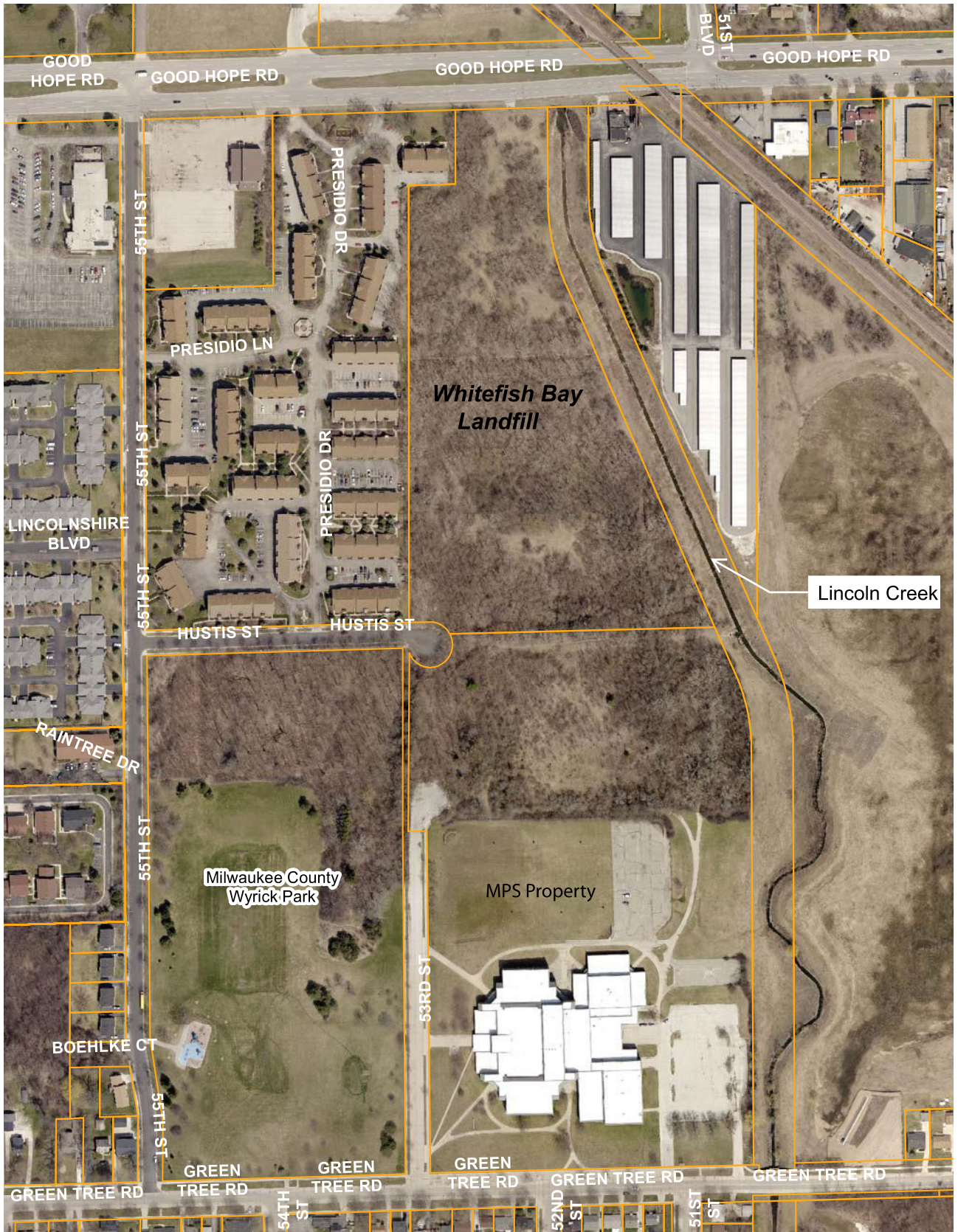
Randy E. Boness, P.G.  
Geoscience Group Manager

/attachments

cc: Steven Sheiffer / Village of Whitefish Bay

## **ATTACHMENTS**

## FIGURES



Date: XX/XX/XXXX

Created By: MI




Filename: I:\Whitefish Bay\14411\Figure\WFB SITE PLAN

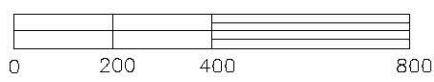
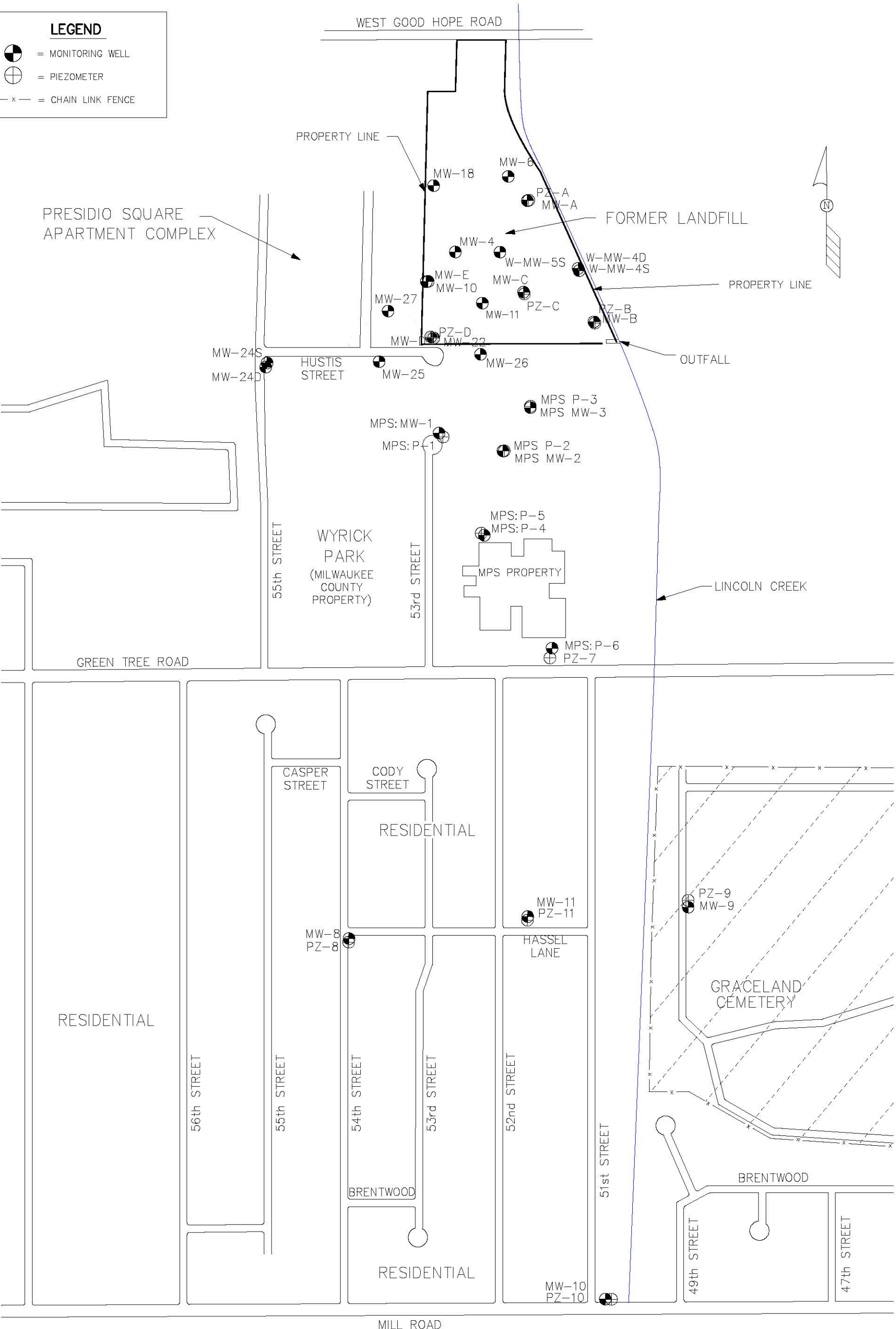
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Project: 14411



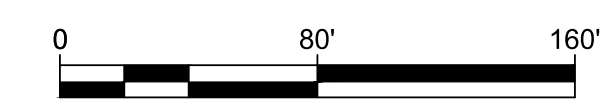
**LEGEND**

-  = MONITORING WELL
-  = PIEZOMETER
-  = CHAIN LINK FENCE




NOTES:  
 1. BOUNDARIES ARE APPROXIMATE.  
 2. THIS MAP WAS DEVELOPED FROM A MILWAUKEE COUNTY MAP, THIENSVILLE QUADRANGLE TOPOGRAPHIC MAP, AND SURVEY DATA.

<b>VILLAGE OF WHITEFISH BAY LANDFILL</b>		 THE SIGMA GROUP, INC.
MILWAUKEE, WI		
DATE: 01-19-15	DR. BY: NKB	DR.# 3125-149
<b>MONITORING WELL AND PIEZOMETER LOCATIONS</b>		<b>FIGURE 2</b>



Legend	
● B12	= SIGMA GEOPROBE (2014)
⊕ B-21	= STS SOIL BORING (1992)
● MW-C	= STS SOIL BORING/ MONITORING WELL (1992)



<b>FORMER DEMOLITION LANDFILL WHITEFISH BAY, WISCONSIN</b>			 www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 Phone: 414-643-4200 Fax: 414-643-4210
DATE: 7-1-2014	DRW: AEK	SCALE: 1" = 80'	
<b>LANDFILL BORINGS</b>			<b>FIGURE 3</b>

SUBJECT PROPERTY

PRESIDIO SQUARE APARTMENTS

W. HUSTIS ST.

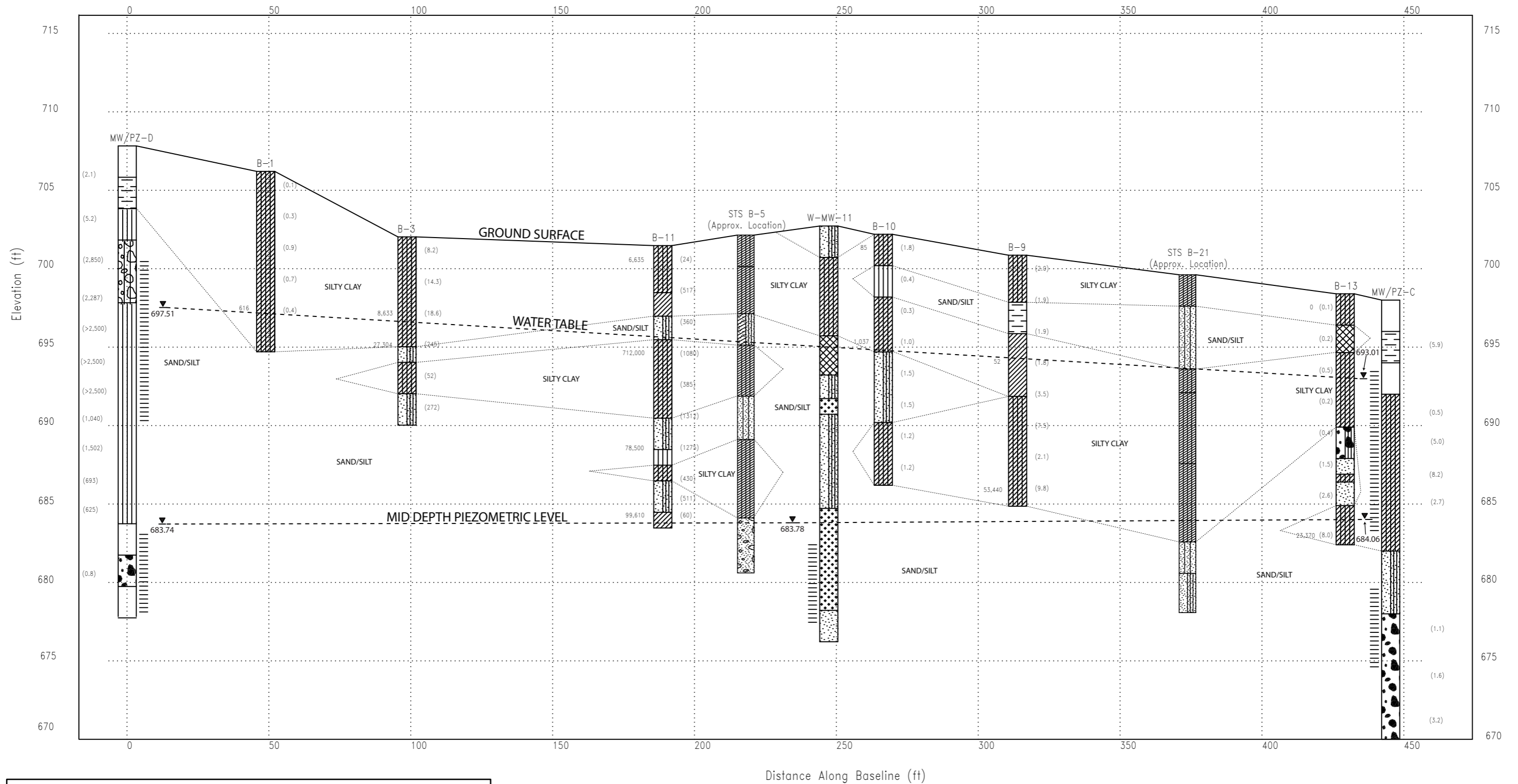
MILWAUKEE  
PUBLIC SCHOOL  
PROPERTY

SITE BENCHMARK  
SCRIBED CROSS ON BOLT  
TOP OF OUTFALL  
ELEV = 691.87

OUTFALL  
IE = 667.62

A (SOUTHWEST)

(NORTHEAST) A'



Project: 13904  
 Directory: GRAPHICS  
 Filename: 13904\_CROSS SECTIONS  
 Created By: DJS  
 Date: 06/29/14

**SUBSURFACE DIAGRAM**

USCS Low Plasticity Silty Clay	USCS Silt	USCS Poorly-graded Sand with Silt
USCS Low Plasticity Clay	Fill (made ground)	USCS Well-graded Gravel with Silt
USCS Poorly-graded Sand	USCS Low Plasticity Organic silt or clay	USCS Well-graded Gravel
USCS Silty Gravel	USCS Well-graded Sand	

(1312) = PID in ppm  
 78,500 = Total CVOCs in ppb

Note: Water levels shown for 6/23/14 - 6/26/14 groundwater sampling event.

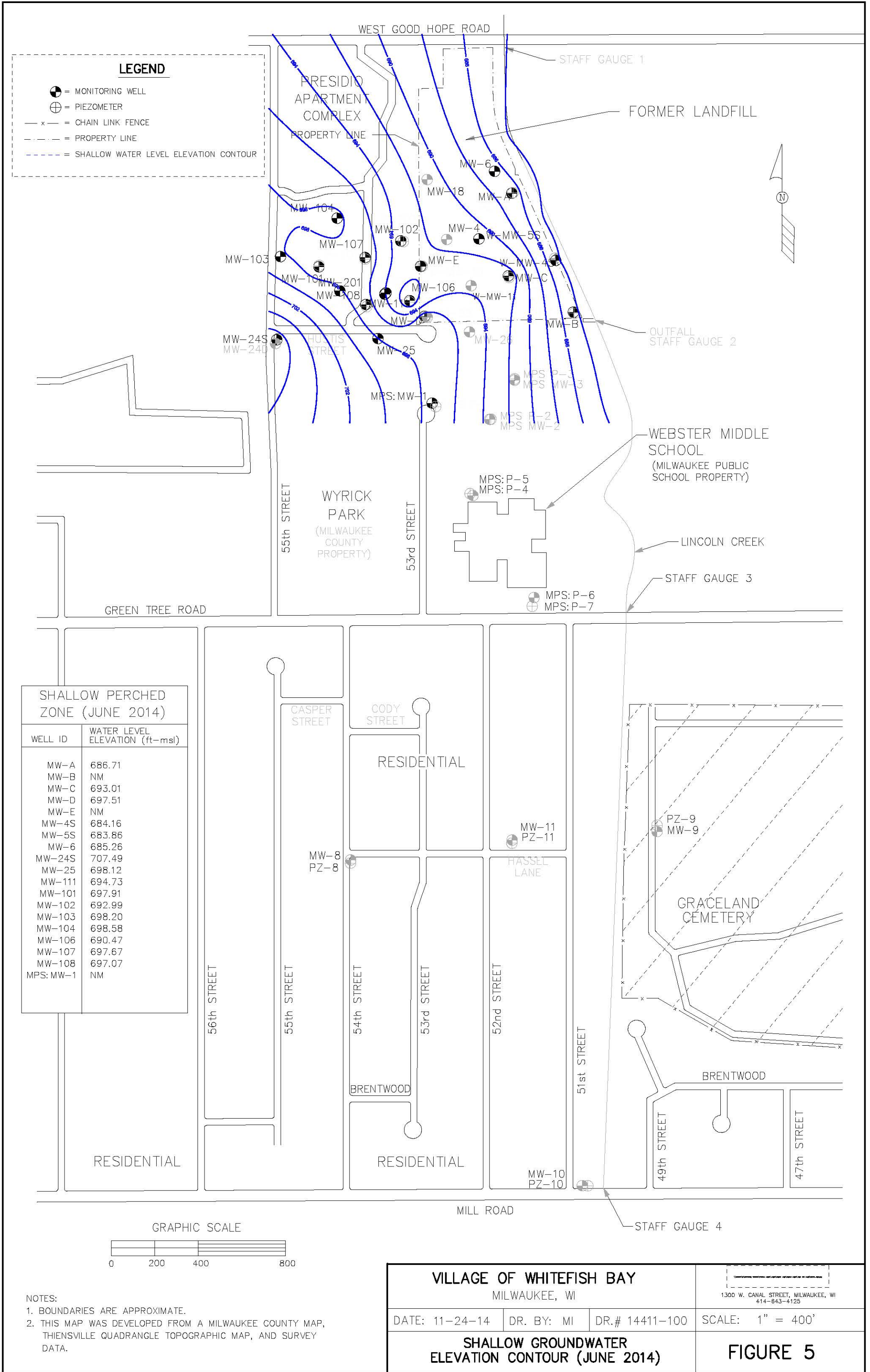
Single Source. Sound Solutions. GROUP

**GEOLOGIC CROSS SECTION A - A'**

GOOD HOPE ROAD LANDFILL  
 5201 W. GOOD HOPE ROAD, MILWAUKEE, WISCONSIN

**FIGURE**

**4**



**LEGEND**

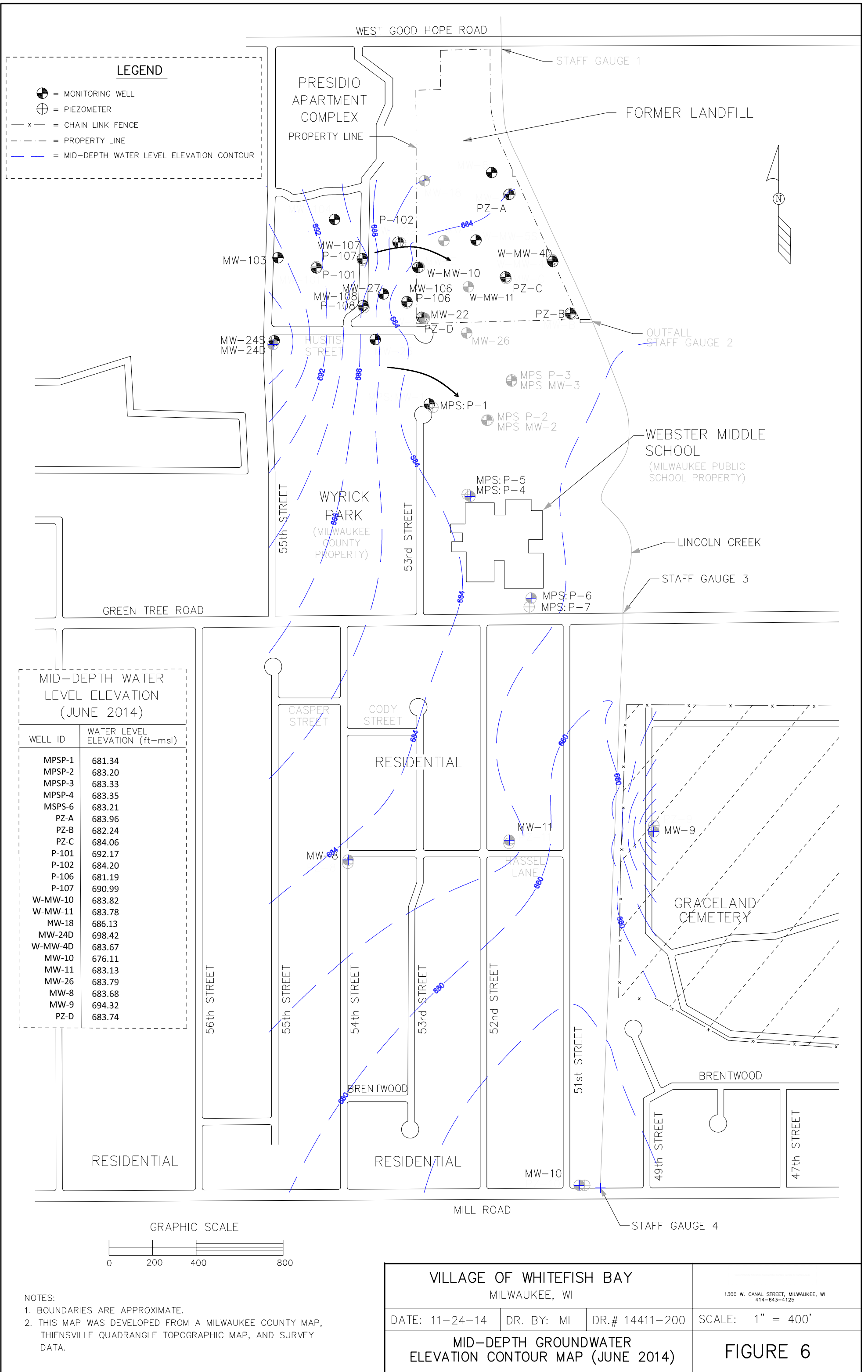
- = MONITORING WELL
- ⊕ = PIEZOMETER
- x - = CHAIN LINK FENCE
- - - = PROPERTY LINE
- - - = SHALLOW WATER LEVEL ELEVATION CONTOUR

SHALLOW PERCHED ZONE (JUNE 2014)	
WELL ID	WATER LEVEL ELEVATION (ft-msl)
MW-A	686.71
MW-B	NM
MW-C	693.01
MW-D	697.51
MW-E	NM
MW-4S	684.16
MW-5S	683.86
MW-6	685.26
MW-24S	707.49
MW-25	698.12
MW-111	694.73
MW-101	697.91
MW-102	692.99
MW-103	698.20
MW-104	698.58
MW-106	690.47
MW-107	697.67
MW-108	697.07
MPS: MW-1	NM

NOTES:  
 1. BOUNDARIES ARE APPROXIMATE.  
 2. THIS MAP WAS DEVELOPED FROM A MILWAUKEE COUNTY MAP, THIENSVILLE QUADRANGLE TOPOGRAPHIC MAP, AND SURVEY DATA.

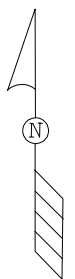
<b>VILLAGE OF WHITEFISH BAY</b> MILWAUKEE, WI			1300 W. CANAL STREET, MILWAUKEE, WI 414-643-4125
DATE: 11-24-14	DR. BY: MI	DR.# 14411-100	SCALE: 1" = 400'
<b>SHALLOW GROUNDWATER ELEVATION CONTOUR (JUNE 2014)</b>			<b>FIGURE 5</b>





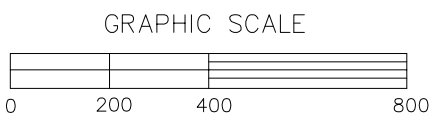
**LEGEND**

- ⊕ = MONITORING WELL
- ⊕ = PIEZOMETER
- x - = CHAIN LINK FENCE
- - - = PROPERTY LINE
- - - = MID-DEPTH WATER LEVEL ELEVATION CONTOUR



MID-DEPTH WATER LEVEL ELEVATION (JUNE 2014)






WELL ID	WATER LEVEL ELEVATION (ft-msl)
MPSP-1	681.34
MPSP-2	683.20
MPSP-3	683.33
MPSP-4	683.35
MSPS-6	683.21
PZ-A	683.96
PZ-B	682.24
PZ-C	684.06
P-101	692.17
P-102	684.20
P-106	681.19
P-107	690.99
W-MW-10	683.82
W-MW-11	683.78
MW-18	686.13
MW-24D	698.42
W-MW-4D	683.67
MW-10	676.11
MW-11	683.13
MW-26	683.79
MW-8	683.68
MW-9	694.32
PZ-D	683.74

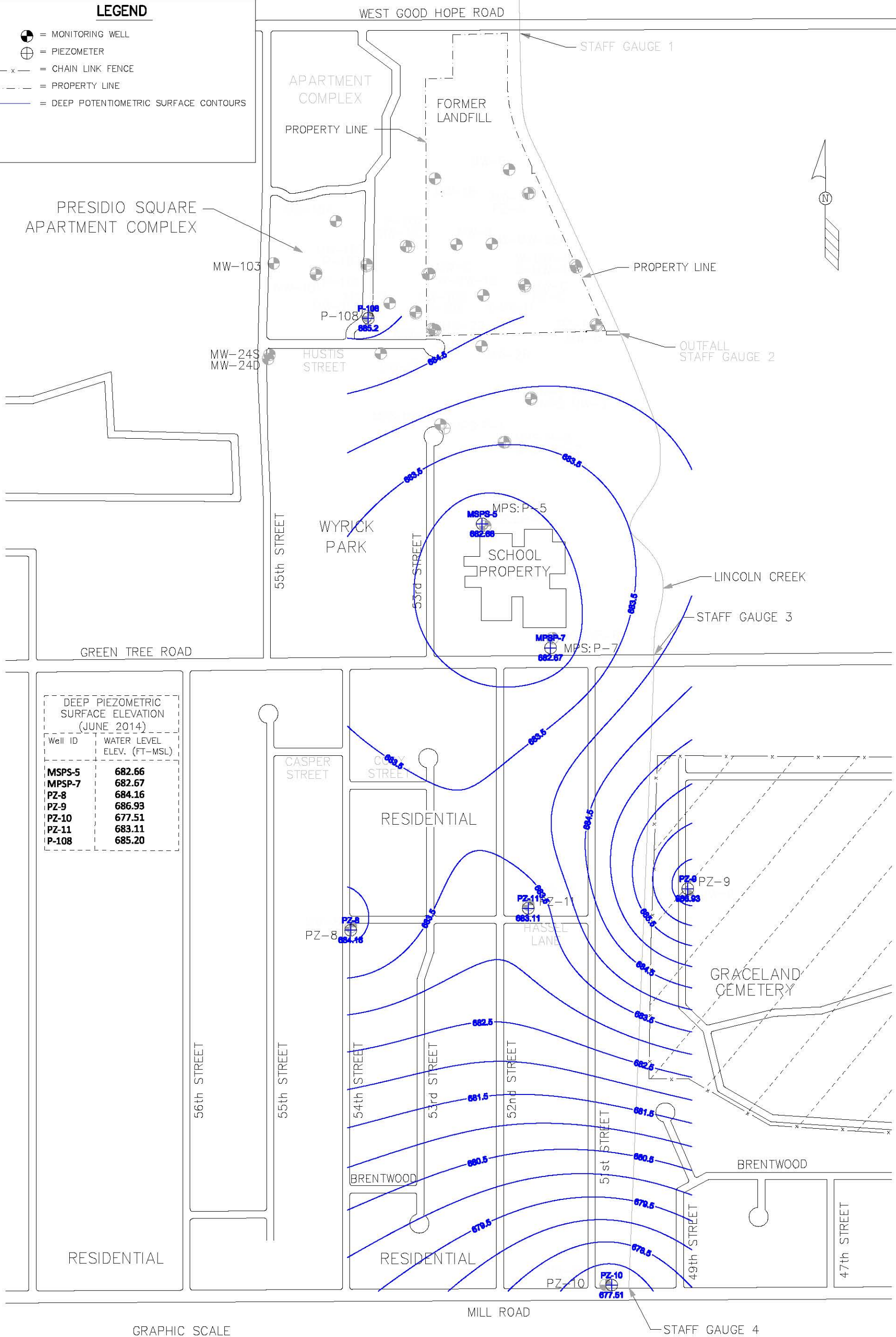


NOTES:  
 1. BOUNDARIES ARE APPROXIMATE.  
 2. THIS MAP WAS DEVELOPED FROM A MILWAUKEE COUNTY MAP, THIENSVILLE QUADRANGLE TOPOGRAPHIC MAP, AND SURVEY DATA.

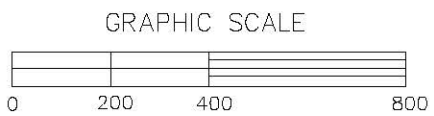
<b>VILLAGE OF WHITEFISH BAY</b> MILWAUKEE, WI			1300 W. CANAL STREET, MILWAUKEE, WI 414-643-4125
DATE: 11-24-14	DR. BY: MI	DR.# 14411-200	SCALE: 1" = 400'
<b>MID-DEPTH GROUNDWATER ELEVATION CONTOUR MAP (JUNE 2014)</b>			<b>FIGURE 6</b>

**LEGEND**

-  = MONITORING WELL
-  = PIEZOMETER
-  = CHAIN LINK FENCE
-  = PROPERTY LINE
-  = DEEP POTENTIOMETRIC SURFACE CONTOURS



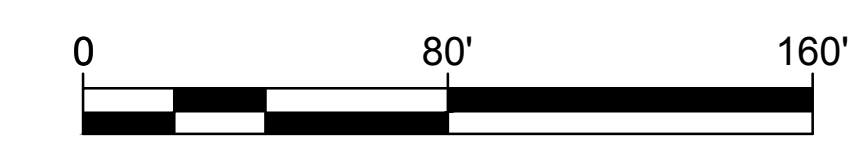
DEEP PIEZOMETRIC SURFACE ELEVATION (JUNE 2014)	
Well ID	WATER LEVEL ELEV. (FT-MSL)
MSPS-5	682.66
MPSP-7	682.67
PZ-8	684.16
PZ-9	686.93
PZ-10	677.51
PZ-11	683.11
P-108	685.20



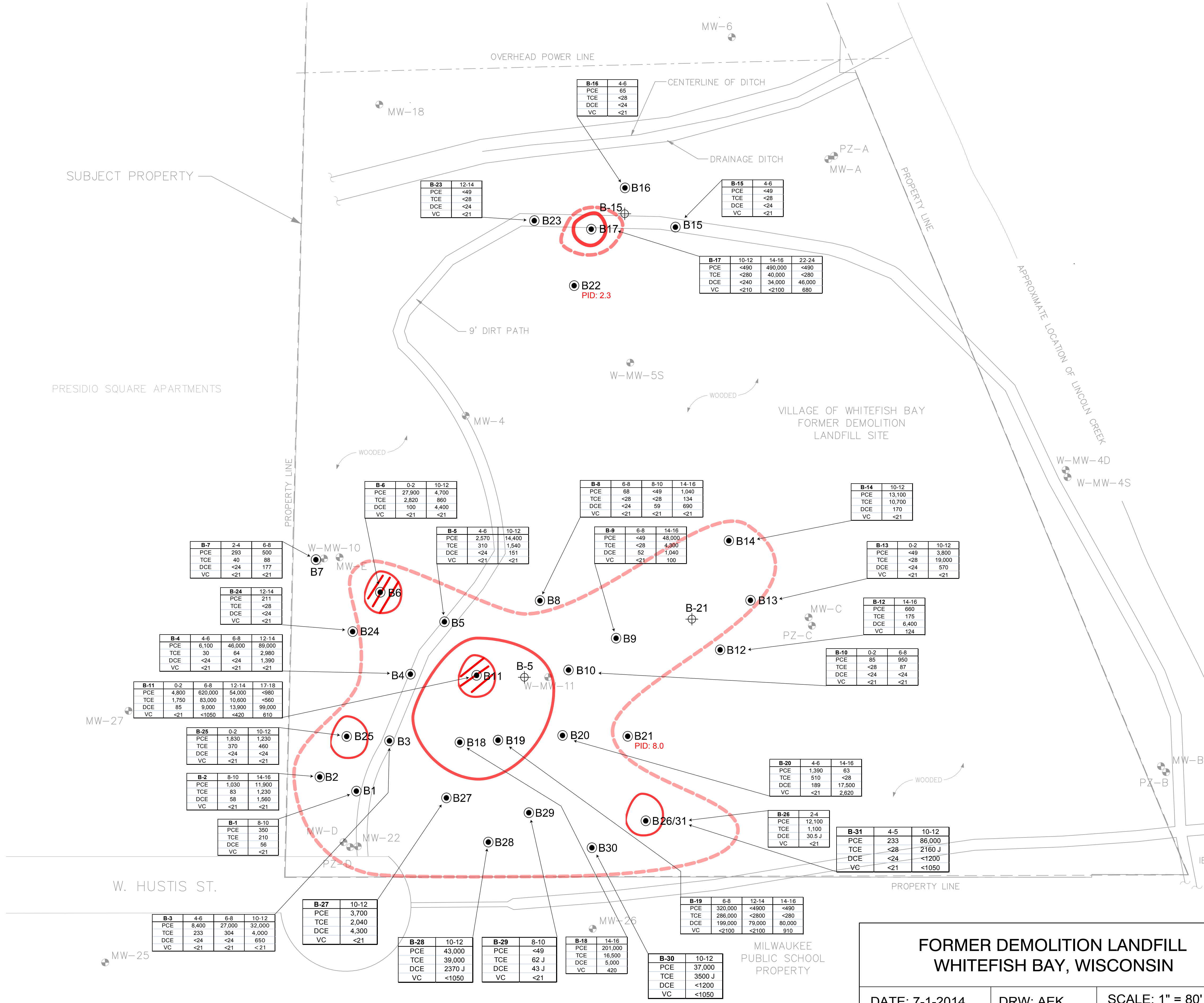
NOTES:  
 1. BOUNDARIES ARE APPROXIMATE.  
 2. THIS MAP WAS DEVELOPED FROM A MILWAUKEE COUNTY MAP, THIENSVILLE QUADRANGLE TOPOGRAPHIC MAP, AND SURVEY DATA.

<b>VILLAGE OF WHITEFISH BAY</b>			1300 W. CANAL STREET MILWAUKEE, WISCONSIN
DATE: 03-12-14	DR. BY: MI	DR.# 14411-003	SCALE: 1" = 400'
<b>DEEP PIEZOMETRIC SURFACE CONTOUR</b>			<b>FIGURE 7</b>
<b>JUNE 2014</b>			

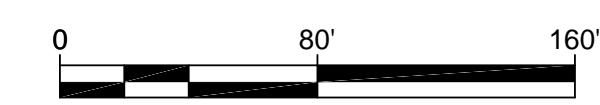




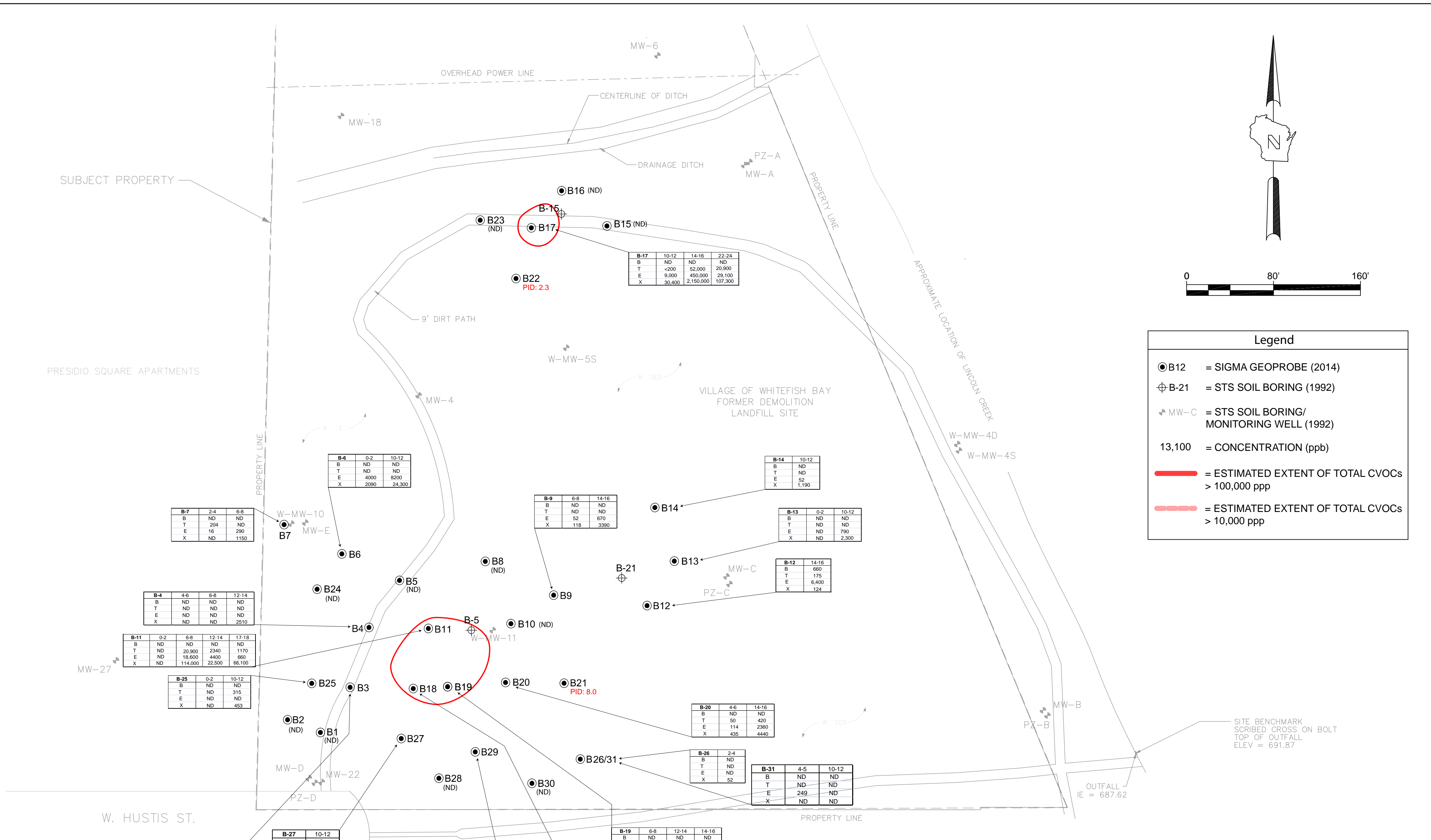
Legend	
● B12	= SIGMA GEOPROBE (2014)
⊕ B-21	= STS SOIL BORING (1992)
⊕ MW-C	= STS SOIL BORING/ MONITORING WELL (1992)
13,100	= CONCENTRATION (ppb)
	= ESTIMATED EXTENT OF TOTAL CVOCs > 100,000 ppb
	= ESTIMATED EXTENT OF TOTAL CVOCs > 10,000 ppb
	= SHALLOW SOIL CVOCs IMPACTS - WITHIN DIRECT CONTACT RCLs
	= SHALLOW SOIL IMPACTS



<b>FORMER DEMOLITION LANDFILL WHITEFISH BAY, WISCONSIN</b>			 www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 Phone: 414-643-4200 Fax: 414-643-4210
DATE: 7-1-2014	DRW: AEK	SCALE: 1" = 80'	
<b>SOIL QUALITY MAP - CVOCs</b>			<b>FIGURE 8A</b>



Legend	
● B12	= SIGMA GEOPROBE (2014)
⊕ B-21	= STS SOIL BORING (1992)
⚡ MW-C	= STS SOIL BORING/ MONITORING WELL (1992)
13,100	= CONCENTRATION (ppb)
<span style="color: red;">———</span>	= ESTIMATED EXTENT OF TOTAL CVOCs > 100,000 ppp
<span style="color: red;">- - - -</span>	= ESTIMATED EXTENT OF TOTAL CVOCs > 10,000 ppp



B-6			
	0-2	10-12	
B	ND	ND	
T	ND	ND	
E	4000	8200	
X	2090	24,300	

B-17			
	10-12	14-16	22-24
B	ND	ND	ND
T	<200	52,000	20,900
E	9,000	450,000	28,100
X	30,400	2,150,000	107,300

B-11				
	0-2	6-8	12-14	17-18
B	ND	ND	ND	ND
T	ND	20,900	2340	1170
E	ND	18,600	4400	660
X	ND	114,000	22,500	66,100

B-25			
	0-2	10-12	
B	ND	ND	
T	ND	315	
E	ND	ND	
X	ND	453	

B-3				
	4-6	6-8	10-12	
B	ND	ND	ND	
T	ND	ND	ND	
E	ND	ND	132	
X	ND	ND	710	

B-27	
	10-12
B	ND
T	ND
E	210
X	227

B-29	
	8-10
B	ND
T	ND
E	5100
X	10,300

B-18	
	14-16
B	ND
T	ND
E	ND
X	944

B-19			
	6-8	12-14	14-16
B	ND	ND	ND
T	57,000	5200	4200
E	39,000	2570	3400
X	184,000	16,600	13,300

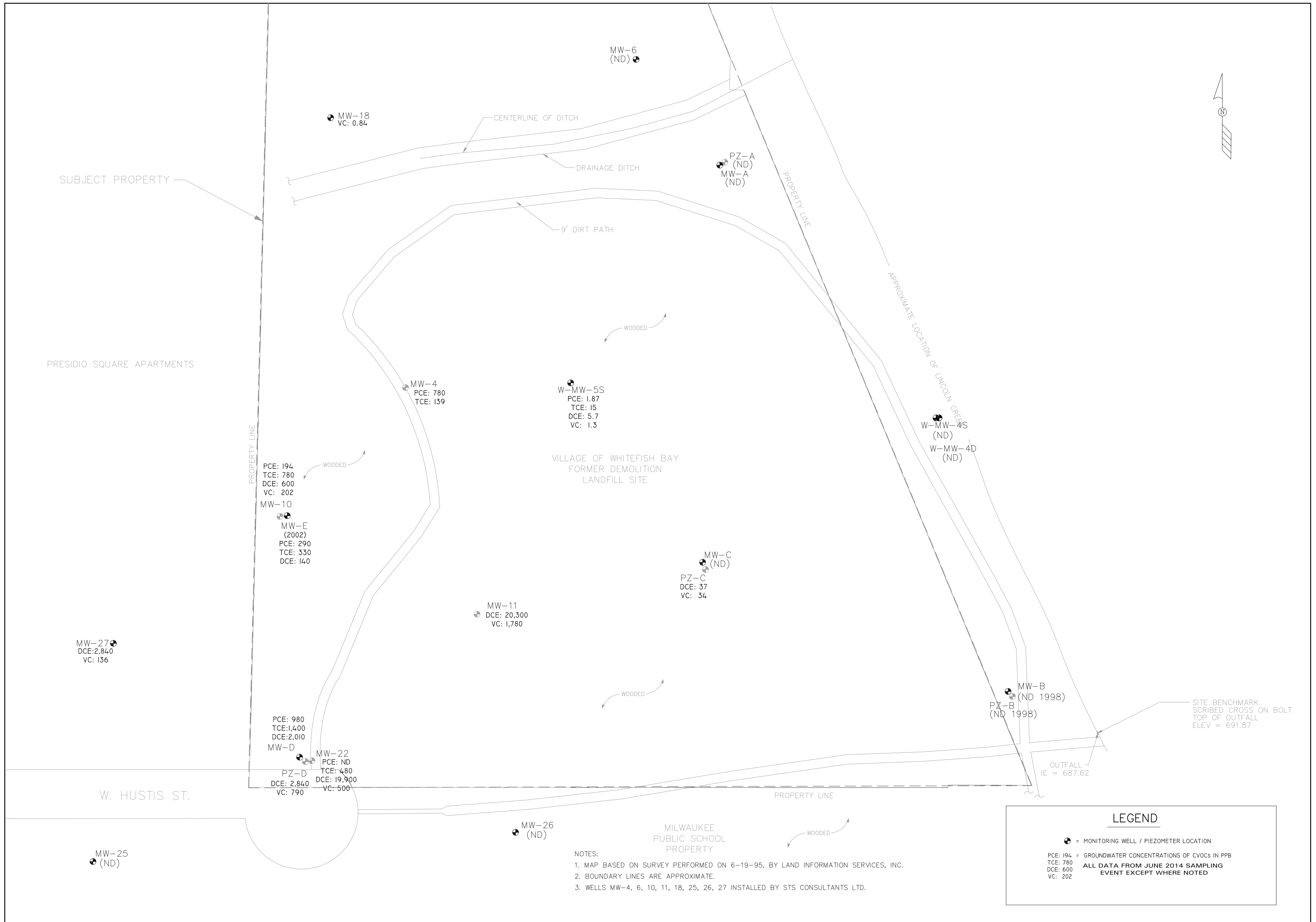
B-20		
	4-6	14-16
B	ND	ND
T	50	420
E	114	2360
X	435	4440

B-26	
	2-4
B	ND
T	ND
E	ND
X	52

B-31			
	4-6	10-12	
B	ND	ND	
T	ND	ND	
E	249	ND	
X	ND	ND	

<b>FORMER DEMOLITION LANDFILL WHITEFISH BAY, WISCONSIN</b>			<p>www.thesigmagroup.com 1300 West Canal Street Milwaukee, WI 53233 Phone: 414-643-4200 Fax: 414-643-4210</p>
DATE: 7-1-2014	DRW: AEK	SCALE: 1" = 80'	
<b>SOIL QUALITY MAP - PVOCs</b>			<b>FIGURE 8B</b>





**THE SIGMA GROUP**  
*Single Source, Sound Solutions.*

THE SIGMA GROUP, INC.  
 1300 W. CANAL STREET  
 MILWAUKEE, WI 53233  
 414-643-4200

SCALE - 1" = 60'- 0"

NO	DATE	REVISIONS	BY	APVD

NAME:	DATE:
DRAWN BY: TMM	01-19-15
DESIGNED BY:	
CHECKED BY:	MI
APPROVED BY:	

VILLAGE OF WHITEFISH BAY - FORMER DEMOLITION LANDFILL SITE  
 5201 WEST GOOD HOPE ROAD, MILWAUKEE, WI.  
 GROUNDWATER QUALITY DISTRIBUTION MAP  
 JUNE 2014

DRAWING NUMBER  
 3125-024

FIGURE 9







## TABLES

Table 1  
 Static Groundwater Level Data  
 Village of Whitefish Bay - Former Good Hope Road Landfill Site  
 Sigma Project No. 3125

Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date						
MW-A	VN630	697.36	16.4	10.0	690.96	11.89	685.47	06/19/97						
						11.27	686.09	07/21/97						
						10.10	687.26	03/27/98						
						11.19	686.17	04/29/98						
						12.99	684.37	07/15/98						
						9.62	687.74	08/18/98						
						DRY	DRY	06/26/02						
Well found obstructed at 10.90 ft on 7/21/06														
			11.0			DRY	DRY	12/05/13						
						DRY	DRY	12/18/13						
						10.65	686.71	06/23/14						
PZ-A	VN631	697.20	22.0	3.0	678.20	13.20	684.00	06/19/97						
						12.38	684.82	07/21/97						
						12.25	684.95	03/27/98						
						11.21	685.99	04/29/98						
						14.06	683.14	07/15/98						
						12.58	684.62	08/18/98						
						13.78	683.42	06/26/02						
						15.35	681.85	07/21/06						
						16.24	680.96	12/05/13						
						16.33	680.87	12/18/13						
						13.24	683.96	06/23/14						
MW-B	---	693.04	15.6	10.0	687.44	8.05	684.99	06/19/97						
						7.80	685.24	07/21/97						
						5.79	687.25	03/27/98						
						5.38	687.66	04/29/98						
						8.22	684.82	07/15/98						
						7.85	685.19	08/18/98						
						10.41	683.22	06/26/02						
(see note 1)		693.63	16.2	10.0	687.48	10.41	683.22	06/26/02						
Well found vandalized and filled w/ debris. Abandoned on 7/21/06														
PZ-B	---	692.61	25.3	5.0	672.31	8.65	683.96	06/19/97						
						7.87	684.74	07/21/97						
						7.77	684.84	03/27/98						
						6.97	685.64	04/29/98						
						9.63	682.98	07/15/98						
						8.09	684.52	08/18/98						
						9.20	683.41	06/26/02						
						10.37	682.24	07/21/06						
								692.41	24.8	5.0	672.66	9.20	683.41	06/26/02
												10.37	682.24	07/21/06
Well found vandalized and filled w/ debris. Abandoned on 12/04/13														
MW-C	VN615	700.24	17.0	10.0	693.24	15.78	684.46	06/19/97						
						11.97	688.27	07/21/97						
						10.22	690.02	03/27/98						
						9.29	690.95	04/30/98						
						16.50	683.74	07/15/98						
						10.02	690.22	08/18/98						
						13.42	686.82	06/26/02						
						16.55	683.69	07/17/06						
						DRY	DRY	12/05/13						
						DRY	DRY	12/18/13						
						7.23	693.01	06/25/14						
						PZ-C	VN616	700.45	28.4	5.0	677.05	16.41	684.04	06/19/97
												15.64	684.81	07/21/97
15.53	684.92	03/27/98												
14.74	685.71	04/30/98												
17.40	683.05	07/15/98												
15.86	684.59	08/18/98												
16.99	683.46	06/26/02												
18.53	681.92	07/17/06												
19.51	680.94	12/05/13												
19.61	680.84	12/18/13												
16.39	684.06	06/25/14												
		700.45	25.9	5.0	679.55			16.99	683.46	06/26/02				
								18.53	681.92	07/17/06				
						19.51	680.94	12/05/13						
						19.61	680.84	12/18/13						
						16.39	684.06	06/25/14						



Table 1  
 Static Groundwater Level Data  
 Village of Whitefish Bay - Former Good Hope Road Landfill Site  
 Sigma Project No. 3125

Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date											
MW-D	VN617	709.20	19.1	10.0	700.10	14.20	695.00	06/19/97											
						13.16	696.04	07/21/97											
						12.78	696.42	03/27/98											
						15.01	694.19	07/15/98											
						13.48	695.72	08/18/98											
						13.65	695.55	06/26/02											
		709.20	19.2	10.0	700.00	13.74	695.46	07/17/06											
						18.94	690.26	12/05/13											
						DRY	DRY	12/18/13											
						11.69	697.51	06/23/14											
						PZ-D	VN618	709.17	31.3	5.0	682.87	25.23	683.94	06/19/97					
												24.45	684.72	07/21/97					
												24.33	684.84	03/27/98					
												26.22	682.95	07/15/98					
24.70	684.47	08/18/98																	
25.75	683.42	06/26/02																	
709.17	31.5	5.0	682.72	27.35	681.82			07/17/06											
				28.38	680.79			12/05/13											
				28.46	680.71			12/19/13											
				25.43	683.74			06/23/14											
				25.43	683.74			06/23/14											
				MW-E	VN619			708.68	18.6	10.0	700.08	12.90	685.52	06/19/97					
												12.20	686.22	07/21/97					
												11.33	697.35	03/27/98					
15.37	693.31	07/15/98																	
13.18	695.50	08/18/98																	
12.68	696.00	06/26/02																	
18.10	DRY	DRY	DRY			DRY	18.10					690.58	07/21/06						
							DRY					DRY	12/05/13						
							DRY					DRY	12/19/13						
							DRY					DRY	06/23/14						
							MW-4					VM609	698.42	20.7	5.0	682.77	13.15	685.27	06/07/96
																	16.10	682.32	01/06/97
																	14.40	684.02	06/19/97
																	13.51	684.91	03/27/98
15.38	683.04	07/15/98																	
13.86	684.56	08/18/98																	
14.93	683.49	681.80	681.80	681.80	14.93	683.49		06/26/02											
					16.62	681.80		07/21/06											
					UNABLE TO LOCATE 12/04/13														
										14.54	683.88						6/23/2014		
					MW-6	VN614		703.30	22.3	5.0	686.00						18.42	684.88	06/19/97
																	17.40	685.90	07/21/97
																	17.11	686.19	03/27/98
																	15.86	687.44	04/30/98
19.57	683.73	07/15/98																	
17.27	686.03	08/18/98																	
703.30	22.0	5.0	686.30	18.90			684.40	06/26/02											
				20.88			682.42	07/21/06											
				DRY			DRY	12/18/13											
				18.04			685.26	06/23/14											
				W-MW-10			VN632	708.69	30.4	5.0	683.29	23.44	685.25	06/07/96					
												26.37	682.32	01/06/97					
												24.70	683.99	06/19/97					
												23.81	684.88	03/27/98					
25.68	683.01	07/15/98																	
24.15	684.54	08/18/98																	
25.22	683.47	681.77	681.77		681.77	25.22						683.47	06/26/02						
						26.92						681.77	07/21/06						
						27.82						680.87	12/05/13						
						27.93						680.76	12/19/13						
						24.87						683.82	06/23/14						

Table 1  
 Static Groundwater Level Data  
 Village of Whitefish Bay - Former Good Hope Road Landfill Site  
 Sigma Project No. 3125

Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date
W-MW-11	VN633	705.29	27.9	5.0	682.44	20.78	684.51	06/07/96
						23.00	682.29	01/06/97
						21.31	683.98	06/19/97
						20.44	684.85	03/27/98
						22.30	682.99	07/15/98
						20.78	684.51	08/18/98
						21.86	683.43	06/26/02
						15.18	690.11	07/21/06
						24.55	680.74	12/18/13
						21.51	683.78	06/23/14
MW-18	VN634	703.65	27.5	10.0	686.19	16.42	687.23	06/07/96
						21.36	682.29	01/06/97
						19.51	684.14	06/19/97
						17.60	686.05	03/27/98
						20.52	683.13	07/15/98
						17.47	686.18	08/18/98
						NM	NM	06/26/02
						21.75	681.90	07/21/06
						22.66	680.99	12/05/13
						22.75	680.90	12/18/13
17.52	686.13	06/23/14						
MW-22	VN635	709.47	32.5	10.0	687.02	24.31	685.16	06/07/96
						25.57	683.90	06/19/97
						24.68	684.79	03/27/98
						26.54	682.93	07/15/98
						25.02	684.45	08/18/98
		709.47	27.0	10.0	692.52	26.07	683.40	06/26/02
			31.7			27.65	681.82	07/17/06
			28.7			28.40	681.07	12/05/13
						DRY	DRY	12/18/13
						25.72	683.75	06/23/14
MW-25	VN638	705.48	21.8	10.0	693.64	10.54	694.94	06/07/96
						12.16	693.32	01/06/97
						11.59	693.89	06/19/97
						10.86	694.62	03/27/98
						12.30	693.18	07/15/98
						11.43	694.05	08/18/98
						11.25	694.23	06/26/02
						14.75	690.73	12/17/13
MW-26	VN639	702.47	24.1	10.0	688.39	17.33	685.14	06/07/96
						20.25	682.22	01/06/97
						18.57	683.90	06/19/97
						17.82	684.65	07/21/97
						17.69	684.78	03/27/98
						19.55	682.92	07/15/98
						18.03	684.44	08/18/98
						19.09	683.38	06/26/02
						20.79	681.68	07/21/06
						21.70	680.77	12/05/13
						21.79	680.68	12/18/13
18.68	683.79	06/23/14						

Table 1  
 Static Groundwater Level Data  
 Village of Whitefish Bay - Former Good Hope Road Landfill Site  
 Sigma Project No. 3125

Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date
W-MW-4S	VN640	696.64	18.1	10.0	688.54	8.72	687.92	05/13/98
						10.28	686.36	07/15/98
		695.93	17.9	10.0	688.08	12.53	683.40	06/26/02
						15.25	680.68	12/05/13
						15.33	680.60	12/18/13
					11.77	684.16	06/23/14	
W-MW-4D	VN641	695.63	22.8	5.0	677.83	11.90	683.73	05/12/98
						14.10	681.53	07/15/98
		696.92	22.6	5.0	679.37	13.69	683.23	06/26/02
						16.23	680.69	12/05/13
						16.32	680.60	12/18/13
					13.25	683.67	06/23/14	
W-MW-5S		696.48	16.4	10.0	690.08	11.38	685.10	05/12/98
						13.94	682.54	07/15/98
		696.73	17.3	10.0	689.43	13.30	683.18	06/26/02
						16.08	680.65	12/05/13
						16.15	680.58	12/18/13
					12.87	683.86	06/25/14	
MPS: MW-1	VN643	708.95	18.2	10.0	700.75	9.41	699.54	08/18/98
						8.92	700.03	08/19/98
						9.45	699.50	08/26/98
						9.13	699.82	12/08/00
						9.12	699.83	01/12/01
						7.93	701.02	06/26/02
						14.54	694.41	07/17/06
UNABLE TO LOCATE/DESTROYED 12/04/13								
MPS: P-1	VN644	708.99	32.3	5.0	681.69	24.04	684.95	08/18/98
						25.08	683.91	08/19/98
						25.33	683.66	08/26/98
						27.49	681.50	01/21/99
						27.13	681.86	12/08/00
						27.36	681.63	01/12/01
						26.03	682.96	06/26/02
						27.65	681.34	07/17/06
UNABLE TO LOCATE/DESTROYED 12/04/13								
MPS: MW-2	VN645	703.42	17.8	10.0	695.62	DRY	DRY	08/18/98
						DRY	DRY	08/19/98
						DRY	DRY	08/26/98
						16.96	686.46	01/12/01
						16.92	686.50	06/26/02
						17.11	686.31	07/17/06
						DRY	DRY	12/05/13
						DRY	DRY	12/18/13
				DRY	DRY	06/23/14		
MPS: P-2	VN646	703.58	33.4	5.0	675.18	19.63	683.95	08/18/98
						19.68	683.90	08/19/98
						19.91	683.67	08/26/98
						22.09	681.49	01/21/99
						21.98	681.60	01/12/01
						20.65	682.93	06/26/02
						22.27	681.31	07/17/06
						23.29	680.29	12/05/13
						23.38	680.20	12/18/13
						20.38	683.20	06/23/14

Table 1  
 Static Groundwater Level Data  
 Village of Whitefish Bay - Former Good Hope Road Landfill Site  
 Sigma Project No. 3125

Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date
MPS: MW-3	VN642	696.41	11.0	6.0	691.41	10.73	685.68	08/18/98
						10.82	685.59	08/19/98
						DRY	DRY	08/26/98
						DRY	DRY	01/12/01
						DRY	DRY	06/26/02
						DRY	DRY	12/18/13
						3.25	693.16	06/23/14
MPS: P-3	VN648	696.58	31.1	5.0	670.48	12.58	684.00	08/18/98
						12.64	683.94	08/19/98
						12.90	683.68	08/26/98
						15.06	681.52	01/21/99
						14.94	681.64	01/12/01
						13.63	682.95	06/26/02
						16.34	680.24	12/18/13
						13.25	683.33	06/23/14
MPS: P-4	VN649	703.01	32.45	5.0	675.56	19.42	683.59	01/18/99
						21.23	681.78	12/08/00
						21.47	681.54	01/12/01
						20.12	683.08	06/26/02
		703.20	32.3	5.0	675.95	21.75	681.45	07/17/06
						22.79	680.41	12/05/13
						22.86	680.34	12/17/13
						19.85	683.35	06/23/14
MPS: P-5	VN660	703.12	75.7	5.0	632.42	19.55	683.57	01/25/99
						21.04	682.08	12/08/00
						21.43	681.69	01/12/01
						20.37	682.93	06/26/02
		703.30	75.9	5.0	632.40	23.70	679.60	07/17/06
						23.35	679.95	12/05/13
						23.38	679.92	12/17/13
						20.64	682.66	06/23/14
MPS: P-6	VN661	693.22	19.9	5.0	678.32	9.75	683.47	02/13/99
						11.50	681.80	12/07/00
		693.30	19.9	5.0	678.47	11.79	681.51	01/12/01
						10.44	682.88	06/26/02
		693.32	19.9	5.0	678.47	14.00	679.32	10/02/03
						12.07	681.25	07/17/06
						13.15	680.17	12/05/13
						13.20	680.12	12/17/13
						10.11	683.21	06/24/14
MPS: P-7	VN662	693.04	41.9	5.0	656.14	10.97	682.07	12/07/00
						11.20	681.84	01/12/01
						10.21	682.83	06/26/02
						15.36	677.68	10/02/03
						14.30	678.74	07/17/06
						13.38	679.66	12/05/13
						13.49	679.55	12/17/13
						10.37	682.67	06/24/14
PZ-8	VN663	696.21	67.4	5.0	633.81	13.88	682.33	12/07/00
						14.06	682.15	01/12/01
						12.41	683.80	06/26/02
						15.55	680.66	07/17/06
						15.40	680.81	12/05/13
						15.36	680.85	12/17/13
						12.05	684.16	06/24/14
MW-8	VN664	696.24	19.9	15.0	691.34	13.86	682.38	12/07/00
						14.16	682.08	01/12/01
						12.54	683.70	06/26/02
						13.90	682.34	07/17/06
						14.95	681.29	12/05/13
						14.98	681.26	12/17/13
						12.56	683.68	06/24/14

Table 1  
 Static Groundwater Level Data  
 Village of Whitefish Bay - Former Good Hope Road Landfill Site  
 Sigma Project No. 3125

Well ID	DNR Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date
PZ-9	VN665	697.68	60.5	5.0	642.18	11.29	686.39	12/07/00
						11.71	685.97	01/12/01
						9.81	687.87	06/26/02
						15.87	681.81	07/17/06
						16.37	681.31	12/05/13
						16.27	681.41	12/17/13
						10.75	686.93	06/24/14
MW-9	VN666	697.70	19.8	15.0	692.90	7.47	690.23	12/07/00
						8.19	689.51	01/12/01
						5.35	692.35	06/26/02
						10.83	686.87	07/17/06
						13.98	683.72	12/05/13
						13.92	683.78	12/17/13
						3.38	694.32	06/24/14
PZ-10	VN667	686.84	42.5	5.0	649.34	13.75	673.09	12/07/00
		686.95	42.5	5.0	649.45	14.05	672.79	01/12/01
						10.21	676.63	06/26/02
						11.87	674.97	07/17/06
						12.18	674.66	12/05/13
						12.25	674.59	12/17/13
						9.33	677.51	06/24/14
MW-10	VN668	687.10	19.5	15.0	682.60	15.53	671.57	12/07/00
		687.21	19.5	15.0	682.71	15.94	671.16	01/12/01
						11.75	675.46	06/26/02
						12.87	674.34	07/17/06
						13.59	673.62	12/05/13
						13.68	673.53	12/17/13
						11.17	676.04	06/24/14
PZ-11	VN669	691.46	48.5	5.0	648.01	8.63	682.83	06/26/02
						12.24	679.22	10/02/03
						10.33	681.13	07/17/06
						11.37	680.09	12/05/13
						11.46	680.00	12/17/13
						8.35	683.11	06/24/14
MW-11	VN636	691.68	17.7	15.0	688.98	8.84	682.84	06/26/02
						12.46	679.22	10/02/03
						10.53	681.15	07/17/06
						11.58	680.10	12/05/13
						11.64	680.04	12/17/13
						8.55	683.13	06/24/14

Notes:

1. Well/piezometers located on the landfill property were surveyed by Sigma.
2. Top of casing elevations for MPS wells were obtained from NRT report (4/4/99). Top of casing elevations for MPS:P-6 thru MW-11/PZ-11 were surveyed by Northshore Engineering on December 2000.
3. Depth of well and depth of water level measured from top of casing.
4. NM - Water level not measured.



**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-A</b>		Screened Interval: 4 to 14 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	0.45	<0.23	<0.26	<0.28	<0.28	<0.25	<0.23	NA	NA	<0.27	<0.28	<0.27	<0.20	<0.23	
04/21/98	0.44	NR	NR	<0.47	<0.90	NR	NR	NR	NR	<0.41	NR	NR	<0.49	<0.52	
12/18/13	WELL DRY - COULD NOT BE SAMPLED														
06/25/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>PZ-A</b>		Screened Interval: 17 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<b>2.1</b>	<0.23	<0.26	<0.28	0.64	<0.25	0.59	NA	NA	<b>1</b>	0.74	<0.27	<b>2</b>	<b>0.79</b>	
04/21/98	<0.44	NR	NR	<0.47	2.7	NR	NR	NR	NR	<0.41	NR	NR	<0.49	<0.52	
12/18/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/25/14	0.44 "J"	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>0.30 "J"</b>	

<b>MW-B</b>		Screened Interval: 4 to 14 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<0.41	<0.23	<0.26	<0.28	0.34	<0.25	<0.23	NA	NA	<0.27	<0.28	<0.27	<0.20	<0.23	
04/21/98	<0.44	NR	NR	<0.47	<0.90	NR	NR	NR	NR	<0.47	NR	NR	<0.49	<0.52	
12/18/13	WELL DAMAGED - COULD NOT BE SAMPLED														

<b>PZ-B</b>		Screened Interval: 18.5 to 23.5 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<0.41	<0.23	<0.26	<0.28	0.48	<0.25	<0.23	NA	NA	<0.27	<0.28	<0.27	<0.20	<0.23	
04/21/98	<0.44	NR	NR	<0.47	<0.90	NR	NR	NR	NR	<0.41	NR	NR	<0.47	<0.52	
12/18/13	WELL DAMAGED - COULD NOT BE SAMPLED														

**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-C</b>		Screened Interval: 5 to 15 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<2.0	<1.2	<1.3	<1.4	<b>270</b>	3.4	<1.2	NA	NA	<b>73</b>	<1.4	<1.4	<b>540</b>	<b>14</b>	
04/21/98	0.58	NR	NR	<0.47	<b>51</b>	NR	NR	NR	NR	<b>81</b>	NR	NR	<b>13</b>	<b>3.1</b>	
12/18/13	WELL DRY														
06/25/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>PZ-C</b>		Screened Interval: 21 to 26 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<0.41	<0.23	0.89	0.62	<b>110</b>	2.3	<0.23	NA	NA	0.27	<0.28	<0.27	<b>1.5</b>	<b>150</b>	
04/21/98	<0.44	NR	NR	0.8	<b>200</b>	NR	NR	NR	NR	<0.41	NR	NR	<b>16</b>	<b>230</b>	
07/15/98	<0.44	NR	NR	<0.47	<b>82</b>	NR	NR	NR	NR	<0.41	NR	NR	<b>0.89</b>	<b>150</b>	
12/18/13	<0.24	<0.33	<0.3	<0.4	4.5	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>8.8</b>	
06/25/14	<0.24	<0.33	<0.3	<0.4	<b>37</b>	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>34</b>	

<b>MW-D</b>		Screened Interval: 7 to 17 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<100	<58	<b>120</b>	<70	<b>26,000</b>	<b>62</b>	<b>1,800</b>	NA	NA	<b>4,500</b>	<b>660</b>	<b>400</b>	<b>9,900</b>	<b>520</b>	
06/27/02	<86	<110	<110	<110	<b>21,000</b>	<120	<100	<120	<280	<b>460</b>	<130	<110	<b>1,400</b>	<b>280</b>	
12/18/13	WELL DRY														
06/25/14	<12	<16.5	<15	<20	<b>3,010</b>	<b>52 "J"</b>	<27.5	<25	<85	<b>980</b>	<34.5	40 "J"	<b>1,400</b>	<9	

**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>PZ-D</b>		Screened Interval: 24.5 to 29.5 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<41	<23	81	<b>42</b>	<b>19,000</b>	<b>84</b>	36	NA	NA	<b>51</b>	<28	<27	<b>1,900</b>	<b>4,100</b>	
06/27/02	<86	<110	<110	<110	<b>19,000</b>	<120	<100	<120	<280	<100	<130	<110	<b>5,000</b>	<b>3,500</b>	
12/19/13	<24	<33	<30	<40	<b>3,700</b>	<b>42 J</b>	<55	<50	<170	<33	<69	<33	<33	<b>1,200</b>	
12/19/13 DUP	<12	<16.5	<15	<20	<b>3,400</b>	<17.5	<27.5	<25	<85	<16.5	<34.5	<16.5	<16.5	<b>1,000</b>	
06/25/14	<24	<33	<30	<40	<b>2,840</b>	<35	<55	<50	<170	<33	<69	<33	<16.5	<b>790</b>	

<b>MW-E</b>		Screened Interval: 7 to 17 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/19/97	<8.2	<4.6	<5.2	<5.6	<b>390</b>	<5.0	<4.6	NA	NA	<b>510</b>	<5.6	<5.4	<b>2,700</b>	<4.6	
06/27/02	<4.3	<5.6	<5.7	<5.7	<b>140</b>	<5.9	<4.9	<6.0	<14	<b>290</b>	<6.3	<5.7	<b>330</b>	<1.2	
12/18/13	WELL DRY														
06/23/14	WELL DRY														

<b>MW-4</b>		Screened Interval: 14.2 to 19.2 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
10/05/88	<1.0	<1.0	3.6	<1.0	NA	<1.0	<1.0	<1.0	NR	<b>400</b>	<1.0	<1.0	<b>425</b>	<1.0	
11/10/88	<1.0	<1.0	<1.0	<1.0	NA	<1.0	<1.0	<1.0	NR	<b>223</b>	<1.0	<1.0	<b>341</b>	<1.0	
04/19/89	<1.0	<1.0	6	2.3	NA	<b>229</b>	<1.0	<1.0	NR	<b>110</b>	<1.0	<1.0	<b>264</b>	<1.0	
11/16/93	<0.2	<0.5	2.3	1.0	<b>212</b>	2.2	<1.0	<2.5	NR	<b>87.1</b>	<1.0	<0.5	<b>104</b>	<b>38.7</b>	
06/07/96	NA	NA	ND	NA	<b>190</b>	ND	ND	NA	NR	<b>1,400</b>	ND	ND	<b>1,100</b>	<b>18</b>	
06/20/97	<0.82	<0.46	1.6	0.72	<b>150</b>	0.92	<0.46	NA	NA	<b>270</b>	<0.56	<0.54	<b>170</b>	<b>18</b>	
06/27/02	<4.3	<5.6	<5.7	<5.7	<b>170</b>	<5.9	<4.9	<6.0	<14	<b>640</b>	<6.3	<5.7	<b>310</b>	<b>7.4</b>	
12/18/13	WELL COULD NOT BE LOCATED														
06/25/14	<2.4	<3.3	<3	<4	4.7 "J"	<3.5	<5.5	<5	<17	<b>780</b>	<6.9	<3.3	<b>139</b>	<1.8	

**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-6</b>		Screened Interval: 15.3 to 20.3 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
11/16/1993	0.3	<0.5	<0.5	<0.4	0.9	<0.5	<1.0	NA	NA	<0.5	<2.0	<0.5	<b>0.7</b>	<b>1.3</b>	
6/7/1996	NA	NA	NA	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	
6/20/1997	<0.41	<0.23	<0.26	<0.28	0.45	<0.25	<0.23	NA	NA	<0.27	<0.28	<0.27	<0.20	<b>0.37</b>	
04/21/98	<0.44	NR	NR	<0.47	<0.90	NR	NR	NR	NR	<0.41	NR	NR	<0.43	<b>0.99</b>	
07/15/98	<0.44	NR	NR	<0.47	<1.1	NR	NR	NR	NR	<0.41	NR	NR	<0.49	<b>1.3</b>	
12/18/13	WELL DRY														
06/26/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>W-MW-10</b>		Screened Interval: 23.3 to 28.3 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
10/05/88	<1.0	<1.0	23	<b>46</b>	NR	<1.0	<1.0	<b>8.2</b>	NA	<b>138</b>	24	30	<b>2,630</b>	<1.0	
11/10/88	3.9	<1.0	31	<b>54</b>	NR	<1.0	<1.0	<1.0	NA	<b>34</b>	3.4	<1.0	<b>877</b>	<1.0	
04/19/89	<1.0	<1.0	18.8	<b>35.6</b>	NR	<b>10400</b>	3.5	<1.0	NA	<b>477</b>	11.5	<1.0	<b>3,400</b>	<b>3,400</b>	
11/16/93	0.3	<0.5	2.4	<b>2.3</b>	<b>61.8</b>	<b>20.2</b>	<1.0	<2.5	NA	<b>751</b>	<2.0	<0.5	<b>2,740</b>	<b>303</b>	
06/07/96	NA	NA	ND	NA	<b>740</b>	ND	ND	NA	NA	<b>300</b>	ND	ND	<b>1,700</b>	<b>640</b>	
06/20/97	<8.2	<4.6	<5.2	<5.6	<b>1,400</b>	19	<4.6	NA	NA	<b>460</b>	<5.6	<5.4	<b>2,000</b>	<b>620</b>	
06/27/02	<43	<56	<57	<57	<b>17,000</b>	<59	87 "J"	<60	<140	<49	<b>460</b>	<57	<73	<b>4,600</b>	
12/19/13	<24	<33	<30	<40	<b>820</b>	<35	<55	<50	<170	<33	<69	<33	<b>73 J</b>	<b>500</b>	
06/25/14	<24	<33	<30	<40	<b>600</b>	<35	<55	<50	<170	<b>194</b>	<69	<33	<b>780</b>	<b>202</b>	

**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>W-MW-11</b>		Screened Interval: 20.6 to 25.6 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
10/05/88	<1.0	<1.0	19.4	<b>18.7</b>	NA	<1.0	<1.0	<1.0	NA	<b>15.6</b>	3.6	27.9	<1.0	<1.0	
11/10/88	<1.0	<1.0	20.6	<b>20.8</b>	NA	<1.0	<1.0	<1.0	NA	<b>9</b>	<1.0	<b>42.6</b>	<b>11.9</b>	<1.0	
04/19/89	<b>3.6</b>	<1.0	30.2	<b>26</b>	NA	<b>9,130</b>	0.7	<1.0	NA	<b>11.8</b>	2.2	48.4	<b>69</b>	<b>825</b>	
11/16/93	<b>1.1</b>	<0.5	22.9	<b>7</b>	<b>2,660</b>	<b>21.3</b>	39.8	<2.5	NA	<0.5	30.4	21.8	<b>7.2</b>	<b>1,750</b>	
06/07/96	NA	NA	ND	NA	<b>28,000</b>	NA	<b>400</b>	NA	NA	ND	<b>1,000</b>	ND	ND	<b>7,500</b>	
06/20/97	<41	<23	32	<28	<b>9,300</b>	<b>54</b>	45	NA	NA	<27	110	<27	<20	<b>2,100</b>	
06/27/02	<86	<110	<110	<110	<b>1,300</b>	<120	<100	<120	<280	<b>1,300</b>	<130	<110	<b>3,900</b>	<b>400</b>	
12/18/13	<24	<33	<30	<40	<b>4,300</b>	<35	<55	<50	<170	<33	<69	<33	<33	<b>254</b>	
06/25/14	<24	<33	<30	<40	<b>20,300</b>	<b>128</b>	<55	<50	<170	<33	<b>281</b>	39 "J"	<33	<b>1,780</b>	

<b>MW-18</b>		Screened Interval: 15.7 to 25.7 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/19/88	<1.0	<1.0	4.8	0.4	NA	<b>106</b>	<1.0	<1.0	NA	<1.0	<1.0	<1.0	<b>9.4</b>	<1.0	
11/16/93	0.2	<0.5	2.5	<0.4	<b>111</b>	1.8	<1.0	<2.5	NA	<0.5	<2.0	<0.5	<b>3.2</b>	<b>30.5</b>	
06/07/96	NA	NA	ND	NA	<b>15</b>	NA	ND	NA	NA	ND	ND	ND	<b>1.4</b>	<b>2.3</b>	
06/20/97	<0.41	<0.23	0.94	0.33	<b>83</b>	1.4	<0.23	NA	NA	<0.27	<0.28	<0.27	<b>3.2</b>	<b>11</b>	
12/18/13	<0.24	<0.33	<0.3	<0.4	<b>39</b>	0.61 J	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<b>0.50 J</b>	<b>15.4</b>	
06/26/14	<0.24	<0.33	<0.3	<0.4	2.8	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>0.84</b>	

<b>MW-22</b>		Screened Interval: 21.8 to 31.8 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
4/19/1989	<b>16.8</b>	ND	<b>165</b>	<b>82.3</b>	<b>NA</b>	<b>22,200</b>	<b>24.7</b>	<1	NA	<b>36.4</b>	<b>25.3</b>	<1	<b>1,180</b>	<b>2,490</b>	
11/16/93	<b>13.8</b>	<b>20.1</b>	<b>153</b>	<b>58.7</b>	<b>1,830</b>	<b>195</b>	<b>3,680</b>	NA	NA	<b>823</b>	<b>2,310</b>	<b>468</b>	<b>1,720</b>	<b>770</b>	
06/27/95	<40	NA	<100	<80	<b>17,400</b>	<100	<b>12,600</b>	NA	NA	<b>7,290</b>	<b>1,360</b>	<b>251</b>	<b>13,400</b>	<b>3,460</b>	
06/07/96	<600	<1000	<1000	<1000	<b>73,000</b>	<1000	<b>5,100</b>	<1000	<1000	<b>4,100</b>	<b>3,100</b>	<b>1,100</b>	<b>83,000</b>	<b>2,800</b>	
12/18/13	WELL DRY														
6/25/2014	<200	<165	<150	<200	<b>19,900</b>	<175	<275	<250	<850	<165	<345	<165	<b>480 "J"</b>	<b>500</b>	



**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-25</b>		Screened Interval: 10 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/27/95	NA	<4.0	<10	<8.0	<b>632</b>	<10	<20	NA	NA	<10	<40	<10	<4.0	<b>59.5</b>	
06/07/96	NA	NA	ND	NA	<b>19</b>	ND	ND	NA	NA	ND	NA	ND	ND	<b>1.8</b>	
06/20/97	NA	<4.1	<2.6	<b>7.1</b>	<b>1,000</b>	6.6	<2.3	NA	NA	<2.7	<2.8	<2.7	<2.0	<b>250</b>	
08/18/98	NA	<0.27	<0.35	<b>0.78</b>	<b>85</b>	<0.79	<0.32	<0.36	NA	<0.43	<0.27	<0.30	<0.37	<b>16</b>	
07/20/06	70	0.2 "J"	0.57 "J"	<b>6.0</b>	<b>780</b>	11	<0.5	<0.1	<0.25	<0.5	<0.5	<0.5	<0.2	<b>300</b>	
05/21/08	9.8	<3.2	<8.0	<8.0	<8.0	<8.0	<8.0	<16	<4.0	<3.2	<3.2	<8.0	<8.0	<3.2	
03/04/09	NA	<2	<5	<5	<b>720</b>	<b>52</b>	<5	<16	<4.0	<5	<5	<8.0	<2	<b>440</b>	
10/11/12	NA	<5	<5	<5	<b>750</b>	<b>30.1</b>	<5	<16	<4.0	<4.4	<5.3	<8.0	<2	<b>286</b>	
06/25/13	NA	<0.24	<0.3	<0.4	3.5	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>0.56 "J"</b>	
12/17/13	NA	<2.4	<3.3	<3	<b>610</b>	4.9 J	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	<b>300</b>	
06/24/14	8.68	<0.24	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>MW-26</b>		Screened Interval: 12 to 22 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/27/95	<20	<50	<50	<40	<b>3,070</b>	<50	<100	NA	NA	<50	<200	<50	<20	<b>712</b>	
06/07/96	NA	NA	ND	NA	<b>1,100</b>	ND	ND	NA	NA	ND	NA	ND	ND	<b>690</b>	
06/20/97	<4.1	<2.3	<2.6	<2.8	<b>1,000</b>	9	<2.3	NA	NA	<2.7	<2.8	<2.7	<2.0	<b>350</b>	
06/27/02	<2.2	<2.8	<2.9	<2.9	<b>220</b>	<3.0	<2.5	<3.0	<7.0	<2.5	<3.2	<2.9	<3.7	<b>160</b>	
12/18/13	<12	<16.5	<15	<20	<b>1280</b>	<17.5	<27.5	<25	<85	<16.5	<34.5	<16.5	<16.5	<b>560</b>	
12/18/13 DUP	<2.4	<3.3	<3	<4	<b>1270</b>	5.1 J	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	<b>560</b>	
06/25/14	<0.24	<0.33	<0.3	<0.4	0.76 "J"	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>W-MW-1S</b>		Screened Interval: 5 to 15 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/21/98	<0.44	NA	NA	<0.47	NA	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
07/15/98	<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	

WELL REMOVED IN EARLY 2000

**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>W-MW-2S</b>		Screened Interval: 5 to 15 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/21/98	<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
07/15/98	<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
WELL REMOVED IN EARLY 2000															

<b>W-MW-3S</b>		Screened Interval: 3 to 13 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/21/98	<0.44	NA	NA	<0.47	NA	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
07/15/98	<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.63	<0.52	
WELL REMOVED IN EARLY 2000															

<b>W-MW-4S</b>		Screened Interval: 5 to 15 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/21/98	<0.44	NA	NA	<0.47	NA	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
07/15/98	<0.44	NA	NA	<0.47	<0.9	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
12/18/2013	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
6/26/2014	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

**Table 2**  
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**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>W-MW-4D</b>		Screened Interval: 15 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/21/98	<0.44	NA	NA	<0.47	<0.90	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
07/15/98	<0.44	NA	NA	<0.47	1.3	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<0.52	
12/18/13	<0.24	<0.33	<0.3	<0.4	0.43 J	0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/26/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>W-MW-5S</b>		Screened Interval: 5 to 15 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
04/21/98	<0.44	NA	NA	<0.47	NA	NA	NA	NA	NA	<0.41	NA	NA	<0.49	<b>22</b>	
07/15/98	<0.44	NA	NA	<0.47	<b>12</b>	NA	NA	NA	NA	<0.41	NA	NA	<b>1.2</b>	<b>43</b>	
12/18/2013 **	<0.24	<0.33	<0.3	<0.4	<b>19</b>	0.45 J	<0.55	<0.5	<1.7	<b>1.67</b>	<0.69	<0.33	<b>14</b>	<b>8.6</b>	
06/26/14	<0.24	<0.33	<0.3	<0.4	5.7	<0.35	<0.55	<0.5	<1.7	<b>1.87</b>	<0.69	<0.33	<b>15</b>	<b>1.3</b>	

<b>MPS MW-1</b>		Screened Interval: 6 to 16 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
08/19/98	<0.27	NA	<0.35	<0.43	<0.28	<0.79	<0.32	<0.36	<0.35	<0.43	<0.27	<0.30	<0.37	<0.20	
12/08/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/18/13	WELL NO LONGER EXISTS														

**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MPS P-1</b> Screened Interval: 25 to 30 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
08/19/98	<5.4	NA	8.4	<8.6	<b>2,600</b>	<16	<6.4	<7.2	<7.0	<8.6	<5.4	<6.0	<7.4	<b>820</b>
01/21/99	<6.8	NA	11	<11	<b>3,200</b>	<20	<8.0	<9.0	<8.8	<11	<6.8	<7.5	<9.2	<b>1,100</b>
12/08/00	<10	NA	<25	<25	<b>3,200</b>	<25	<25	<25	<25	<25	<10	<25	<25	<b>1,600</b>
12/00 Dup.	<10	NA	<25	<25	<b>3,100</b>	<25	<25	<25	<25	<25	<10	<25	<25	<b>1,400</b>
12/18/13	WELL NO LONGER EXISTS													

<b>MPS MW-2</b> Screened Interval: 8 to 18 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
12/18/13	WELL DRY													
06/23/14	WELL DRY													

<b>MPS P-2</b> Screened Interval: 25.6 to 30.6 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
08/19/98	<2.7	NA	5.2	<4.3	<b>1,000</b>	8.9	<3.2	<b>3.7</b>	<3.5	<4.3	<2.7	<3.0	<3.7	<b>810</b>
01/21/99	<5.4	NA	8.2	<8.6	<b>1,900</b>	<16	<6.4	<7.2	<7.0	<8.6	<5.4	<6.0	<7.4	<b>1,600</b>
06/27/02	<22	<28	<29	<29	<b>1,400</b>	<30	<25	<30	<70	<25	<32	<29	<37	<b>2,100</b>
06/25/13	<4.8	<6.6	<6	<8	<b>740</b>	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	<b>600</b>
12/18/13	<4.8	<6.6	<6	<8	<b>1,080</b>	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	<b>940</b>
06/25/14	<4.8	<6.6	<6	<8	<b>1,530</b>	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	<b>670</b>

<b>MPS MW-3</b> Screened Interval: 5 to 11 feet bgs														
Sampling Date	VOCs													
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02
12/18/13	WELL DRY													
06/25/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18

Sigma Environmental Services, Inc.

**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MPS P-3</b>		Screened Interval: 25 to 30 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
08/19/98	<0.54	NA	<0.70	<0.86	<b>320</b>	1.7	<0.64	<b>1.0</b>	<0.70	<0.86	<0.54	<0.60	<0.74	<b>150</b>	
01/21/99	<0.54	NA	0.78	<0.86	<b>340</b>	3.7	<0.64	<0.72	<0.70	<0.86	<0.54	<0.60	<0.74	<b>240</b>	
06/27/02	<22	<28	<29	<29	<b>2,200</b>	<30	<25	<30	<70	<25	<32	<29	<37	<b>1,500</b>	
12/18/13	<0.24	<0.33	<0.3	<0.4	<b>91</b>	0.43 J	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>144</b>	
06/25/14	<0.24	<0.33	<0.3	<0.4	<b>33</b>	0.37 "J"	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>0.59</b>	

<b>MPS P-4</b>		Screened Interval: 28 to 33 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
01/18/99	<2.7	NA	7.9	<4.3	<b>1,500</b>	11	<3.2	<b>7.2</b>	<3.5	<4.3	<2.7	<3.0	<3.7	<b>1,000</b>	
12/08/00	<4.0	NA	<10	<10	<b>880</b>	<10	<10	<10	<10	<10	<4.0	<10	<10	<b>760</b>	
06/27/02	<22	<28	<29	<29	<b>2,200</b>	<30	<25	<30	<70	<25	<32	<29	<37	<b>1,500</b>	
06/25/13	<4.8	<6.6	<6	<8	<b>910</b>	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	<b>510</b>	
12/17/13	<12	<16.5	<15	<20	<b>1,880</b>	<17.5	<27.5	<25	<85	<16.5	<34.5	<16.5	<16.5	<b>790</b>	
12/17/13 DUP	<2.4	<3.3	<3	<4	<b>1,940</b>	15.7	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	<b>700</b>	
06/26/14	<4.8	<6.6	<6	<8	<b>1,350</b>	10.2 "J"	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	<b>500</b>	

<b>MPS P-5</b>		Screened Interval: 71.5 to 76.5 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
01/25/99	<0.27	NA	<0.35	<0.43	<b>18</b>	<0.79	<0.32	<0.36	0.38	<0.43	0.98	<0.30	<0.37	<b>110</b>	
12/08/00	<0.20	NA	<0.50	<0.50	<b>10</b>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50	<0.50	<b>91</b>	
06/27/02	<0.43	<0.56	<0.57	<0.57	<b>25</b>	<0.59	<0.49	<0.6	<1.4	<0.49	<0.63	<0.57	<0.73	<b>53</b>	
06/25/13	<4.8	<6.6	<6	<8	<b>259</b>	<7	<11	<10	<34	<6.6	<13.8	<6.6	<6.6	<b>840</b>	
12/17/13	<2.4	<3.3	<3	<4	<b>158</b>	<3.5	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	<b>470</b>	
06/26/14	<2.4	<3.3	<3	<4	<b>247</b>	<3.5	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	<b>540</b>	

**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

MPS P-6 Screened Interval: 15.5 to 20.5 feet bgs															
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
02/13/99	<2.7	NA	4.7	<4.3	<b>850</b>	<7.9	<3.2	<3.6	<3.5	<4.3	<2.7	<3.0	<3.7	<b>810</b>	
12/07/00	<0.10	NA	3.2	<0.25	<b>670</b>	3.6	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<b>530</b>	
06/27/02	<2.2	<2.8	<2.9	<2.9	<b>290</b>	<3.0	<2.5	<3.0	<7.0	<2.5	<3.2	<2.9	<3.7	<b>290</b>	
10/02/03	<4.1	<4.9	<7.5	<5.7	<b>1000</b>	<8.9	<5.4	<4.3	<7.4	<4.5	<6.7	<9.0	<4.5	<b>880</b>	
12/17/13	<2.4	<3.3	<3	<4	<b>580</b>	5.4 J	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	<b>490</b>	
06/26/14	<2.4	<3.3	<3	<4	<b>590</b>	3.7 "J"	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	<b>460</b>	

MPS P-7 Screened Interval: 45 to 50 feet bgs															
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<b>33</b>	<0.25	<0.25	<0.25	0.36	<0.25	0.63	<0.25	<0.25	<b>1,400</b>	
06/27/02	<2.2	<2.8	<2.9	<2.9	<b>15</b>	<3.0	<2.5	<3.0	<7.0	<2.5	<3.2	<2.9	<3.7	<b>360</b>	
10/02/03	<0.41	<0.49	<0.75	<0.57	1.2 / 1.2 *	<0.89	<0.54	<0.43	<0.74	<0.45	<0.67	<0.90	<0.48	<b>64 / 73 *</b>	
12/17/13	<0.24	<0.33	<0.3	<0.4	1.28	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>26.2</b>	
06/26/14	<2.4	<3.3	<3	<4	<b>24.4</b>	<3.5	<5.5	<5	<17	<3.3	<6.9	<3.3	<3.3	<b>490</b>	

PZ-8 Screened Interval: 63 to 68 feet bgs															
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	



**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-8</b>		Screened Interval: 5.5 to 20.5 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>PZ-9</b>		Screened Interval: 56 to 61 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	3.2	<0.25	2.2	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>MW-9</b>		Screened Interval: 5 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>PZ-10</b>		Screened Interval: 38 to 43 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	2.8	<0.25	0.79	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

**Table 2**  
**Groundwater Quality Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-10</b>		Screened Interval: 5 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
12/07/00	<0.10	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>PZ-11</b>		Screened Interval: 44 to 49 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/27/02	<0.43	<0.56	<0.57	<0.57	<0.53	<0.59	<0.49	<0.6	<1.4	<0.49	<0.63	<0.57	<0.73	<0.12	
10/02/03	<b>8.9</b>	<0.49	<0.75	<0.57	<0.83	<0.89	<0.54	<0.43	<0.74	<0.45	<0.67	<0.90	<0.48	<0.18	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>0.31 J</b>	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	

<b>MW-11</b>		Screened Interval: 5 to 20 feet bgs													
Sampling Date	VOCs														
	Benzene	Carbon Tetrachloride	1,1-DCA	1,1-DCE	cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	Methylene Chloride	Naphthalene	PCE	Toluene	1,1,1-TCA	TCE	Vinyl Chloride	
Units:	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
NR 140 ES	5	5	850	7	70	100	700	5	40	5	1,000	200	5	0.2	
NR 140 PAL	0.5	0.5	85	0.7	7	20	140	0.5	8	0.5	200	40	0.5	0.02	
06/27/02	<0.43	<0.56	<0.57	<0.57	<0.53	<0.59	<0.49	<0.6	<1.4	<0.49	<0.63	<0.57	<0.73	<0.12	
10/02/03	<0.41	<0.49	<0.75	<0.57	<0.83	<0.89	<0.54	<0.43	<0.74	<0.45	<0.67	<0.90	<0.48	<0.18	
12/17/13	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<0.18	
06/27/14	<0.24	<0.33	<0.3	<0.4	<0.38	<0.35	<0.55	<0.5	<1.7	<0.33	<0.69	<0.33	<0.33	<b>0.73</b>	

**Notes:**

- NR 140 ES = Wis. Adm. Code Chapter NR 140 Enforcement Standard
- NR 140 PAL = Wis. Adm. Code Chapter NR 140 Preventive Action Limit
- ES Exceedances: **BOLD**  
PAL Exceedances: **BOLD**
- NS = no standard
- \*\* W-MW-5S was mislabeled as MW-4 during Dec 2013 sampling event.
- \* Second value represents duplicate sample result.

5. Abbreviations:

- |                                      |  |
|--------------------------------------|--|
| ND = Not Detected                    | NS = Not Sampled                         |
| 1,1-DCA = 1,1-Dichloroethane         | 1,1-DCE = 1,1-Dichloroethene             |
| cis-1,2-DCE = cis-1,2-Dichloroethene | trans-1,2-DCE = trans-1,2-Dichloroethene |
| TCE = Trichloroethene                | PCE = Tetrachloroethene                  |
| 1,1,1-TCA = 1,1,1-Trichloroethane    |  |

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-A</b> Screened Interval: 4 to 14 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY						
6/25/2014	308	<0.5	<0.7	<1			

<b>PZ-A</b> Screened Interval: 17 to 20 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	158	<0.5	<0.7	<1	115	481	349
06/25/14	164 "J"	<0.5	<0.7	<1			

<b>MW-B</b> Screened Interval: 4 to 14 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DAMAGED - COULD NOT BE SAMPLED						

<b>PZ-B</b> Screened Interval: 18.5 to 23.5 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DAMAGED - COULD NOT BE SAMPLED						

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-C</b> Screened Interval: 5 to 15 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		
06/25/14	116 "J"	<0.5	<0.7	<1			

<b>PZ-C</b> Screened Interval: 21 to 26 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	<60.1	<0.5	<0.7	<1	127	324	140
06/25/14	85.6 "J"	<0.5	<0.7	<1			

<b>MW-D</b> Screened Interval: 7 to 17 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		
06/25/14	119 "J"	<0.5	<0.7	<1			

<b>PZ-D</b> Screened Interval: 24.5 to 29.5 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/19/13	69	<0.5	<0.7	<1	577	1028	330.00
6/25/2014	87.3 "J"	<0.5	<0.7	<1			

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-E</b> Screened Interval: 7 to 17 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		

<b>MW-4</b> Screened Interval: 14.2 to 19.2 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL COULD NOT BE LOCATED						
6/25/2014	73.4 "J"	<0.5	<0.7	<1			

<b>MW-6</b> Screened Interval: 15.3 to 20.3 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		
06/25/14	1,250	<0.5	<0.5	<1			

<b>W-MW-10</b> Screened Interval: 23.3 to 28.3 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/19/13	93	<0.5	<0.7	<1	541	965	345
06/25/14	83.5 "J"	<0.5	<0.7	1.6 "J"			

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>W-MW-11</b>		Screened Interval: 20.6 to 25.6 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	84	<0.5	<0.7	<1	289	834	375
06/25/14	242	<0.5	<0.7	1.4 "J"			

<b>MW-18</b>		Screened Interval: 15.7 to 25.7 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	92	<0.5	<0.7	<1	755	429	309
6/26/2014	761	<0.5	<0.7	<1			

<b>MW-22</b>		Screened Interval: 21.8 to 31.8 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		
6/25/2014	94	<0.5	<0.7	<1			



**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-25</b> Screened Interval: 10 to 20 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	157	763	305

<b>MW-26</b> Screened Interval: 12 to 22 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	87	<0.5	<0.7	<1	250	808	351
06/25/14	<60.1	<0.5	<0.7	<1			

<b>W-MW-1S</b> Screened Interval: 5 to 15 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
WELL NO LONGER EXISTS							

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>W-MW-2S</b> Screened Interval: 5 to 15 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
WELL NO LONGER EXISTS							

<b>W-MW-3S</b> Screened Interval: 3 to 13 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
WELL NO LONGER EXISTS							

<b>W-MW-4S</b> Screened Interval: 5 to 15 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/2013	<60.1	<0.5	<0.7	<1	390	1830	609
6/26/2014	<60.1	<0.5	<0.7	8.8			

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>W-MW-4D</b> Screened Interval: 15 to 20 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/2013	<60.1	<0.5	<0.7	<1	150	409	154
6/26/2014	<60.1	<0.5	<0.7	<1			

<b>W-MW-5S</b> Screened Interval: 5 to 15 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/2013 **	<60.1	<0.5	<0.7	<1	252	778	337
06/26/14	<60.1	<0.5	<0.7	<1			

<b>MPS MW-1</b> Screened Interval: 6 to 16 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL NO LONGER EXISTS						

<b>MPS P-1</b> Screened Interval: 25 to 30 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL NO LONGER EXISTS						

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MPS MW-2</b>		Screened Interval: 8 to 18 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		

<b>MPS P-2</b>		Screened Interval: 25.6 to 30.6 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	69	<0.5	<0.7	<1	289	815	334
06/25/14	93.5 "J"	<0.5	<0.7	<1			

<b>MPS MW-3</b>		Screened Interval: 5 to 11 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	WELL DRY				WELL DRY		
06/25/14	<60.1	<0.5	<0.7	<1			

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MPS P-3</b> Screened Interval: 25 to 30 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/18/13	88	<0.5	<0.7	<1	249	642	322
06/25/14	107 "J"	<0.5	<0.7	<1			

<b>MPS P-4</b> Screened Interval: 28 to 33 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	79	<0.5	<0.7	<1	297	765	342
06/26/14	98.1	<0.5	<0.7	<1			

<b>MPS P-5</b> Screened Interval: 71.5 to 76.5 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	96	<0.5	<0.7	<1	239	745	296
06/26/14	137 "J"	<0.5	<0.7	<1			

<b>MPS P-6</b> Screened Interval: 15.5 to 20.5 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	71	<0.5	<0.7	<1	336	771	319
06/26/14	201	<0.5	<0.7	<1			

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MPS P-7</b>		Screened Interval: 45 to 50 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	205	355	41
06/26/14	<60.1	<0.5	<0.7	<1			

<b>PZ-8</b>		Screened Interval: 63 to 68 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	116	<0.5	<0.7	<1	32.5	391	176
06/27/14	69.1 "J"	<0.5	<0.7	<1			

<b>MW-8</b>		Screened Interval: 5.5 to 20.5 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	120	<0.5	<0.7	<1	83.4	591	284
06/27/14	<60.1	<0.5	<0.7	<1			

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>PZ-9</b>		Screened Interval: 56 to 61 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	8.53	635	295
06/27/14	<60.1	<0.5	<0.7	<1			

<b>MW-9</b>		Screened Interval: 5 to 20 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	5.29	669	351
06/27/14	84.9 "J"	<0.5	<0.7	<1			

<b>PZ-10</b>		Screened Interval: 38 to 43 feet bgs					
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	262	276	46.7
06/27/14	93.5 "J"	<0.5	<0.7	<1			

**Table 3**  
**Groundwater Inorganic Data**  
**Village of Whitefish Bay - Former Good Hope Road Landfill Site**  
**Sigma Project No. 14411**

<b>MW-10</b> Screened Interval: 5 to 20 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	72	<0.5	<0.7	<1	259	973	301
06/27/14	72.4 "J"	<0.5	<0.7	<1			

<b>PZ-11</b> Screened Interval: 44 to 49 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	380	1190	304
06/27/14	67.1 "J"	<0.5	<0.7	<1			

<b>MW-11</b> Screened Interval: 5 to 20 feet bgs							
Sampling Date	Inorganic Metals				General Wet Chemistry		
	Boron (Dissolved)	Cadmium (Dissolved)	Lead (Dissolved)	Selenium (Dissolved)	Chlorides (Filtered)	Total Hardness (Filtered)	Total Alkalinity (Filtered)
Units:	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
NR 140 ES	1,000	5	15	50	NS	NS	NS
NR 140 PAL	200	0.5	1.5	10	NS	NS	NS
12/17/13	<60.1	<0.5	<0.7	<1	171	819	312
06/27/14	119 "J"	<0.5	<0.7	1.6 "J"			

**Notes:**

1. NR 140 ES = Wis. Adm. Code Chapter NR 140 Enforcement Standard
2. NR 140 PAL = Wis. Adm. Code Chapter NR 140 Preventive Action Limit
3. ES Exceedances: **BOLD**
- PAL Exceedances: **BOLD**
4. NS = no standard

\*\* W-MW-5S was mislabeled as MW-4 during Dec 2013 sampling event.



Table 4  
Groundwater Biodegradation Parameters  
Former Good Hope Road Landfill Site and Vicinity  
Sigma Project No. 3125

<b>MW-A</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/19/97	168	356	341663					

<b>PZ-A</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/18/13				1.28	95.5	7.93	1.8	11.2

<b>MW-B</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/19/97	64	107	170461					

<b>PZ-B</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)

<b>MW-C</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)

<b>PZ-C</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/18/13				72.7	1.22	8.08	2	10.7

<b>MW-D</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/19/97	38009	22792	407794					
06/27/02	3300	8000	31000	0.2	-102.7	7	0	15.3

Table 4  
Groundwater Biodegradation Parameters  
Former Good Hope Road Landfill Site and Vicinity  
Sigma Project No. 3125

<b>PZ-D</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	2500	870000	1500000	0.2	-142.9	7	0	14.8
12/19/13				3.74	175	7.6	5.2	8.5

<b>MW-E</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	16	25	680	0.27	-59.4	7	0	15.4

<b>MW-4</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02				0.22	-77.9	7	0	15.1
12/18/13				WELL COULD NOT BE LOCATED				

<b>W-MW-4S</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/18/13				0.67	82.1	7.35	3.8	10.9

<b>W-MW-4D</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/18/13				1.48	86.3	7.81	2.2	11.4

<b>W-MW-5S</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/18/13				1.44	67.1	7.72	0	10

<b>MW-6</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)

<b>W-MW-10</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	130	53000	38000	0.29	-31.8	7	0	14.9
12/19/13				2.15	139.9	7.56	3.2	8.2

Table 4  
Groundwater Biodegradation Parameters  
Former Good Hope Road Landfill Site and Vicinity  
Sigma Project No. 3125

<b>W-MW-11</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02				0.23	-131.1	7	0	14.9
12/18/13				1.51	106.5	7.37	1.8	9.3

<b>MW-25</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/17/13				1.52	74.2	7.82	0	10.8

<b>MW-26</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02				0.19	-146.9	7	0	15.1
12/18/13				1.39	88	7.65	4.2	10.1

<b>MPS MW-1</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	109.6	7	0	12.0

<b>MPS P-1</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.31	47.2	7	0	13.1

Table 4  
Groundwater Biodegradation Parameters  
Former Good Hope Road Landfill Site and Vicinity  
Sigma Project No. 3125

<b>MPS MW-2</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	109.6	7	0	12.0

<b>MPS P-2</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	109.6	7	0	12.0
06/27/02				0.28	-169.6	7	0	14.5
12/18/13				2.23	161.5	7.72	2	11.1

<b>MPS MW-3</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	109.6	7	0	12.0

<b>MPS P-3</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02				0.24	-178.4	7	0	14.7
12/18/13				2.25	94.1	7.76	3	10.8

<b>MPS P-4</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.42	22.3	7	0	13.7
12/17/13				1.26	117.3	7.53	2.4	10.9

<b>MPS P-5</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	19.7	7	0	13.4
06/27/02	<5.0	64	520	0.22	-106.7	7	0	13.7
12/17/13				1.13	120.2	7.86	0	10.7

Table 4  
Groundwater Biodegradation Parameters  
Former Good Hope Road Landfill Site and Vicinity  
Sigma Project No. 3125

<b>MPS P-6</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.43	38.9	7	0	14.2
06/27/02	520	4400	4400	0.47	110.6	7	0	15.2
10/02/03	8300	1000	38000	0.28	67.6	7	0	15
12/17/13				1.37	89.2	7.97	1.8	13.3

<b>MPS P-7</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.32	-43.7	7	0	13.5
06/27/02	6600	260000	550000	0.44	96.7	11	0	13.9
10/02/03	7200	490	10000	0.27	55.3	7	0	14.4
12/17/13				1.29	56.1	8.37	0	12.7

<b>PZ-8</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.61	136.1	7	0.8	13.7
12/17/13				1.7	107.9	7.91	0	12.6

<b>MW-8</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				1.09	212.2	7	0.2	13.9
12/17/13				1.15	148	8.07	1.2	13.7

<b>PZ-9</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.79	157.7	7	0	13.5
12/17/13				1.27	139.9	8.62	3.6	11.4

<b>MW-9</b>								
<b>Biodegradation Parameters</b>								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.62	133.4	7	0	12.2
12/17/13				1.11	164.2	7.84	0	12.1

Table 4  
Groundwater Biodegradation Parameters  
Former Good Hope Road Landfill Site and Vicinity  
Sigma Project No. 3125

PZ-10 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.39	18.9	11	0	13.2
12/17/13				1.4	189.1	8.49	0	13.1

MW-10 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
12/07/00				0.56	79.4	7	0	15.4
12/17/13				1.17	219.3	7.69	0	14.0

PZ-11 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	510	900	6800	0.37	192.7	7	0	13.8
12/17/13				1.84	172.2	7.76	4	12.7

MW-11 Biodegradation Parameters								
DATE	Ethene (ng/L)	Ethane (ng/L)	Methane (ng/L)	DO (mg/L)	REDOX (mV)	pH	Ferrous Iron (ppm)	Temp (°C)
06/27/02	560	110	16000	0.45	160.5	7	0	15.2
10/02/03	19	360	1300	0.24	-32.6	7	0.8	14.5
12/17/13				1.06	165.4	7.77	0	13.8

**Notes:**

1. Abbreviations:
- mg/l = milligrams per liter (equivalent to parts per million, ppm)
  - µg/l = micrograms per liter (equivalent to parts per billion, ppb)
  - NA = Not Analyzed
  - DO = Dissolved Oxygen
  - REDOX = Reduction-oxidation potential
  - mV = millivolts
  - °C = Degrees Celcius

**Table 5**  
**Soil PID Readings**  
**Whitefish Bay Landfill**  
**5201 West Good Hope Road, Milwaukee, Wisconsin**  
**Sigma Project No. 14411**

Boring ID	PID Readings (PPM)												
	(0 - 2')	(2' - 4')	(4' - 6')	(6' - 8')	(8' - 10')	(10' - 12')	(12' - 14')	(14' - 16')	(16' - 18')	(18' - 20')	(20' - 22')	(22' - 24')	(24' - 26')
B 1	< 0.1	0.3	0.9	0.7	0.4	0.4	EOB						
B 2	-	-	-	5.6	7.7	9.9	19.8	45.5	EOB				
B 3	8.2	14.3	18.6	245	52	272	EOB						
B 4	8.5	19.5	12.5	148	140	56	33	10.9	EOB				
B 5	5.7	6	10.2	41.5	21	96	EOB						
B 6	49	10	11.5	32	125	1265	EOB						
B 7	0.9	1.5	1.5	3.5	2.5	3.1	5.8	13.5	EOB				
B 8	0	0.1	0	0.5	18	10.2	14	19	EOB				
B 9	2	1.9	1.9	1.8	3.5	7.5	2.1	9.8	EOB				
B 10	1.8	0.4	0.3	1	1.5	1.5	1.2	1.2	EOB				
B 11	24	517	360	1080	385	1312	1275	430	511	60	EOB		
B 12	0.3	1.6	1.3	0.8	0.9	6.1	1.3	6.6	EOB				
B 13	0.1	0.2	0.5	0.2	0.4	1.5	2.6	8	EOB				
B 14	0.1	0.1	0.2	0.2	0.3	11	1.4	1.3	EOB				
B 15	0.2	0.2	0.2	0.2	0.2	0.7	0.4	0.2	EOB				
B 16	0.4	0.4	0.3	0.4	0.3	0.5	0.4	1.3	EOB				
B 17	0.8	0.8	2.5	1.4	2.5	22.1	5.5	>2000	2000+	262	295	89	EOB
B 18	0.5	8.8	18.1	26.9	8.7	9.3	9.4	34.6	EOB				
B 19	0.4	0.7	6.7	> 2000	415	1940	1060	368	EOB				
B 20	0.7	0.9	8	0.6	1.5	0.8	3.5	22	EOB				
B 21	0	0	5.2	8	0.5	0	0.2	6.9	EOB				
B 22	1.4	2.1	1.3	1.3	1.8	2.3	1.7	1	EOB				
B 23	0	1.7	1.5	2	2.6	6.8	24.7	0.6	EOB				
B 24	0.8	1.4	6	6.3	7.6	3.9	36.4	20.3	8	12.5	EOB		
B 25	11.1	20.2	26.1	39.9	167.1	5000+	1548	226.1	EOB				
B 26	14.9	34.9	EOB										
B 27	2	1.8	1.9	12.5	3.4	20.9	EOB						
B 28	0.1	1.6	7.5	5.4	52.5	130.1	EOB						
B 29	0.9	1.7	2.1	1.5	25.4	13.9	EOB						
B 30	1.6	13.9	3.3	12.2	21	30.1	EOB						
B 31	-	-	377	39	-	54	EOB						

Note: 1) A total of 35 Geoprobe Soil Borings were attempted during Spring/Summer 2014 investigation and all but four locations were completed. Due to subsurface obstruction Geoprob drilling was abandoned at four locations.

2) **337** = PID readings greater than 100 ppm are italicized and highlighted in red.

3)  = Samples submitted for laboratory analysis.

**Table 6**  
**Pre-Remedial Soil Analytical Table**  
**Whitefish Bay Landfill - 5201 West Good Hope Road, Milwaukee, Wisconsin**  
**Sigma Project No. 14411**

Soil Sample Location:	B-1	B-2			B-3			B-4			B-5		B-6		B-7		Groundwater Pathway RCL <sup>4</sup>	Non-Industrial Direct Contact RCL <sup>5</sup>	Industrial Direct Contact RCL <sup>6</sup>	
Sample Depth (feet bgs):	8-10	8-10	14-16	4-6	6-8	10-12	4-6	6-8	12-14	4-6	10-12	0-2	10-12	2-4	6-8					
Sample Collection Date:	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/9/14	4/11/14	4/11/14	4/11/14	4/11/14					
Depth to Groundwater (feet bgs):																				
Unsaturated/Smear Zone (U) or Saturated (S):	U	U	S	U	U	S	U	U	S	U	U	U	U	U	U					
Organic Vapor Monitor	ppm	0	10	45	19	245	272	13	148	33	10	96	49	1265	2	4	NS	NS	NS	
<b>PVOCs &amp; Detected VOCs</b>																				
Benzene	µg/kg	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	5.1	1,490	7,410	
Bromobenzene	µg/kg	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	<13	NS	354,000	679,000	
Bromodichloromethane	µg/kg	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	<27	0.3	390	1,960	
Bromoform	µg/kg	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	2.3	61,600	218,000	
tert-Butylbenzene	µg/kg	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	NS	183,000	183,000	
sec-Butylbenzene	µg/kg	<41	<41	<41	<41	<41	<41	<41	<41	<41	<41	<41	<41	<41	<41	<41	NS	145,000	145,000	
n-Butylbenzene	µg/kg	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	<26	90	<26	<26	NS	108,000	108,000	
Carbon tetrachloride	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	3.9	854	4,250	
Chlorobenzene	µg/kg	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	NS	392,000	761,000	
Chloroethane	µg/kg	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	<42	226.6	NS	NS	
Chloroform	µg/kg	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	<49	3.3	423	2,130	
Chloromethane	µg/kg	<181	<181	<181	<181	<181	<181	<181	<181	<181	<181	<181	<181	<181	<181	<181	15.5	171,000	720,000	
2-Chlorotoluene	µg/kg	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	<16	NS	907,000	907,000	
4-Chlorotoluene	µg/kg	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	NS	253,000	253,000	
1,2-Dibromo-3-chloropropane	µg/kg	<48	<48	<48	<48	<48	<48	<48	<48	<48	<48	<48	<48	<48	<48	<48	0.2	8	99	
Dibromochloromethane	µg/kg	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	<14	32	933	4,400	
1,4-Dichlorobenzene	µg/kg	<33	<33	<33	<33	<33	<33	<33	<33	<33	<33	<33	<33	41 J	<33	<33	144	3,480	17,500	
1,3-Dichlorobenzene	µg/kg	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	1,152.2	297,000	297,000	
1,2-Dichlorobenzene	µg/kg	<38	<38	<38	<38	<38	59 J	<38	<38	<38	<38	<38	<38	370	<38	<38	1,168	376,000	376,000	
Dichlorodifluoromethane	µg/kg	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	3,082.5	135,000	571,000	
1,2-Dichloroethane	µg/kg	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	<36	2.8	608	3,030	
1,1-Dichloroethane	µg/kg	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	<19	483.6	4,720	23,700	
1,1-Dichloroethene	µg/kg	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	5	342,000	1,190,000	
cis-1,2-Dichloroethene	µg/kg	<b>56 J</b>	<b>58 J</b>	1560	<24	<24	650	<24	<24	1390	<24	<b>151</b>	<b>100</b>	<b>4400</b>	<24	<b>177</b>	41.2	156,000	2,040,000	
trans-1,2-Dichloroethene	µg/kg	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	<29	58.8	211,000	976,000	
1,2-Dichloropropane	µg/kg	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	3.3	1,330	6,620	
2,2-Dichloropropane	µg/kg	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	<46	NS	NS	NS	
1,3-Dichloropropane	µg/kg	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	NS	1,490,000	1,490,000	
Di-isopropyl Ether	µg/kg	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	<11	NS	2,260,000	2,260,000	
EDB (1,2-Dibromoethane)	µg/kg	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	0.0282	47	230	
Ethylbenzene	µg/kg	<10	<10	<10	<10	<10	132	<10	<10	<10	<10	<10	<10	440	<b>8200</b>	16.3 J	290	1,570	7,470	37,000
Hexachlorobutadiene	µg/kg	<95	<95	<95	<95	<95	<95	<95	<95	<95	<95	<95	<95	<95	<95	<95	NS	6,230	22,100	
Isopropylbenzene	µg/kg	<25	<25	<25	<25	<25	<25	<25	<25	27.9 J	<25	<25	27.2 J	284	<25	<25	NS	NS	NS	
p-Isopropyltoluene	µg/kg	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	<31	NS	162,000	162,000	
Methylene chloride	µg/kg	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	<57	2.6	60,700	1,070,000	
Methyl-tert-butyl-ether	µg/kg	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	27	59,400	293,000	
Naphthalene	µg/kg	<114	<114	<114	<114	<114	<114	<114	<114	<114	<114	<114	<114	<114	<114	<114	658.7	5,150	26,000	
n-Propylbenzene	µg/kg	<24	<24	<24	<24	<24	56 J	<24	<24	<24	<24	<24	<24	430	<24	<24	NS	264,000	264,000	
1,1,2,2-Tetrachloroethane	µg/kg	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	0.2	753	3,690	
1,1,1,2-Tetrachloroethane	µg/kg	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	53.3	2,590	12,900	
Tetrachloroethene (PCE)	µg/kg	<b>350</b>	<b>1030</b>	<b>11900</b>	<b>8400</b>	<b>27000</b>	<b>32000</b>	<b>6100</b>	<b>46000</b>	<b>89000</b>	<b>2570</b>	<b>14400</b>	<b>27900</b>	<b>4700</b>	<b>293</b>	<b>500</b>	4.5	30,700	153,000	
Toluene	µg/kg	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	204	<20	<20	1,107.2	818,000	818,000	
1,2,4-Trichlorobenzene	µg/kg	<79	<79	<79	<79	<79	<79	<79	<79	<79	<79	<79	<79	<79	<79	<79	408	22,100	98,700	
1,2,3-Trichlorobenzene	µg/kg	<129	<129	<129	<129	<129	<129	<129	<129	<129	<129	<129	<129	<129	<129	<129	NS	48,900	151,000	
1,1,1-Trichloroethane	µg/kg	<38	<38	<38	<38	<38	<38	<38	<38	265	<38	<38	<38	<38	<38	<38	140.2	640,000	640,000	
1,1,2-Trichloroethane	µg/kg	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	<23	3.2	1,480	7,340	
Trichloroethene (TCE)	µg/kg	<b>210</b>	<b>83 J</b>	1230	<b>233</b>	<b>304</b>	4000	<b>29.9 J</b>	<b>64 J</b>	2980	<b>310</b>	<b>1540</b>	<b>[2820]</b>	<b>860</b>	<b>40 J</b>	<b>88</b>	3.6	1260	8,810	
Trichlorofluoromethane	µg/kg	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86	<86	NS	1,120,000	1,230,000	
1,2,4-Trimethylbenzene	µg/kg	<26	<26	<26	<26	<26	78 J	<26	<26	<26	<26	<26	67 J	790	<26	57 J	1,379.3	89,800	219,000	
1,3,5-Trimethylbenzene	µg/kg	<26	<26	<26	<26	<26	63 J	<26	<26	<26	<26	<26	<26	350	<26	<26		182,000	182,000	
Vinyl Chloride	µg/kg	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	<21	0.1	67	2,030	
Xylenes (total)	µg/kg	<99	<99	<99	<99	<99	710	<99	<99	2,510	<99	<99	<99	2,090	<b>24300</b>	<99	3,940	258,000	258,000	
<b>Cumulative DC RCL Exceeded (Y/N)?</b>																	---	---	---	
<b>Total VOCs</b>		616	1171	14690	8633	27304	37,748	6129.9	46064	96173	2880	16091	33,444	44,929	349.3	2,262				

Notes:

- Unsaturated/smear zone versus saturated soil conditions based on: (1) measured water levels in adjacent/nearby monitoring wells, (2) soil moisture conditions recorded on soil boring logs, and/or (3) soil moisture contents reported on laboratory analytical reports.
- Analytical units:  
µg/kg = micrograms per kilogram (equivalent to parts per billion, ppb)  
mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
- NA = not analyzed
- Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater as described in NR 720.10. Current RCLs based on WDNR's RCL Spreadsheet (dated December 2013) as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated January 23, 2014.
- Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as described in NR 720.12. Current RCLs based on WDNR's RCL Spreadsheet (dated December 2014) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated January 23, 2014.
- Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as described in NR 720.12. Current RCLs based on WDNR's RCL Spreadsheet (dated December 2014) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated January 23, 2014.
- NS = no standard established
- Laboratory flags:  
**"J"** = Analyte detected between Limit of Detection and Limit of Quantitation  
Enter other flags as necessary
- Exceedances:  
**BOLD** = Concentration exceeds Groundwater Pathway RCL (unsaturated soil samples only)  
**[ ]** = Concentration exceeds Non-Industrial OR Industrial Direct Contact RCL (shallow, unsaturated soil samples only)







**Table 6 (contd.)  
Pre-Remedial Soil Analytical Table  
Whitefish Bay Landfill - 5201 West Good Hope Road, Milwaukee, Wisconsin  
Sigma Project No. 14411**

Soil Sample Location:	B-26	B-27	B-28	B-29	B-30	B-31		Groundwater Pathway RCL <sup>4</sup>	Non-Industrial Direct Contact RCL <sup>5</sup>	Industrial Direct Contact RCL <sup>6</sup>	
Sample Depth (feet bgs):	2-4	10-12	10-12	8-10	10-12	4-5	10-12				
Sample Collection Date:	5/28/14	6/16/14	6/16/14	6/16/14	6/16/14	6/16/14	6/16/14				
Depth to Groundwater (feet bgs):											
Unsaturated/Smear Zone (U) or Saturated (S):	U	S	S	S	U	U	S				
Organic Vapor Monitor	ppm	34.9	20.9	130	25	30	377	54	NS	NS	NS
<b>PVOCs &amp; Detected VOCs</b>											
Benzene	µg/kg	<9.2	<9.2	<460	<9.2	<460	<9.2	<460	5	1,490	7,410
Bromobenzene	µg/kg	<13	<13	<650	<13	<650	<13	<650	NS	354,000	679,000
Bromodichloromethane	µg/kg	<27	<27	<1350	<27	<1350	<27	<1350	0	390	1,960
Bromoform	µg/kg	<30	<30	<1500	<30	<1500	<30	<1500	2	61,600	218,000
tert-Butylbenzene	µg/kg	<20	<20	<1000	<20	<1000	21.8 J	<1000	NS	183,000	183,000
sec-Butylbenzene	µg/kg	<41	<41	<2050	44 J	<2050	420	<2050	NS	145,000	145,000
n-Butylbenzene	µg/kg	<26	<26	<1300	89	<1300	780	<1300	NS	108,000	108,000
Carbon tetrachloride	µg/kg	<25	<25	<1250	<25	<1250	<25	<1250	4	854	4,250
Chlorobenzene	µg/kg	<16	<16	<800	<16	<800	<16	<800	NS	392,000	761,000
Chloroethane	µg/kg	<42	<42	<2100	<42	<2100	<42	<2100	227	NS	NS
Chloroform	µg/kg	<49	<49	<2450	<49	<2450	<49	<2450	3	423	2,130
Chloromethane	µg/kg	<181	<245	<12250	<245	<12250	<245	<12250	16	171,000	720,000
2-Chlorotoluene	µg/kg	<16	<16	<800	<16	<800	<16	<800	NS	907,000	907,000
4-Chlorotoluene	µg/kg	<14	<14	<700	<14	<700	<14	<700	NS	253,000	253,000
1,2-Dibromo-3-chloropropane	µg/kg	<48	<48	<2400	<48	<2400	<48	<2400	0	8	99
Dibromochloromethane	µg/kg	<14	<14	<700	<14	<700	<14	<700	32	933	4,400
1,4-Dichlorobenzene	µg/kg	<33	<33	<1650	<33	<1650	<33	<1650	144	3,480	17,500
1,3-Dichlorobenzene	µg/kg	<30	<30	<1500	<30	<1500	<30	<1500	1,152	297,000	297,000
1,2-Dichlorobenzene	µg/kg	<38	<38	<1900	<38	<1900	<38	<1900	1,168	376,000	376,000
Dichlorodifluoromethane	µg/kg	<57	<57	<2850	<57	<2850	<57	<2850	3,083	135,000	571,000
1,2-Dichloroethane	µg/kg	<36	<36	<1800	<36	<1800	<36	<1800	3	608	3,030
1,1-Dichloroethane	µg/kg	<19	<19	<950	<19	<950	<19	<950	484	4,720	23,700
1,1-Dichloroethene	µg/kg	<21	<21	<1050	<21	<1050	<21	<1050	5	342,000	1,190,000
cis-1,2-Dichloroethene	µg/kg	<b>30.5 J</b>	<b>4,300</b>	2370 J	43 J	<1200	<24	<1200	41	156,000	2,040,000
trans-1,2-Dichloroethene	µg/kg	<29	83 J	<1450	<29	<1450	<29	<1450	59	211,000	976,000
1,2-Dichloropropane	µg/kg	<9.5	<9.5	<475	<9.5	<475	<9.5	<475	3	1,330	6,620
2,2-Dichloropropane	µg/kg	<46	<46	<2300	<46	<2300	<46	<2300	NS	NS	NS
1,3-Dichloropropane	µg/kg	<21	<21	<1050	<21	<1050	<21	<1050	NS	1,490,000	1,490,000
Di-isopropyl Ether	µg/kg	<11	<11	<550	<11	<550	<11	<550	NS	2,260,000	2,260,000
EDB (1,2-Dibromoethane)	µg/kg	<20	<20	<1000	<20	<1000	<20	<1000	0	47	230
Ethylbenzene	µg/kg	<10	210	940 J	5,100	<500	249	<500	1,570	7,470	37,000
Hexachlorobutadiene	µg/kg	<95	<95	<4750	<95	<4750	<95	<4750	NS	6,230	22,100
Isopropylbenzene	µg/kg	<25	196	<1250	173	<1250	580	<1250	NS	NS	NS
p-Isopropyltoluene	µg/kg	<31	<31	<1550	42 J	<1550	740	<1550	NS	162,000	162,000
Methylene chloride	µg/kg	<57	<221	<11050	<221	<11050	<221	<11050	3	60,700	1,070,000
Methyl-tert-butyl-ether	µg/kg	<30	<30	<1500	<30	<1500	<30	<1500	27	59,400	293,000
Naphthalene	µg/kg	<114	<114	<5700	202 J	<5700	1,280	<5700	659	5,150	26,000
n-Propylbenzene	µg/kg	<24	159	<1200	470	<1200	830	<1200	NS	264,000	264,000
1,1,2,2-Tetrachloroethane	µg/kg	<12	<12	<600	<12	<600	<12	<600	0	753	3,690
1,1,1,2-Tetrachloroethane	µg/kg	<23	<23	<1150	<23	<1150	<23	<1150	53	2,590	12,900
Tetrachloroethene (PCE)	µg/kg	<b>12,100</b>	<b>3,700</b>	<b>43,000</b>	<49	<b>37,000</b>	233	<b>86,000</b>	5	30,700	153,000
Toluene	µg/kg	<20	<20	<1000	<20	<1000	<20	<1000	1,107	818,000	818,000
1,2,4-Trichlorobenzene	µg/kg	<79	<79	<3950	<79	<3950	<79	<3950	408	22,100	98,700
1,2,3-Trichlorobenzene	µg/kg	<129	<129	<6450	<129	<6450	<129	<6450	NS	48,900	151,000
1,1,1-Trichloroethane	µg/kg	<38	<38	<1900	<38	<1900	<38	<1900	140	640,000	640,000
1,1,2-Trichloroethane	µg/kg	<23	<23	<1150	<23	<1150	<23	<1150	3	1,480	7,340
Trichloroethene (TCE)	µg/kg	<b>1,100</b>	<b>2,040</b>	<b>39,000</b>	<b>62 J</b>	<b>3500 J</b>	<28	<b>2160 J</b>	3.6	1,260	8,810
Trichlorofluoromethane	µg/kg	<86	<86	<4300	<86	<4300	<86	<4300	NS	1,120,000	1,230,000
1,2,4-Trimethylbenzene	µg/kg	<26	660	<1300	1,500	<1300	41 J	<1300	1,379	89,800	219,000
1,3,5-Trimethylbenzene	µg/kg	<26	<26	<1300	550	<1300	<26	<1300		182,000	182,000
Vinyl Chloride	µg/kg	<21	<21	<1050	<21	<1050	<21	<1050	0.1	67	2,030
Xylenes (total)	µg/kg	52 J	227 J	<4450	10,300	<4950	<99	<4950	3,940	258,000	258,000
<b>Cumulative DC RCL Exceeded (Y/N)?</b>									---	---	---
<b>Total VOCs</b>		13,200	11,575	85,310	18,575	40,500	5,174.8	88,160			

Notes:

- Unsaturated/smear zone versus saturated soil conditions based on: (1) measured water levels in adjacent/nearby monitoring wells, (2) soil moisture conditions recorded on soil boring logs, and/or (3) soil moisture contents reported on laboratory analytical reports.
- Analytical units:  
µg/kg = micrograms per kilogram (equivalent to parts per billion, ppb)  
mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
- NA = not analyzed
- Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater as described in NR 720.10. Current RCLs based on WDNR's RCL Spreadsheet (dated December 2013) as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated January 23, 2014.
- Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as described in NR 720.12. Current RCLs based on WDNR's RCL Spreadsheet (dated December 2013) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated January 23, 2014.
- Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as described in NR 720.12. Current RCLs based on WDNR's RCL Spreadsheet (dated December 2013) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated January 23, 2014.
- NS = no standard established
- Laboratory flags:  
"J" = Analyte detected between Limit of Detection and Limit of Quantitation  
Enter other flags as necessary
- Exceedances:  
BOLD = Concentration exceeds Groundwater Pathway RCL (unsaturated soil samples only)  
[ ] = Concentration exceeds Non-Industrial OR Industrial Direct Contact RCL (shallow, unsaturated soil samples only)
- \* = PID measured using 10.6 ev lamp instead of 11.7 ev

## **APPENDICES**

**APPENDIX A**  
**GROUNDWATER SAMPLING FIELD LOGS**





**SIGMA ENVIRONMENTAL SERVICES, INC.**  
**REQUEST FOR GROUNDWATER SERVICES**

Project #	14411	Phase	001	Task	FLD	Budget	2-3 days
Project Manager Signature	Mafizul Islam						
Field Crew Signature	_____						
Company	Good Hope Road Landfill Site	Date Issued	6/12/2014	By	Daniel Schwartz		
Address	5201 W. Good Hope Road	Route Notes To	Mafizul Islam				
City, State	Milwaukee	Phone	_____				
Contact	_____	By	DD/DK	Date	6-23-14	6-24-14	
Date of Service	June 2014 (Wed June 18)	Log #	495	6-25-14	6-26-14		
Confirmed by: (date)	_____			6-27-14			

**Services Requested:**

<input checked="" type="checkbox"/>	Water Levels (all wells unless noted otherwise)	<input checked="" type="checkbox"/>	Dissolved Oxygen (see list)
_____	Product Levels (as indicated)	<input checked="" type="checkbox"/>	Redox (see list)
_____	Well Abandonment (see list)	<input checked="" type="checkbox"/>	pH
_____	Well Development	<input checked="" type="checkbox"/>	Ferrous Iron (see list)
<input checked="" type="checkbox"/>	Well Sampling (see list)	<input checked="" type="checkbox"/>	Temperature
_____	Surveying (see list)	<input checked="" type="checkbox"/>	Conductivity

**Laboratory Information**

Sample Destination / Lab Bid#	Synergy Lab	Name of Laboratory	_____
Sample Supplies Order/By/Date	DJS 6-12-14	Date / Name	_____
Route Results To:	Mafizul Islam		

Analytes	Landfill Monitoring Wells			Off-site Monitoring Wells	
	MW-A, PZ-A, MW-C, PZ-C, MW-D, PZ-D & MW-E	MW-4, MW-6, W-MW-4S, W-MW-4D, W-MW-5S, W-MW-10, W-MW-11, MW-18, MW-22	MW-25, MW-26	MPS-MW-2, MPS-P-2, MPS-P-3, MPS-P-4, MPS-P-5, MPS-P-6 & MPS-P-7	MW-8, PZ-8, MW-9, PZ-9, MW-10, PZ-10, MW-11 & PZ-11
VOC	X	X	X	X	X
Alkalinity, Chloride, Hardness, Boron, Cadmium, Lead, Selenium & Sulfate	X	X	X	X	X
WATER LEVEL	X	X	X	X	X
DO, REDOX, pH, Temp & Cond.	X	X	X	X	X
Fe+ Iron	X	X	X	X	X

**Development / Purge Water**

**Invoicing / Purge Water**

<input checked="" type="checkbox"/> Transport to Port Washington	_____ Sigma
_____ Leave on site	_____ Other
_____ Sample Water	

**Notes:**

- Bring 4x4 truck to move within the landfill site.
- Mix purge water with potassium permanganate (1 cup per drum of purge water) and take to the Port Wash. Treatment Plant.
- Attach WDNR well ID stickers to pvc well casings (see attached sheet)
- Well W-MW-5S was unable to be located during the last sampling event due to snow. Make an attempt to locate it this time - it may or may not be intact.

6-23-14 Goodhope Rd. Landfill Site

# 14411 001

5201 W. Goodhope Rd.  
Milw. WI

→ Took water levels and In-situ data at: MW-22, PZ-D, MW-D, MW-11, MPS-P-2, MW-E, MW-6, W-MW-10, MW-4, MW-8, PZ-A, MW-18, W-mw-40, W mw-45, MPS-P-5, MPS P-4, MW-26, MPS-P-3, MPS-Mw 3,

6-24-14

→ Took water levels and In-situ data at: MPS-P-6,

MPS-P-7, MW-10, PZ-10, PZ-9, MW-9, MW-11, PZ-11, PZ-8, MW-8.

→ Put All DNR stickers on wells on the list.

→ So Far can not locate W-MW-55, MW-C, PZ-C → Located on 6-25-14

→ Sampled MW-25 with Presidio wells on 6-24-14 for VOC, Alkalinity, Chloride, Hardness, Boron, Cadmium, Lead, Selenium, & Sulfate

\*\* MW-25 was on Both paper work "Presidio" and Landfill site to be sampled.

\*\* MW-B, PZ-B Both Filled with Bentonite

\*\* MPS-MW-2; MW-E, ~~MW-E~~ Are Dry.

6-25-14

→ Purged and Sampled MW-22, MW-D, PZ-D,

MPS-P-2, MW-26, W-mw-11, W-mw-10, mw-4, MPS-MW-3, MPS-P-3, MW-C, PZ-C, MW-A and PZ-A for VOC, Alkalinity, Chloride, Hardness, Boron, Cadmium, Lead, Selenium and Sulfate.

\* Dup. # 1 at MW-4 Dup. # 2 at MPS-MW-3

6-26-14

→ Purged and Sampled MW-18, MW-6, W-mw-45, W-mw-40, W-mw-55, ~~MPS-P-4~~, MPS-P-4, MPS-P-5, MPS-P-6 & MPS-P-7,

for VOC, Alkalinity, Hardness, Boron, Cadmium, Lead, Selenium, Chloride.

\*\* Dup. # 3 at W-mw-40.

\*\* Purge water from 6-25-14 taken to Port Washington W.W.T.P.

\*\* Mixed with 1 cup permanganate.

6 logs.

In on 6-26-14

Continued on Page \_\_\_\_\_

6-27-14 Goodhope Rd. Landfill site # 14411 001

5201 W. Goodhope Rd.  
Milw. WI

→ Purged and Sampled PZ-9, MW-9, MW-10, PZ-10,  
MW-11, PZ-11, MW-8 and PZ-8 for VOC, Alkalinity, Hardness, Boron,  
Cadmium, Lead, Selenium, & Chloride.

→ All samples from this site to "Synergy Labs" in Appleton, WI

\*\* ON 6-26-14 W-MW-55 was found; it was ~~also~~ originally  
labeled MW-4 (W-MW-55 is a newer stick-up) (MW-4 is  
an older stick-up with a screw on cap.)

→ All purge water drummed and taken to Port Washington W.W.T.P.

185 gals. ← In on 6-27-14

\*\* 251 gallons total (66 gals taken in on 6-26-14)

Continued on Page \_\_\_\_\_

P. Parley  
Signed

6-27-14  
Date

Read and Understood By

Signed

Date



SUMMARY SHEET FOR GROUNDWATER SERVICES

Project # 14411 Date 6-23-14 / 6-24-14 / 6-25-14  
 Project Name: Goodhope Rd. Landfill site  
 Project Location: 5201 W. Goodhope Rd, Milw. WI  
 Weather: Overcast, fog, 65°F Field Service Personnel: DD / DK  
 Analytes: \_\_\_\_\_  
 Purging Device / Sampling Device  
 Type of Device: Disposable Bailor / Peristaltic Pump  
 How was Device Decontaminated: Sigma's Standard Operating Procedures  
 How was the Line Decontaminated: New Line / New Tubing

Well Volume	Monitoring Well IDs									
	MW-22	PZ-D	MW-D	MW-11	MPS-P2	MPS MW-3	MW-E	<del>MW-B</del>	MW-10	MW-4
Well Diameter	2"	2"	2"	2"	2"	2"	2"	<del>2"</del>	2"	2"
Stickup/Flushmount	stick-up	stick-up	stick-up	stick-up	stick-up	stick-up	stick-up	<del>stick-up</del>	stick-up	stick-up
Depth to Bottom (ft)	28.70	31.75	19.40	27.85	33.10	10.90	19.00	<del>22.45</del>	30.40	20.40
Depth to Water (ft)	25.72	25.43	11.69	21.51	20.38	DRY	DRY	<del>6.00</del>	24.87	14.54
Length of Water (ft)	2.98	6.32	7.71	6.34	12.72				5.53	5.86
Volume (gal)	0.47	1.0	1.23	1.0	2.0				0.88	0.93
x4	2.0	4.0	5.0	4.0	8.0				3.5	3.7
Time Purged										
Time Sampled	10:45	11:12	10:57	12:34	11:37				12:40	1:22

In-Situ Testing										
D.O. (mg/l)	2.4	3.40	5.0	1.4	8.2				4.90	6.40
Redox (mV)	+312	+185	+263	+230	+244				+242	+207
pH (S.U.)	7.2	7.0	6.8	6.8	7.0				6.9	7.3
Conductivity (uS/cm)	2.12	2.64	1.41	3.37	2.21				3.47	0.95
Ferrous Fe (mg/L)	2.0	4.0	0.0	0.0	2.6				1.2	0.0
Temperature (°C)	9.9	9.2	9.1	9.1	8.7				9.4	10.7
Turbidity (C/T/O)	clear	clear	clear	clear	clear				clear	S.T.
Odor (Y or N)	NO	NO	NO	NO	NO				NO	NO
Volume (Gallons)	2.0	4.0	5.0	4.0	8.0				3.5	4.0
Well Recovery	going dry	good	fair	good	fair				good	good

Note: Above is for one well volume.

Well Size	Gallons/L. linear Foot
2 inch	x 0.16
4 inch	x 0.65
6 inch	x 1.47

Notes  
 \* MW-B Filled with bentonite  
 \* PZ-B Filled with bentonite  
 \* Dup. #1 at MW-4

Project # 14411 Date 6-23-14

Project Name: Goodhope Rd. Landfill site

Project Location: 5201 W. Goodhope Rd, Milw. WI

Weather: \_\_\_\_\_ Field Service Personnel: DD/DK

Analytes: \_\_\_\_\_

Purging Device / Sampling Device

Type of Device: Disposable Bailor / Peristaltic Pump

How was Device Decontaminated: Sigma's Standard Operating Procedures

How was the Line Decontaminated: New Line / New Tubing

Well Volume	Monitoring Well IDs							<del>MW-53</del>	MW-26	MPS
	MW-A	PZ-A	mw-18	W-mw-45	W-mw-40	MPS-P-5	MPS-P-4			
Well Diameter	2"	2"	2"	2"	2"	2"	2"	<del>2"</del>	2"	2"
Stickup/Flushmount	stick-up	stick-up	stick-up	stick-up	stick-up	Flush	Flush	<del>stick-up</del>	stick-up	stick-up
Depth to Bottom (ft)	12.15	19.95	27.10	17.75	22.35	76.00	32.45	<del>2</del>	24.05	31.90
Depth to Water (ft)	10.65	13.24	17.52	11.77	13.25	20.64	19.85	<del>1</del>	18.68	13.25
Length of Water (ft)	1.5	6.71	9.58	5.98	9.1	55.36	12.6	<del>1</del>	5.37	18.65
Volume (gal)	0.24	1.0	1.5	0.95	1.45	8.85	2.0	<del>1</del>	0.86	3.0
x4	0.96	4.0	6.13	3.8	5.8	35.4	8.0	<del>1</del>	3.4	12.0
Time Purged								<del>1</del>		
Time Sampled	3:15	3:20	10:17	11:30	11:20	1:35	1:25	<del>1</del>	6:05	7:00

In-Situ Testing										
D.O. (mg/l)	3.0	1.21	3.20	5.71	1.0	3.0	1.35	<del>1</del>	5.50	4.70
Redox (mV)	+207	+125	+140	+135	+55	+225	+181	<del>1</del>	+165	+325
pH (S.U.)	6.7	7.2	6.9	7.4	7.1	7.4	7.1	<del>1</del>	7.4	7.4
Conductivity (uS/cm)	1.42	1.32	2.52	5.61	3.75	1.81	2.55	<del>1</del>	0.78	2.03
Ferrous Fe (mg/L)	0.0	6.6	4.8	0.0	6.8	3.0	4.4	<del>1</del>	0.0	0.0
Temperature (°C)	9.2	9.1	10.1	6.4	6.8	9.9	9.4	<del>1</del>	12.2	8.9
Turbidity (NTU)	clear	Turbid	clear	clear	clear	clear	clear	<del>1</del>	clear	clear
Odor (Y or N)	NO	Slight Decay	NO	NO	NO	NO	NO	<del>1</del>	NO	NO
Volume (Gallons)	0.25	2.0	6.0	4.0	6.0	35.0	8.0	<del>1</del>	3.5	17.0
Well Recovery	Dry	going Dry	Fair	fair	fair	Good	Good	<del>1</del>	Good	fair

Note: Above is for one well volume.

Well Size	Gallons/Linear Foot
2 inch	x 0.16
4 inch	x 0.65
6 inch	x 1.47

Notes

\* Have to bring a 1 Liter bottle to MW-A and Fill up  
 " " PZ-A and Fill up

\* Dup. #3 poured at W-mw-40

Project # 14411 Date 6-23-14 / 6-24-14

Project Name: Goodhope Rd Landfill site

Project Location: 5201 W. Goodhope Rd, Milw. WI

Weather: \_\_\_\_\_ Field Service Personnel: DD/DK

Analytes: \_\_\_\_\_

Purging Device / Sampling Device

Type of Device: Disposable Bailer Peristaltic Pump

How was Device Decontaminated: Sigma's Standard Operating Procedures

How was the Line Decontaminated: New Line New Tubing

Well Volume	MPS	MPS	MPS	i	Monitoring Well IDs					
	MW-3	P-6	P-7	MW-10	P2-10	P2-9	MW-9	MW-11	P2-11	P2-8
Well Diameter	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
Stickup/Flushmount	stick-up	Flush	Flush	Flush	Flush	Flush	Flush	Flush	Flush	Flush
Depth to Bottom (ft)	11.05	19.75	41.65	19.50	42.90	60.20	19.85	18.00	48.60	46.70
Depth to Water (ft)	3.25	10.11	10.37	11.17	9.33	10.75	3.38	8.55	8.35	12.05
Length of Water (ft)	7.80	9.64	31.28	8.33	33.57	49.45	16.47	9.45	40.25	54.65
Volume (gal)	1.25	1.54	5.0	1.33	5.37	8.0	2.6	1.5	6.44	8.74
x4	5.0	6.0	20.0	5.3	21.5	32.0	10.5	6.0	25.76	35.0
Time Purged										
Time Sampled	2:15	2:05	2:15	7:00	7:30	8:40	8:30	9:15	9:35	10:00

In-Situ Testing										
D.O. (mg/l)	4.6	1.45	2.04	1.04	3.64	2.0	4.0	4.0	5.8	4.7
Redox (mV)	+380	+100	+61	+215	+199	+290	+375	+350	+318	+290
pH (S.U.)	7.4	7.6	7.4	7.3	7.2	7.5	7.3	7.2	7.1	7.6
Conductivity (uS/cm)	0.617	2.00	1.11	2.25	2.14	0.191	0.81	2.23	2.68	0.93
Ferrous Fe (mg/L)	0.0	3.8	0.0	0.0	0.0	3.4	0.0	9.0	7.4	2.2
Temperature (°C)	12.0	11.8	11.8	12.0	10.9	9.1	13.8	11.0	11.4	10.2
Turbidity (NTU)	clear	clear	clear	Turbid	clear	Milky cloudy	clear	clear	clear	clear
Odor (Y or N)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Volume (Gallons)	5.0	6.0	6.0	5.5	6.0	32.0	10.5	6.0	25.0	20.0
Well Recovery	Fair	Good	going Dry	Good	going Dry	Good	good	good	good	going on

Note: Above is for one well volume.

Well Size		Gallons/Linear Foot
2 inch	x	0.16
4 inch	x	0.65
6 inch	x	1.47

Notes #2

\* dup. poured at mps-mw-3



SUMMARY SHEET FOR GROUNDWATER SERVICES

Project # 14411 Date 6-24-14

Project Name: Goodhope Rd. Landfill Site

Project Location: 5201 W. Goodhope Rd. Milw. WI

Weather: \_\_\_\_\_ Field Service Personnel: PO/ZS/DK

Analytes: \_\_\_\_\_

Purging Device / Sampling Device

Type of Device: Disposable Bailor / Peristaltic Pump

How was Device Decontaminated: Sigma's Standard Operating Procedures

How was the Line Decontaminated: New Line / New Tubing

Well Volume	Monitoring Well IDs						
	MW-8	<del>MW-C</del>	P2-C	MW-C	MW-6	<del>MW-6</del>	MW-55
Well Diameter	2"	<del>2"</del>	2"	2"	2"	<del>2"</del>	2"
Stickup/Flushmount	Flush	<del>Stick-up</del>	Stick-up	Stick-up	stick-up	<del>stick-up</del>	stick-up
Depth to Bottom (ft)	19.90	<del>21.75</del>	26.10	16.50	22.25		17.55
Depth to Water (ft)	12.50	<del>16.39</del>	16.39	7.23	18.04		12.87
Length of Water (ft)	7.34		9.71	9.27	4.21		4.68
Volume (gal)	1.17		1.60	1.5	0.67		0.75
x4	4.7		6.4	6.0	2.7		3.0
Time Purged							
Time Sampled	10:20		2:30	2:40	10:40		12:30

In-Situ Testing							
D.O. (mg/l)	2.4		2.1	2.0	3.2		1.0
Redox (mV)	+315		-56.0	-32.8	+262		-10
pH (S.U.)	7.5		7.6	7.1	7.0		8.0
Conductivity (uS/cm)	2.51		2.23	1.31	2.63		1.05
Ferrous Fe (mg/L)	0.0		4.4	0.0	0.0		0.0
Temperature (°C)	10.1		9.1	10.0	10.5		10.6
Turbidity (C/T/O)	S.T.		clear	clear	clear Tint		clear
Odor (Y or N)	No		No	No	No		No
Volume (Gallons)	5.0		6.5	6.0	0.50		3.0
Well Recovery	good		good	good	going Dry		fair

Note: Above is for one well volume.

Well Size

2 inch x  
4 inch x  
6 inch x

Gallons/Linear Foot

0.16  
0.65  
1.47

Notes



**SIGMA ENVIRONMENTAL SERVICES, INC.**  
**REQUEST FOR GROUNDWATER SERVICES**

Project #	<u>14411</u>	Phase	<u>001</u>	Task	<u>FLD</u>	Budget	<u>2-3 days</u>
Project Manager Signature	<u>Mafizul Islam</u>						
Field Crew Signature	_____						
Company	<u>Good Hope Road Landfill Site</u>	Date Issued	<u>12/8/2013</u>	By	<u>Mafizul Islam</u>		
Address	<u>5201 W. Good Hope Road</u>	Route Notes To	<u>Mafizul</u>				
City, State	<u>Milwaukee</u>	Phone	_____				
Contact	_____	By	_____	Date	_____		
Date of Service	<u>Tuesday, December 17, 2013</u>	Log #	_____				
Confirmed by: (date)	_____						

**Services Requested:**

<input checked="" type="checkbox"/>	Water Levels (all wells unless noted otherwise)	<input checked="" type="checkbox"/>	Dissolved Oxygen (see list)
_____	Product Levels (as indicated)	<input checked="" type="checkbox"/>	Redox (see list)
_____	Well Abandonment (see list)	<input checked="" type="checkbox"/>	pH
<input checked="" type="checkbox"/>	Well Development	<input checked="" type="checkbox"/>	Ferrous Iron (see list)
<input checked="" type="checkbox"/>	Well Sampling (see list)	<input checked="" type="checkbox"/>	Temperature
_____	Surveying (see list)	<input checked="" type="checkbox"/>	Conductivity

**Laboratory Information**

Sample Destination / Lab Bid#	<u>Synergy Lab</u>	Name of Laboratory	_____
Sample Supplies Order/By/Date	<u>MI</u>	Date / Name	_____
Route Results To:	<u>Mafizul Islam</u>		

Analytes	Landfill Monitoring Wells		Off-site Monitoring Wells		
	MW-A, PZ-A, MW-B, PZ-B, MW-C, PZ-C, MW-D, PZ-D & MW-E	MW-4, MW-6, W-MW-4S, W-MW-4D, W-MW-5S, W-MW-10, W-MW-11, MW-18, MW-22	MW-25, MW-26	MPS:MW-2, MPS:P-2, MPS:MW-3, MPS:P-3, MPS:P-4, MPS:P-5, MPS:P-6 & MPS:P-7	MW-8, PZ-8, MW-9, PZ-9, MW-10, PZ-10, MW-11 & PZ-11
VOC	X	X	X	X	X
Alkalinity, Chloride, Hardness, Boron Cadmium, Lead Selenium & Sulfate	X	X	X	X	X
WATER LEVEL	X	X	X	X	X
DO, REDOX, pH, Temp & Cond.	X	X	X	X	X
Fe+ Iron	X	X	X	X	X

**Development / Purge Water**

<input checked="" type="checkbox"/>	Transport to Port Washington
_____	Leave on site
_____	Sample Water

**Invoicing / Purge Water**

_____	Sigma
_____	Other

**Notes:**

- 1. Bring a LARGE MACHETE or a chain saw to clear some branches for accessing MW-4, MW-6, & MW-11 and 4-wheel drive truck to move within the landfill site.*
- 2. Mix purge water with potassium permanganate (1 cup per drum of purge water) and take to the Port Wash. Treatment Plant.*

SIGMA PROJECT # 11461  
 GOOD HOPE ROAD LANDFILL  
 5201 WEST GOOD HOPE ROAD

12/17, 12/18, 12/19, 2013

MILWAUKEE, WI

PERSONNEL - TOM McLOY  
 - DAN SCHWARTZ

TASKS \* WATER LEVELS / TOTAL DEPTHS  
 \* IN-SITU PARAMETERS  
 \* GROUNDWATER SAMPLING

- MEASURED AND RECORDED WATER LEVELS AND TOTAL DEPTHS AND OBTAINED IN-SITU BIO PARAMETERS AT MONITORING WELLS MW-8, PZ-8, MW-9, PZ-9, MW-10, PZ-10, MW-11, PZ-11, MW-25, MW-26, MPS:P-2, MPS:P-3, MPS:P-4, MPS:P-5, MPS:P-6, MPS:P-7, PZ-A, PZ-C, PZ-D, MW-4, W-MW-4S, W-MW-4D, W-MW-10, W-MW-11 AND MW-18.
- CALCULATED REQUIRED PURGE AMOUNTS AT FOUR BORE VOLUMES.
- MONITORING WELLS MPS:MW-2, MW-A, MW-C, MW-D, MW-E, MW-6 AND MW-22 ARE DRY.
- MONITORING WELLS MPS:MW-3, MW-B AND PZ-B HAD OBSTRUCTION/FILLED WITH DEBRIS.
- MONITORING WELL W-MW-5S WAS NOT LOCATED.
- COLLECTED GROUNDWATER SAMPLES FROM MONITORING WELLS MW-8, PZ-8, MW-9, PZ-9, MW-10, PZ-10, MW-11, PZ-11, MW-25, MW-26, MPS:P-2, MPS:P-3, MPS:P-4, MPS:P-5, MPS:P-6, MPS:P-7, PZ-A, PZ-C, PZ-D, MW-4, W-MW-4S, W-MW-4D, W-MW-10, W-MW-11 AND MW-18.
- DUPLICATE SAMPLES WERE TAKEN AT MONITORING WELLS:
  - Duplicate #1 - MPS:P-4 12/17
  - Duplicate #2 - MW-26 12/18
  - Duplicate #3 - PZ-D 12/19
- FIELD FILTERED ALL "DISSOLVED METAL" SAMPLES USING DISPOSABLE 0.45 MICRON FILTERS.
- ALL PURGE WATER WAS CONTAINED IN 3 - 55 GALLON DRUMS AND TRANSPORTED TO PORT WASHINGTON WASTEWATER TREATMENT FACILITY FOR DISPOSAL. TOTAL PURGE AMOUNT - 112.75 GALLONS.

Continued on Page \_\_\_\_\_

Read and Understood By \_\_\_\_\_

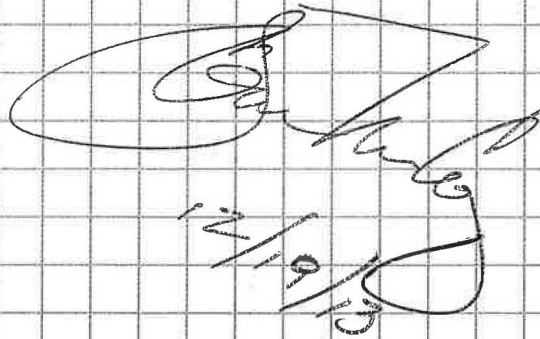
Signed \_\_\_\_\_

Date \_\_\_\_\_

Signed \_\_\_\_\_

Date \_\_\_\_\_

- SAMPLES WERE SHIPPED TO SYNERGY LABS, VIA DUNHAM EXPRESS, TO BE ANALYZED FOR VOC (8260), SULFATE, ALKALINITY, CHLORIDE, DISSOLVED HARDNESS, DISSOLVED BORON, DISSOLVED CADMIUM, DISSOLVED LEAD AND DISSOLVED SELENIUM CONSTITUENTS.
- MONITORING WELL PZ-D PVC PIPE IS BONDED IN FROM ICE FREEZING FROM BETWEEN THE PVC AND STICK UP CASING. USED 1" BAILER FOR PURGING/SAMPLING.
- ABANDONED MONITORING WELLS MW-B AND PZ-B.

  
12/19/13

Continued on Page

Read and Understood By

Signed

Date

Signed

Date



- Sheet of 4 -

Project # 14411 Date \_\_\_\_\_

Project Name: Good Hope Road Landfill Site **"OFF SITE MONITORING WELLS"**

Project Location: 5201 West Good Hope Road Milwaukee, WI

Weather: \_\_\_\_\_ Field Service Personnel: \_\_\_\_\_

Analytes: VOC, Alkalinity, Chloride, Sulfate, Dissolved : Hardness, Boron, Cadmium, Lead, Selenium

Purging Device / Sampling Device

Type of Device: \_\_\_\_\_ Disposable Bailer / Peristaltic Pump X

How was Device Decontaminated: \_\_\_\_\_ Sigma's Standard Operating Procedures X

How was the Line Decontaminated: \_\_\_\_\_ New Line / New Tubing X

Well Volume	Monitoring Well IDs							
	MW-8	PZ-8	MW-9	PZ-9	MW-10	PZ-10	MW-11	PZ-11
Well Diameter	2"	2"	2"	2"	2"	2"	2"	2"
Stickup/Flushmount	FLUSH	FLUSH	FLUSH	FLUSH	FLUSH	FLUSH	FLUSH	FLUSH
Depth to Bottom (ft)	20.00'	67.95'	19.75'	61.20'	19.50'	42.95'	18.20'	49.25'
Depth to Water (ft)	14.98	15.36	13.42	16.27	13.68	12.25	11.64	11.46
Length of Water (ft)	5.02	52.59	5.33	44.93	5.81	30.70	6.56	37.79
Volume (gal)	0.82	8.57	0.93	7.32	0.95	5.00	1.07	6.16
x4	3.27	11.02	3.73	8.03	3.79	7.45	4.28	8.60
Time Purged								
Time Sampled	12:00	12:05	10:15	10:20	9:20	9:30	11:10	11:15

In-Situ Testing	12/17	12/17	12/17	12/17	12/17	12/17	12/17	12/17
D.O. (mg/l)	1.15	1.70	1.11	1.27	1.17	1.40	1.06	1.34
Redox (mV)	+148.0	+107.9	164.2	+134.4	+219.3	+189.1	+165.4	+172.2
pH (S.U.)	8.07	7.91	7.84	8.62	7.69	8.49	7.77	7.76
Conductivity (uS/cm)	1.06	0.71	1.00	0.507	2.115	1.13	1.76	1.71
Ferrous Fe (mg/L)	1.2	0.0	0.0	3.6	0.0	0.0	0.0	4.0
Temperature (°C)	13.7°	12.6°	12.1	11.4	14.0°	13.1°	13.8°	12.7°
Turbidity (C/T/O)	TURBID	SLIGHTLY TURBID	SLIGHTLY TURBID	SLIGHTLY TURBID	TURBID	CLEAR	TURBID	SLIGHTLY TURBID
Odor (Y or N)	-	-	-	-	-	-	-	-
Volume (Gallons)	3.25	11.00	3.75	8.00	4.00	7.50	4.50	8.75
Well Recovery	MODERATE	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD	GOOD

Note: Above is for one well volume.

Well Size

2 inch	x
4 inch	x
6 inch	x

Gallons/Linear Foot

0.16
0.65
1.47

Notes

5075

Project # 14411 Date \_\_\_\_\_

Project Name: Good Hope Road Landfill Site **"OFF SITE MONITORING WELLS"**

Project Location: 5201 West Good Hope Road Milwaukee, WI

Weather: \_\_\_\_\_ Field Service Personnel: \_\_\_\_\_

Analytes: VOC, Alkalinity, Chloride, Sulfate, Dissolved : Hardness, Boron, Cadmium, Lead, Selenium

Purging Device / Sampling Device

Type of Device: \_\_\_\_\_ Disposable Bailer / Peristaltic Pump X

How was Device Decontaminated: \_\_\_\_\_ Sigma's Standard Operating Procedures X

How was the Line Decontaminated: \_\_\_\_\_ New Line / New Tubing X

Well Volume	Monitoring Well IDs									
	MW-25	MW-26	MPS:MW-2	MPS:P-2	MPS:MW-3	MPS:P-3	MPS:P-4	MPS:P-5	MPS:P-6	MPS:P-7
Well Diameter	2"	2"	2"	2"	2"	2"	2"	2"	2"	2"
Stickup/Flushmount	STICK UP	STICK UP	STICK UP	STICK UP	STICK UP	STICK UP	FLUSH	FLUSH	FLUSH	FLUSH
Depth to Bottom (ft)	21.55'	24.00'	16.90'	33.10'	-	31.60	32.70'	76.20'	19.70'	42.15'
Depth to Water (ft)	14.75'	21.79'	DRY	23.38	-	16.54	22.86'	23.38'	13.20	13.49
Length of Water (ft)	6.80	2.21	-	9.72	-	15.26	9.84	52.82	6.5	28.66
Volume (gal)	1.11	0.36	-	1.58	-	2.49	1.60	8.61	1.04	4.67
x4	4.43	1.44	-	6.34	-	4.93	6.42	11.05	4.16	7.12
Time Purged										
Time Sampled	14:05	13:30	-	8:45	-	9:25	13:30	13:20	12:45	12:50

In-Situ Testing	12/17	12/18		12/18		12/18	12/17	12/17	12/17	12/17
D.O. (mg/l)	7.52	1.39	-	2.23	-	2.25	1.26	1.13	1.37	1.29
Redox (mV)	+74.2	+88.0	-	+101.5	-	+94.1	+117.3	+120.2	+89.2	+56.1
pH (S.U.)	7.82	7.65	-	7.12	-	7.76	7.53	7.86	7.97	8.37
Conductivity (uS/cm)	1.24	1.73	-	2.18	-	1.55	1.89	1.50	1.77	1.16
Ferrous Fe (mg/L)	0.0	4.2	-	2.0	-	3.0	2.4	0.0	1.8	0.0
Temperature (°C)	10.8°	10.1°	-	11.1°	-	10.8°	10.9°	10.7°	13.3	12.7
Turbidity (C/T/O)	TURBID	TURBID	-	CLEAR	-	MOSTLY CLEAR	MOSTLY CLEAR	CLEAR	TURBID	CLEAR
Odor (Y or N)	-	-	-	-	-	-	-	-	-	-
Volume (Gallons)	4.50	1.00	-	6.5	-	5.00	6.50	11.00	4.5	7.25
Well Recovery	GOOD	SLOW	-	GOOD	-	GOOD	GOOD	GOOD	GOOD	MODERATE

Note: Above is for one well volume. Well Size Gallons/Linear Foot

2 inch	x	0.16
4 inch	x	0.65
6 inch	x	1.47

Notes

DUPPLICATE #1 TAKEN AT MPS:P-4 12/17

DUPPLICATE #2 TAKEN AT MW-26 12/18

DUPPLICATE #3 TAKEN AT P2-D 12/19

4625



- sheet 3 of 4 -

Project # 14411 Date \_\_\_\_\_

Project Name: Good Hope Road Landfill Site **"LANDFILL MONITORING WELLS"**

Project Location: 5201 West Good Hope Road Milwaukee, WI

Weather: \_\_\_\_\_ Field Service Personnel: \_\_\_\_\_

Analytes: VOC, Alkalinity, Chloride, Sulfate, Dissolved : Hardness, Boron, Cadmium, Lead, Selenium

Purging Device / Sampling Device

Type of Device: \_\_\_\_\_ Disposable Bailer / Peristaltic Pump

How was Device Decontaminated: \_\_\_\_\_ Sigma's Standard Operating Procedures

How was the Line Decontaminated: \_\_\_\_\_ New Line / New Tubing

Well Volume	Monitoring Well IDs									
	MW-4	MW-6	W-MW-4S	W-MW-4D	W-MW-5S	W-MW-10	W-MW-11	MW-18	MW-22	
Well Diameter	2"	2"	2"	2"	-	2"	2"	2"	2"	
Stickup/Flushmount	STICK UP	STICK UP	STICK UP	STICK UP	-	STICK UP	STICK UP	STICK UP	STICK UP	
Depth to Bottom (ft)	17.30'	22.35	17.80'	22.50'	-	30.40'	27.85'	27.20'	28.70'	
Depth to Water (ft)	16.15	DRY	15.33	16.32	-	27.93	24.55'	22.75	DRY	
Length of Water (ft)	1.15	-	2.47	6.18	-	2.47	3.30	4.45	-	
Volume (gal)	0.18	-	0.99	0.99	-	0.40	0.54	0.73	-	
x4	0.74	-	1.58	3.96	-	1.58	2.15	2.90	-	
Time Purged								1'		
Time Sampled	12:15	-	10:05	10:10		9:20	12:55	11:35	-	

In-Situ Testing	12/18	12/18	12/18	12/18	12/19	12/18	12/18		
D.O. (mg/l)	1.44	-	0.67	1.48		2.15	1.51	1.33	-
Redox (mV)	+67.1	-	+82.1	+56.3		139.9	+106.5	+105.0	-
pH (S.U.)	7.72	-	7.35	7.31		7.56	7.37	7.43	-
Conductivity (uS/cm)	1.63	-	4.85	1.89		2.54	2.22	2.10	-
Ferrous Fe (mg/L)	0.0	-	3.8	2.2		3.2	1.8	2.6	-
Temperature (°C)	11.0	-	10.9°	11.4°		9.2	9.3	10.5°	-
Turbidity (C/T/O)	TURBID	-	CLEAR	TURBID		MURKY CLEAR	CLEAR	TURBID	-
Odor (Y or N)	-	-	-	-		-	-	-	-
Volume (Gallons)	0.25	-	0.50	4.0		0.25	2.3	3.00	-
Well Recovery	SLOW	-	SLOW	GOOD		MODERATE	MODERATE		-

Note: Above is for one well volume.

Well Size	Gallons/Linear Foot
2 inch	0.16
4 inch	0.65
6 inch	1.47

Notes

1050



SIGMA ENVIRONMENTAL SERVICES, INC.  
SUMMARY SHEET FOR GROUNDWATER SERVICES

Project # 14411 Date \_\_\_\_\_  
 Project Name: Good Hope Road Landfill Site **"LANDFILL MONITORING WELLS"**  
 Project Location: 5201 West Good Hope Road Milwaukee, WI  
 Weather: \_\_\_\_\_ Field Service Personnel: \_\_\_\_\_  
 Analytes: VOC, Alkalinity, Chloride, Sulfate, Dissolved : Hardness, Boron, Cadmium, Lead, Selenium  
 Purging Device / Sampling Device  
 Type of Device: \_\_\_\_\_ Disposable Bailer / Peristaltic Pump X  
 How was Device Decontaminated: \_\_\_\_\_ Sigma's Standard Operating Procedures X  
 How was the Line Decontaminated: \_\_\_\_\_ New Line / New Tubing X

Well Volume	Monitoring Well IDs									
	MW-A	PZ-A	MW-B	PZ-B	MW-C	PZ-C	MW-D	PZ-D	MW-E	
Well Diameter	2"	2"	1	-	2"	2"	2"	2"	2"	
Stickup/Flushmount	STICK UP	STICK UP			STICK UP	STICK UP	STICK UP	STICK UP	STICK UP	
Depth to Bottom (ft)	11.80'	19.80'			16.75'	26.00'	19.40'	31.75'	19.00'	
Depth to Water (ft)	DRY	16.33'			DRY	19.61'	DRY	28.46	DRY	
Length of Water (ft)	-	3.47			-	6.39	-	3.29	-	
Volume (gal)	-	0.57			-	1.04	-	0.53	-	
x4	-	2.26			-	4.17	-	2.1	-	
Time Purged	-				-		-		-	
Time Sampled	-	10:45			-	12:40	-	8:30	-	

In-Situ Testing	12/18		12/18		12/18		12/19			
D.O. (mg/l)	-	1.28			-	472.7	-	3.74	-	
Redox (mV)	-	145.5			-	1.22	-	+175.0	-	
pH (S.U.)	-	7.45			-	8.08	-	7.60	-	
Conductivity (uS/cm)	-	1.17			-	1.39	-	2.52	-	
Ferrous Fe (mg/L)	-	1.8			-	2.0	-	5.2	-	
Temperature (°C)	-	11.2			-	10.7°	-	9.5°	-	
Turbidity (C/T/O)	-	SLIGHTLY TURBID			-	SLIGHTLY TURBID	-	TURBID	-	
Odor (Y or N)	-	-			-	-	-	-	-	
Volume (Gallons)	-	0.75			-	4.25	-	0.25	-	
Well Recovery	-	SLOW			-	GOOD	-	SLOW	-	

Note: Above is for one well volume.

Well Size		Gallons/Linear Foot
2 inch	x	0.16
4 inch	x	0.65
6 inch	x	1.47

Notes  
 PZ-D BENT - UNABLE TO GET PROBE DOWN - USED 1" BAILER

525



16.24

Table 1  
 Static Groundwater Level Data  
 Village of Whitefish Bay - Former Good Hope Road Landfill Site  
 Sigma Project No. 3125

Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date	Depth to Bottom (ft)	Depth to Water (ft)	Notes
MW-A	697.36	16.4	10.0	690.96	11.89	685.47	06/19/97	11.0	DRY	GOOD
					11.27	686.09	07/21/97			
					10.10	687.26	03/27/98			
					11.19	686.17	04/29/98			
					12.99	684.37	07/15/98			
					9.62	687.74	08/18/98			
					DRY	DRY	06/26/02			
Well found obstructed at 10.90 ft on 7/21/06										
PZ-A	697.20	22.0	3.0	678.20	13.20	684.00	06/19/97	19.90	16.24	GOOD
					12.38	684.82	07/21/97			
					12.25	684.95	03/27/98			
					11.21	685.99	04/29/98			
					14.06	683.14	07/15/98			
					12.58	684.62	08/18/98			
					13.78	683.42	06/26/02			
15.35	681.85	07/21/06								
MW-B  N  (see note 1)	693.04	15.6	10.0	687.44	8.05	684.99	06/19/97	-	-	NO CAP OR WELL COVER - PLUGGED w/ DEBRIS
					7.80	685.24	07/21/97			
					5.79	687.25	03/27/98			
					5.38	687.66	04/29/98			
					8.22	684.82	07/15/98			
					7.85	685.19	08/18/98			
					10.41	683.22	06/26/02			
Well found vandalized; filled w/ debris on 7/21/06										
PZ-B  S	692.61	25.3	5.0	672.31	8.65	683.96	06/19/97	-	-	SAME AS MW-B
					7.87	684.74	07/21/97			
					7.77	684.84	03/27/98			
					6.97	685.64	04/29/98			
					9.63	682.98	07/15/98			
					8.09	684.52	08/18/98			
					9.20	683.41	06/26/02			
10.37	682.24	07/21/06								
Obstr. 22.55 ft										
MW-C	700.24	17.0	10.0	693.24	15.78	684.46	06/19/97	16.73	DRY	GOOD
					11.97	688.27	07/21/97			
					10.22	690.02	03/27/98			
					9.29	690.95	04/30/98			
					16.50	683.74	07/15/98			
					10.02	690.22	08/18/98			
					13.42	686.82	06/26/02			
16.55	683.69	07/17/06								
PZ-C	700.45	28.4	5.0	677.05	16.41	684.04	06/19/97	26.04	19.51	GOOD
					15.64	684.81	07/21/97			
					15.53	684.92	03/27/98			
					14.74	685.71	04/30/98			
					17.40	683.05	07/15/98			
					15.86	684.59	08/18/98			
					16.99	683.46	06/26/02			
18.53	681.92	07/17/06								
MW-D	709.20	19.1	10.0	700.10	14.20	695.00	06/19/97	19.47	18.94	GOOD
					13.16	696.04	07/21/97			
					12.78	696.42	03/27/98			
					15.01	694.19	07/15/98			
					13.48	695.72	08/18/98			
					13.65	695.55	06/26/02			
					13.74	695.46	07/17/06			
PZ-D	709.17	31.3	5.0	682.87	25.23	683.94	06/19/97	31.72	28.38	GOOD
					24.45	684.72	07/21/97			
					24.33	684.84	03/27/98			
					26.22	682.95	07/15/98			
					24.70	684.47	08/18/98			
					25.75	683.42	06/26/02			
					27.35	681.82	07/17/06			

26.74

4720698  
4777475

4.2

147.8 E  
2.56 N

Table 1  
Static Groundwater Level Data  
Village of Whitefish Bay - Former Good Hope Road Landfill Site  
Sigma Project No. 3125

Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date	Depth to Bottom (ft)	Depth to Water (ft)	Notes
MW-E	708.68	18.6	10.0	700.08	12.90	685.52	06/19/97	18.98	DRY	Good
					12.20	686.22	07/21/97			
					11.33	697.35	03/27/98			
					15.37	693.31	07/15/98			
					13.18	695.50	08/18/98			
					12.68	696.00	06/26/02			
					18.10	690.58	07/21/06			
MW-4	698.42	20.7	5.0	682.77	13.15	685.27	06/07/96	17.3	16.08	Good
					16.10	682.32	01/06/97			
					14.40	684.02	06/19/97			
					13.51	684.91	03/27/98			
					15.38	683.04	07/15/98			
					13.86	684.56	08/18/98			
					14.93	683.49	06/26/02			
16.62	681.80	07/21/06								
MW-6	703.30	22.3	5.0	686.00	18.42	684.88	06/19/97	-	-	Unable to open cap (screw on?)
					17.40	685.90	07/21/97			
					17.11	686.19	03/27/98			
					15.86	687.44	04/30/98			
					19.57	683.73	07/15/98			
					17.27	686.03	08/18/98			
					18.90	684.40	06/26/02			
20.88	682.42	07/21/06								
W-MW-10	708.69	30.4	5.0	683.29	23.44	685.25	06/07/96	30.81	27.82	Good
					26.37	682.32	01/06/97			
					24.70	683.99	06/19/97			
					23.81	684.88	03/27/98			
					25.68	683.01	07/15/98			
					24.15	684.54	08/18/98			
					25.22	683.47	06/26/02			
26.92	681.77	07/21/06								
W-MW-11	705.29	27.9	5.0	682.44	20.78	684.51	06/07/96	-	-	Can't reach due to downed tree
					23.00	682.29	01/06/97			
					21.31	683.98	06/19/97			
					20.44	684.85	03/27/98			
					22.30	682.99	07/15/98			
					20.78	684.51	08/18/98			
					21.86	683.43	06/26/02			
15.18	690.11	07/21/06								
MW-18	703.65	27.5	10.0	686.19	16.42	687.23	06/07/96	27.20	27.46	Good
					21.36	682.29	01/06/97			
					19.51	684.14	06/19/97			
					17.60	686.05	03/27/98			
					20.52	683.13	07/15/98			
					17.47	686.18	08/18/98			
					NM	NM	06/26/02			
21.75	681.90	07/21/06								
MW-22	709.47	32.5	10.0	687.02	24.31	685.16	06/07/96	28.71	28.80	Good
					25.57	683.90	06/19/97			
					24.68	684.79	03/27/98			
					26.54	682.93	07/15/98			
					25.02	684.45	08/18/98			
					26.07	683.40	06/26/02			
					27.65	681.82	07/17/06			
MW-24S	711.01	14.8	5.0	701.21	10.26	700.75	08/18/98	-	-	
					10.14	700.87	08/26/98			
					9.32	701.69	06/26/02			
MW-24D	711.00	15.1	5.0	691.10	12.31	698.69	08/18/98	-	-	
					12.84	698.16	08/26/98			
					12.03	698.97	06/26/02			
		26.1			11.55	699.45	07/17/06			

Table 1  
 Static Groundwater Level Data  
 Village of Whitefish Bay - Former Good Hope Road Landfill Site  
 Sigma Project No. 3125

Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date	Depth to Bottom (ft)	Depth to Water (ft)	Notes
MW-25	705.48	21.8	10.0	693.64	10.54	694.94	06/07/96			
					12.16	693.32	01/06/97			
					11.59	693.89	06/19/97			
					10.86	694.62	03/27/98			
					12.30	693.18	07/15/98			
					11.43	694.05	08/18/98			
					11.25	694.23	06/26/02			
MW-26	702.47	24.1	10.0	688.39	17.33	685.14	06/07/96			
					20.25	682.22	01/06/97			
					18.57	683.90	06/19/97			
					17.82	684.65	07/21/97			
					17.69	684.78	03/27/98			
					19.55	682.92	07/15/98			
					18.03	684.44	08/18/98			
					19.09	683.38	06/26/02			
					20.79	681.68	07/21/06			
<del>W-MW-1S</del>	<del>699.48</del>	<del>18.4</del>	<del>10.0</del>	<del>691.08</del>	<del>12.52</del>	<del>686.96</del>	<del>05/12/98</del>			
					<del>16.72</del>	<del>682.76</del>	<del>07/15/98</del>			
					<del>MN</del>	<del>MN</del>	<del>06/26/02</del>			
W-MW-2S	701.35	15.2	10.0	696.13	9.49	691.86	05/12/98			
					15.97	685.38	07/15/98			
					<del>MN</del>	<del>MN</del>	<del>06/26/02</del>			
W-MW-3S	693.14	17.8	10.0	685.34	3.72	689.42	05/13/98			
					<del>9.15</del>	<del>684.01</del>	<del>07/15/98</del>			
					<del>MN</del>	<del>MN</del>	<del>06/26/02</del>			
W-MW-4S	696.64	18.1	10.0	688.54	8.72	687.92	05/13/98			
					10.28	686.36	07/15/98			
W-MW-4D	695.63	22.8	5.0	677.83	11.90	683.73	05/12/98			
					14.10	681.53	07/15/98			
W-MW-5S	696.92	22.6	5.0	679.37	13.69	683.23	06/26/02			
W-MW-5S	696.48	16.4	10.0	690.08	11.38	685.10	05/12/98			
					13.94	682.54	07/15/98			
					13.30	683.18	06/26/02			
MPS: MW-1	708.95	18.2	10.0	700.75	9.41	699.54	08/18/98			
					8.92	700.03	08/19/98			
					9.45	699.50	08/26/98			
					9.13	699.82	12/08/00			
					9.12	699.83	01/12/01			
					7.93	701.02	06/26/02			
					14.54	694.41	07/17/06			
MPS: P-1	708.99	32.3	5.0	681.69	24.04	684.95	08/18/98			
					25.08	683.91	08/19/98			
					25.33	683.66	08/26/98			
					27.49	681.50	01/21/99			
					27.13	681.86	12/08/00			
					27.36	681.63	01/12/01			
					26.03	682.96	06/26/02			
					27.65	681.34	07/17/06			

5.25



2. 58

Table 1  
 Static Groundwater Level Data  
 Village of Whitefish Bay - Former Good Hope Road Landfill Site  
 Sigma Project No. 3125

Well ID	Top of Casing Elevation (ft MSL)	Depth of Well (ft)	Screen Length (ft)	Top of Screen (ft-MSL)	Depth to Water (ft)	Groundwater Elevation (ft-MSL)	Date	Depth to Bottom (ft)	Depth to Water (ft)	Notes
PZ-9 N	697.68	60.5	5.0	642.18	11.29	686.39	12/07/00	61.28	16.37	well is loose (probably) but good
					11.71	685.97	01/12/01			
					9.81	687.87	06/26/02			
					15.87	681.81	07/17/06			
MW-9 S	697.70	19.8	15.0	692.90	7.47	690.23	12/07/00	19.75	13.99	Good
					8.19	689.51	01/12/01			
					5.35	692.35	06/26/02			
					10.83	686.87	07/17/06			
PZ-10 E	686.84	42.5	5.0	649.34	13.75	673.09	12/07/00	42.96	12.18	Good
					14.05	672.79	01/12/01			
					10.21	676.63	06/26/02			
					11.87	674.97	07/17/06			
MW-10 W	687.10	19.5	15.0	682.60	15.53	671.57	12/07/00	19.50	13.89	Good
					15.94	671.16	01/12/01			
					11.75	675.46	06/26/02			
					12.87	674.34	07/17/06			
PZ-11 S	691.46	48.5	5.0	648.01	8.63	682.83	06/26/02	49.25	11.37	Good
					12.24	679.22	10/02/03			
					10.33	681.13	07/17/06			
MW-11 N	691.68	17.7	15.0	688.98	8.84	682.84	06/26/02	18.2	11.58	Good
					12.46	679.22	10/02/03			
					10.53	681.15	07/17/06			
<del>MW-101</del>	<del>708.57</del>	<del>15.1</del>	<del>10.0</del>	<del>703.52</del>	9.05	699.52	12/12/96			
					8.31	700.26	01/06/97			
					8.19	700.38	06/19/97			
					8.70	699.87	07/15/98			
					8.01	700.56	08/18/98			
					8.24	700.33	08/26/98			
					8.07	700.50	06/26/02			
<del>P-101</del>	<del>708.65</del>	<del>35.4</del>	<del>5.0</del>	<del>678.25</del>	14.49	694.16	12/12/96			
					14.22	694.43	01/06/97			
					13.64	695.01	06/19/97			
					14.48	694.17	07/15/98			
					13.14	695.51	08/18/98			
					13.62	695.03	08/26/98			
13.15	695.50	06/26/02								
<del>MW-102</del>	<del>707.42</del>	<del>17.5</del>	<del>10.0</del>	<del>699.92</del>	12.32	695.10	12/12/96			
					12.37	695.05	01/06/97			
					10.71	696.71	06/19/97			
					11.23	696.19	07/15/98			
					10.13	697.29	08/18/98			
					10.38	697.04	08/26/98			
					10.48	696.94	06/26/02			
<del>P-102</del>	<del>706.53</del>	<del>32.3</del>	<del>5.0</del>	<del>679.22</del>	18.97	687.56	08/18/98			
					19.27	687.26	08/26/98			
					19.57	686.96	06/26/02			
<del>MW-103</del>	<del>715.68</del>	<del>19.1</del>	<del>10.0</del>	<del>706.63</del>	16.05	699.63	12/12/96			
					15.34	700.34	01/06/97			
					15.28	700.40	06/19/97			
					15.84	699.84	07/15/98			
					15.11	700.57	08/18/98			
					15.35	700.33	08/26/98			
					15.23	700.45	06/26/02			

**APPENDIX B**  
**LABORATORY ANALYTICAL REPORTS**

# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

MAFIZUL ISLAM  
THE SIGMA GROUP, INC.  
1300 W. CANAL STREET  
MILWAUKEE, WI 53233

Report Date 04-Aug-14

Project Name GOODHOPE RD LANDFILL SITE  
Project # 14411

Invoice # E27253

Lab Code 5027253A  
Sample ID MW-22  
Sample Matrix Water  
Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	94.4	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 120	ug/l	120	385	500	8260B		7/8/2014	CJR	1
Bromobenzene	< 160	ug/l	160	500	500	8260B		7/8/2014	CJR	1
Bromodichloromethane	< 185	ug/l	185	600	500	8260B		7/8/2014	CJR	1
Bromoform	< 175	ug/l	175	550	500	8260B		7/8/2014	CJR	1
tert-Butylbenzene	< 180	ug/l	180	600	500	8260B		7/8/2014	CJR	1
sec-Butylbenzene	< 165	ug/l	165	500	500	8260B		7/8/2014	CJR	1
n-Butylbenzene	< 175	ug/l	175	550	500	8260B		7/8/2014	CJR	1
Carbon Tetrachloride	< 165	ug/l	165	550	500	8260B		7/8/2014	CJR	1
Chlorobenzene	< 120	ug/l	120	385	500	8260B		7/8/2014	CJR	1
Chloroethane	< 315	ug/l	315	1000	500	8260B		7/8/2014	CJR	1
Chloroform	< 140	ug/l	140	440	500	8260B		7/8/2014	CJR	1
Chloromethane	< 405	ug/l	405	1300	500	8260B		7/8/2014	CJR	1
2-Chlorotoluene	< 105	ug/l	105	330	500	8260B		7/8/2014	CJR	1
4-Chlorotoluene	< 105	ug/l	105	340	500	8260B		7/8/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 440	ug/l	440	1400	500	8260B		7/8/2014	CJR	30
Dibromochloromethane	< 110	ug/l	110	350	500	8260B		7/8/2014	CJR	1
1,4-Dichlorobenzene	< 150	ug/l	150	480	500	8260B		7/8/2014	CJR	1
1,3-Dichlorobenzene	< 140	ug/l	140	445	500	8260B		7/8/2014	CJR	1
1,2-Dichlorobenzene	< 180	ug/l	180	600	500	8260B		7/8/2014	CJR	1
Dichlorodifluoromethane	< 220	ug/l	220	700	500	8260B		7/8/2014	CJR	1
1,2-Dichloroethane	< 205	ug/l	205	650	500	8260B		7/8/2014	CJR	1
1,1-Dichloroethane	< 150	ug/l	150	485	500	8260B		7/8/2014	CJR	1
1,1-Dichloroethene	< 200	ug/l	200	650	500	8260B		7/8/2014	CJR	1
cis-1,2-Dichloroethene	19900	ug/l	190	600	500	8260B		7/8/2014	CJR	1
trans-1,2-Dichloroethene	< 175	ug/l	175	550	500	8260B		7/8/2014	CJR	1
1,2-Dichloropropane	< 160	ug/l	160	500	500	8260B		7/8/2014	CJR	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253A  
 Sample ID MW-22  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
2,2-Dichloropropane	< 180	ug/l	180	600	500	8260B		7/8/2014	CJR	4 8
1,3-Dichloropropane	< 165	ug/l	165	500	500	8260B		7/8/2014	CJR	1
Di-isopropyl ether	< 115	ug/l	115	365	500	8260B		7/8/2014	CJR	1
EDB (1,2-Dibromoethane)	< 220	ug/l	220	700	500	8260B		7/8/2014	CJR	1
Ethylbenzene	< 275	ug/l	275	850	500	8260B		7/8/2014	CJR	1
Hexachlorobutadiene	< 750	ug/l	750	2400	500	8260B		7/8/2014	CJR	1
Isopropylbenzene	< 150	ug/l	150	480	500	8260B		7/8/2014	CJR	1
p-Isopropyltoluene	< 155	ug/l	155	490	500	8260B		7/8/2014	CJR	1
Methylene chloride	< 250	ug/l	250	800	500	8260B		7/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 115	ug/l	115	370	500	8260B		7/8/2014	CJR	1
Naphthalene	< 850	ug/l	850	2750	500	8260B		7/8/2014	CJR	1
n-Propylbenzene	< 125	ug/l	125	405	500	8260B		7/8/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 225	ug/l	225	700	500	8260B		7/8/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 165	ug/l	165	550	500	8260B		7/8/2014	CJR	1
Tetrachloroethene	< 165	ug/l	165	550	500	8260B		7/8/2014	CJR	1
Toluene	< 345	ug/l	345	1100	500	8260B		7/8/2014	CJR	1
1,2,4-Trichlorobenzene	< 490	ug/l	490	1550	500	8260B		7/8/2014	CJR	1
1,2,3-Trichlorobenzene	< 900	ug/l	900	2900	500	8260B		7/8/2014	CJR	1
1,1,1-Trichloroethane	< 165	ug/l	165	500	500	8260B		7/8/2014	CJR	1
1,1,2-Trichloroethane	< 170	ug/l	170	550	500	8260B		7/8/2014	CJR	1
Trichloroethene (TCE)	480 "J"	ug/l	165	500	500	8260B		7/8/2014	CJR	1
Trichlorofluoromethane	< 355	ug/l	355	1150	500	8260B		7/8/2014	CJR	1
1,2,4-Trimethylbenzene	< 1100	ug/l	1100	3450	500	8260B		7/8/2014	CJR	1
1,3,5-Trimethylbenzene	< 700	ug/l	700	2250	500	8260B		7/8/2014	CJR	1
Vinyl Chloride	500	ug/l	90	285	500	8260B		7/8/2014	CJR	1
m&p-Xylene	< 345	ug/l	345	1100	500	8260B		7/8/2014	CJR	1
o-Xylene	< 315	ug/l	315	1000	500	8260B		7/8/2014	CJR	1
SUR - 4-Bromofluorobenzene	85	REC %			500	8260B		7/8/2014	CJR	1
SUR - Dibromofluoromethane	105	REC %			500	8260B		7/8/2014	CJR	1
SUR - Toluene-d8	97	REC %			500	8260B		7/8/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			500	8260B		7/8/2014	CJR	1

Wet Chemistry

General

Alkalinity, Total Unfiltered	381	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	1120	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	344	mg/l	37.8	120.2	20	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	283	mg/l	3.2	8	2	SM 4500CL		7/9/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253B  
 Sample ID MW-D  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	119 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 12	ug/l	12	38.5	50	8260B		7/8/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		7/8/2014	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		7/8/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		7/8/2014	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		7/8/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		7/8/2014	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		7/8/2014	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		7/8/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		7/8/2014	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		7/8/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		7/8/2014	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		7/8/2014	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		7/8/2014	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		7/8/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		7/8/2014	CJR	30
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		7/8/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		7/8/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		7/8/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		7/8/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		7/8/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		7/8/2014	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		7/8/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		7/8/2014	CJR	1
cis-1,2-Dichloroethene	3010	ug/l	19	60	50	8260B		7/8/2014	CJR	1
trans-1,2-Dichloroethene	52 "J"	ug/l	17.5	55	50	8260B		7/8/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		7/8/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		7/8/2014	CJR	4 8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		7/8/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		7/8/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		7/8/2014	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		7/8/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		7/8/2014	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		7/8/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		7/8/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		7/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		7/8/2014	CJR	1
Naphthalene	< 85	ug/l	85	275	50	8260B		7/8/2014	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		7/8/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		7/8/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		7/8/2014	CJR	1
Tetrachloroethene	980	ug/l	16.5	55	50	8260B		7/8/2014	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		7/8/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		7/8/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		7/8/2014	CJR	1
1,1,1-Trichloroethane	40 "J"	ug/l	16.5	50	50	8260B		7/8/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		7/8/2014	CJR	1
Trichloroethene (TCE)	1400	ug/l	16.5	50	50	8260B		7/8/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		7/8/2014	CJR	1
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		7/8/2014	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		7/8/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253B  
**Sample ID** MW-D  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 9	ug/l	9	28.5	50	8260B		7/8/2014	CJR	1
m&p-Xylene	< 34.5	ug/l	34.5	110	50	8260B		7/8/2014	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		7/8/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			50	8260B		7/8/2014	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			50	8260B		7/8/2014	CJR	1
SUR - Dibromofluoromethane	104	REC %			50	8260B		7/8/2014	CJR	1
SUR - Toluene-d8	97	REC %			50	8260B		7/8/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	396	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	568	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	49.2	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	53.3	mg/l	3.2	8	2	SM 4500CL		7/9/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253C  
 Sample ID PZ-D  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	87.3 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 24	ug/l	24	77	100	8260B		7/3/2014	CJR	1
Bromobenzene	< 32	ug/l	32	100	100	8260B		7/3/2014	CJR	1
Bromodichloromethane	< 37	ug/l	37	120	100	8260B		7/3/2014	CJR	1
Bromoform	< 35	ug/l	35	110	100	8260B		7/3/2014	CJR	1
tert-Butylbenzene	< 36	ug/l	36	120	100	8260B		7/3/2014	CJR	1
sec-Butylbenzene	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
n-Butylbenzene	< 35	ug/l	35	110	100	8260B		7/3/2014	CJR	1
Carbon Tetrachloride	< 33	ug/l	33	110	100	8260B		7/3/2014	CJR	1
Chlorobenzene	< 24	ug/l	24	77	100	8260B		7/3/2014	CJR	1
Chloroethane	< 63	ug/l	63	200	100	8260B		7/3/2014	CJR	1
Chloroform	< 28	ug/l	28	88	100	8260B		7/3/2014	CJR	1
Chloromethane	< 81	ug/l	81	260	100	8260B		7/3/2014	CJR	1
2-Chlorotoluene	< 21	ug/l	21	66	100	8260B		7/3/2014	CJR	1
4-Chlorotoluene	< 21	ug/l	21	68	100	8260B		7/3/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 88	ug/l	88	280	100	8260B		7/3/2014	CJR	1
Dibromochloromethane	< 22	ug/l	22	70	100	8260B		7/3/2014	CJR	1
1,4-Dichlorobenzene	< 30	ug/l	30	96	100	8260B		7/3/2014	CJR	1
1,3-Dichlorobenzene	< 28	ug/l	28	89	100	8260B		7/3/2014	CJR	1
1,2-Dichlorobenzene	< 36	ug/l	36	120	100	8260B		7/3/2014	CJR	1
Dichlorodifluoromethane	< 44	ug/l	44	140	100	8260B		7/3/2014	CJR	1
1,2-Dichloroethane	< 41	ug/l	41	130	100	8260B		7/3/2014	CJR	1
1,1-Dichloroethane	< 30	ug/l	30	97	100	8260B		7/3/2014	CJR	1
1,1-Dichloroethene	< 40	ug/l	40	130	100	8260B		7/3/2014	CJR	1
cis-1,2-Dichloroethene	2840	ug/l	38	120	100	8260B		7/3/2014	CJR	1
trans-1,2-Dichloroethene	< 35	ug/l	35	110	100	8260B		7/3/2014	CJR	1
1,2-Dichloropropane	< 32	ug/l	32	100	100	8260B		7/3/2014	CJR	1
2,2-Dichloropropane	< 36	ug/l	36	120	100	8260B		7/3/2014	CJR	1
1,3-Dichloropropane	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
Di-isopropyl ether	< 23	ug/l	23	73	100	8260B		7/3/2014	CJR	1
EDB (1,2-Dibromoethane)	< 44	ug/l	44	140	100	8260B		7/3/2014	CJR	1
Ethylbenzene	< 55	ug/l	55	170	100	8260B		7/3/2014	CJR	1
Hexachlorobutadiene	< 150	ug/l	150	480	100	8260B		7/3/2014	CJR	1
Isopropylbenzene	< 30	ug/l	30	96	100	8260B		7/3/2014	CJR	1
p-Isopropyltoluene	< 31	ug/l	31	98	100	8260B		7/3/2014	CJR	1
Methylene chloride	< 50	ug/l	50	160	100	8260B		7/3/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		7/3/2014	CJR	1
Naphthalene	< 170	ug/l	170	550	100	8260B		7/3/2014	CJR	1
n-Propylbenzene	< 25	ug/l	25	81	100	8260B		7/3/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 45	ug/l	45	140	100	8260B		7/3/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 33	ug/l	33	110	100	8260B		7/3/2014	CJR	1
Tetrachloroethene	< 33	ug/l	33	110	100	8260B		7/3/2014	CJR	1
Toluene	< 69	ug/l	69	220	100	8260B		7/3/2014	CJR	1
1,2,4-Trichlorobenzene	< 98	ug/l	98	310	100	8260B		7/3/2014	CJR	1
1,2,3-Trichlorobenzene	< 180	ug/l	180	580	100	8260B		7/3/2014	CJR	1
1,1,1-Trichloroethane	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
1,1,2-Trichloroethane	< 34	ug/l	34	110	100	8260B		7/3/2014	CJR	1
Trichloroethene (TCE)	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
Trichlorofluoromethane	< 71	ug/l	71	230	100	8260B		7/3/2014	CJR	1
1,2,4-Trimethylbenzene	< 220	ug/l	220	690	100	8260B		7/3/2014	CJR	1
1,3,5-Trimethylbenzene	< 140	ug/l	140	450	100	8260B		7/3/2014	CJR	1



**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253C  
**Sample ID** PZ-D  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	790	ug/l	18	57	100	8260B		7/3/2014	CJR	1
m&p-Xylene	< 69	ug/l	69	220	100	8260B		7/3/2014	CJR	1
o-Xylene	< 63	ug/l	63	200	100	8260B		7/3/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			100	8260B		7/3/2014	CJR	1
SUR - Toluene-d8	93	REC %			100	8260B		7/3/2014	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %			100	8260B		7/3/2014	CJR	1
SUR - Dibromofluoromethane	102	REC %			100	8260B		7/3/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	296	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	562	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	140	mg/l	9.45	30.05	5	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	482	mg/l	8	20	5	SM 4500CL		7/9/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253D  
 Sample ID MPS-P-2  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	93.5 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 4.8	ug/l	4.8	15.4	20	8260B		7/3/2014	CJR	1
Bromobenzene	< 6.4	ug/l	6.4	20	20	8260B		7/3/2014	CJR	1
Bromodichloromethane	< 7.4	ug/l	7.4	24	20	8260B		7/3/2014	CJR	1
Bromoform	< 7	ug/l	7	22	20	8260B		7/3/2014	CJR	1
tert-Butylbenzene	< 7.2	ug/l	7.2	24	20	8260B		7/3/2014	CJR	1
sec-Butylbenzene	< 6.6	ug/l	6.6	20	20	8260B		7/3/2014	CJR	1
n-Butylbenzene	< 7	ug/l	7	22	20	8260B		7/3/2014	CJR	1
Carbon Tetrachloride	< 6.6	ug/l	6.6	22	20	8260B		7/3/2014	CJR	1
Chlorobenzene	< 4.8	ug/l	4.8	15.4	20	8260B		7/3/2014	CJR	1
Chloroethane	< 12.6	ug/l	12.6	40	20	8260B		7/3/2014	CJR	1
Chloroform	< 5.6	ug/l	5.6	17.6	20	8260B		7/3/2014	CJR	1
Chloromethane	< 16.2	ug/l	16.2	52	20	8260B		7/3/2014	CJR	1
2-Chlorotoluene	< 4.2	ug/l	4.2	13.2	20	8260B		7/3/2014	CJR	1
4-Chlorotoluene	< 4.2	ug/l	4.2	13.6	20	8260B		7/3/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 17.6	ug/l	17.6	56	20	8260B		7/3/2014	CJR	1
Dibromochloromethane	< 4.4	ug/l	4.4	14	20	8260B		7/3/2014	CJR	1
1,4-Dichlorobenzene	< 6	ug/l	6	19.2	20	8260B		7/3/2014	CJR	1
1,3-Dichlorobenzene	< 5.6	ug/l	5.6	17.8	20	8260B		7/3/2014	CJR	1
1,2-Dichlorobenzene	< 7.2	ug/l	7.2	24	20	8260B		7/3/2014	CJR	1
Dichlorodifluoromethane	< 8.8	ug/l	8.8	28	20	8260B		7/3/2014	CJR	1
1,2-Dichloroethane	< 8.2	ug/l	8.2	26	20	8260B		7/3/2014	CJR	1
1,1-Dichloroethane	< 6	ug/l	6	19.4	20	8260B		7/3/2014	CJR	1
1,1-Dichloroethene	< 8	ug/l	8	26	20	8260B		7/3/2014	CJR	1
cis-1,2-Dichloroethene	1530	ug/l	7.6	24	20	8260B		7/3/2014	CJR	1
trans-1,2-Dichloroethene	< 7	ug/l	7	22	20	8260B		7/3/2014	CJR	1
1,2-Dichloropropane	< 6.4	ug/l	6.4	20	20	8260B		7/3/2014	CJR	1
2,2-Dichloropropane	< 7.2	ug/l	7.2	24	20	8260B		7/3/2014	CJR	1
1,3-Dichloropropane	< 6.6	ug/l	6.6	20	20	8260B		7/3/2014	CJR	1
Di-isopropyl ether	< 4.6	ug/l	4.6	14.6	20	8260B		7/3/2014	CJR	1
EDB (1,2-Dibromoethane)	< 8.8	ug/l	8.8	28	20	8260B		7/3/2014	CJR	1
Ethylbenzene	< 11	ug/l	11	34	20	8260B		7/3/2014	CJR	1
Hexachlorobutadiene	< 30	ug/l	30	96	20	8260B		7/3/2014	CJR	1
Isopropylbenzene	< 6	ug/l	6	19.2	20	8260B		7/3/2014	CJR	1
p-Isopropyltoluene	< 6.2	ug/l	6.2	19.6	20	8260B		7/3/2014	CJR	1
Methylene chloride	< 10	ug/l	10	32	20	8260B		7/3/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.6	ug/l	4.6	14.8	20	8260B		7/3/2014	CJR	1
Naphthalene	< 34	ug/l	34	110	20	8260B		7/3/2014	CJR	1
n-Propylbenzene	< 5	ug/l	5	16.2	20	8260B		7/3/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 9	ug/l	9	28	20	8260B		7/3/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 6.6	ug/l	6.6	22	20	8260B		7/3/2014	CJR	1
Tetrachloroethene	< 6.6	ug/l	6.6	22	20	8260B		7/3/2014	CJR	1
Toluene	< 13.8	ug/l	13.8	44	20	8260B		7/3/2014	CJR	1
1,2,4-Trichlorobenzene	< 19.6	ug/l	19.6	62	20	8260B		7/3/2014	CJR	1
1,2,3-Trichlorobenzene	< 36	ug/l	36	116	20	8260B		7/3/2014	CJR	1
1,1,1-Trichloroethane	< 6.6	ug/l	6.6	20	20	8260B		7/3/2014	CJR	1
1,1,2-Trichloroethane	< 6.8	ug/l	6.8	22	20	8260B		7/3/2014	CJR	1
Trichloroethene (TCE)	< 6.6	ug/l	6.6	20	20	8260B		7/3/2014	CJR	1
Trichlorofluoromethane	< 14.2	ug/l	14.2	46	20	8260B		7/3/2014	CJR	1
1,2,4-Trimethylbenzene	< 44	ug/l	44	138	20	8260B		7/3/2014	CJR	1
1,3,5-Trimethylbenzene	< 28	ug/l	28	90	20	8260B		7/3/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253D  
**Sample ID** MPS-P-2  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	670	ug/l	3.6	11.4	20	8260B		7/3/2014	CJR	1
m&p-Xylene	< 13.8	ug/l	13.8	44	20	8260B		7/3/2014	CJR	1
o-Xylene	< 12.6	ug/l	12.6	40	20	8260B		7/3/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			20	8260B		7/3/2014	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			20	8260B		7/3/2014	CJR	1
SUR - Dibromofluoromethane	100	REC %			20	8260B		7/3/2014	CJR	1
SUR - Toluene-d8	98	REC %			20	8260B		7/3/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	327	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	481	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	139	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	237	mg/l	3.2	8	2	SM 4500CL		7/9/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253E  
 Sample ID MW-26  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 60.1	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	0.76 "J"	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253E  
**Sample ID** MW-26  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	82	REC %			1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	205	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	222	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	13.1	mg/l	1.89	6.01	1	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	6.18	mg/l	1.6	4	1	SM 4500CL		7/9/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253F  
 Sample ID W-MW-11  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	242	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	1.4 "J"	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 24	ug/l	24	77	100	8260B		7/3/2014	CJR	1
Bromobenzene	< 32	ug/l	32	100	100	8260B		7/3/2014	CJR	1
Bromodichloromethane	< 37	ug/l	37	120	100	8260B		7/3/2014	CJR	1
Bromoform	< 35	ug/l	35	110	100	8260B		7/3/2014	CJR	1
tert-Butylbenzene	< 36	ug/l	36	120	100	8260B		7/3/2014	CJR	1
sec-Butylbenzene	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
n-Butylbenzene	< 35	ug/l	35	110	100	8260B		7/3/2014	CJR	1
Carbon Tetrachloride	< 33	ug/l	33	110	100	8260B		7/3/2014	CJR	1
Chlorobenzene	< 24	ug/l	24	77	100	8260B		7/3/2014	CJR	1
Chloroethane	< 63	ug/l	63	200	100	8260B		7/3/2014	CJR	1
Chloroform	< 28	ug/l	28	88	100	8260B		7/3/2014	CJR	1
Chloromethane	< 81	ug/l	81	260	100	8260B		7/3/2014	CJR	1
2-Chlorotoluene	< 21	ug/l	21	66	100	8260B		7/3/2014	CJR	1
4-Chlorotoluene	< 21	ug/l	21	68	100	8260B		7/3/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 88	ug/l	88	280	100	8260B		7/3/2014	CJR	1
Dibromochloromethane	< 22	ug/l	22	70	100	8260B		7/3/2014	CJR	1
1,4-Dichlorobenzene	< 30	ug/l	30	96	100	8260B		7/3/2014	CJR	1
1,3-Dichlorobenzene	< 28	ug/l	28	89	100	8260B		7/3/2014	CJR	1
1,2-Dichlorobenzene	< 36	ug/l	36	120	100	8260B		7/3/2014	CJR	1
Dichlorodifluoromethane	< 44	ug/l	44	140	100	8260B		7/3/2014	CJR	1
1,2-Dichloroethane	< 41	ug/l	41	130	100	8260B		7/3/2014	CJR	1
1,1-Dichloroethane	< 30	ug/l	30	97	100	8260B		7/3/2014	CJR	1
1,1-Dichloroethene	< 40	ug/l	40	130	100	8260B		7/3/2014	CJR	1
cis-1,2-Dichloroethene	20300	ug/l	38	120	100	8260B		7/3/2014	CJR	1
trans-1,2-Dichloroethene	128	ug/l	35	110	100	8260B		7/3/2014	CJR	1
1,2-Dichloropropane	< 32	ug/l	32	100	100	8260B		7/3/2014	CJR	1
2,2-Dichloropropane	< 36	ug/l	36	120	100	8260B		7/3/2014	CJR	1
1,3-Dichloropropane	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
Di-isopropyl ether	< 23	ug/l	23	73	100	8260B		7/3/2014	CJR	1
EDB (1,2-Dibromoethane)	< 44	ug/l	44	140	100	8260B		7/3/2014	CJR	1
Ethylbenzene	< 55	ug/l	55	170	100	8260B		7/3/2014	CJR	1
Hexachlorobutadiene	< 150	ug/l	150	480	100	8260B		7/3/2014	CJR	1
Isopropylbenzene	< 30	ug/l	30	96	100	8260B		7/3/2014	CJR	1
p-Isopropyltoluene	< 31	ug/l	31	98	100	8260B		7/3/2014	CJR	1
Methylene chloride	< 50	ug/l	50	160	100	8260B		7/3/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		7/3/2014	CJR	1
Naphthalene	< 170	ug/l	170	550	100	8260B		7/3/2014	CJR	1
n-Propylbenzene	< 25	ug/l	25	81	100	8260B		7/3/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 45	ug/l	45	140	100	8260B		7/3/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 33	ug/l	33	110	100	8260B		7/3/2014	CJR	1
Tetrachloroethene	< 33	ug/l	33	110	100	8260B		7/3/2014	CJR	1
Toluene	281	ug/l	69	220	100	8260B		7/3/2014	CJR	1
1,2,4-Trichlorobenzene	< 98	ug/l	98	310	100	8260B		7/3/2014	CJR	1
1,2,3-Trichlorobenzene	< 180	ug/l	180	580	100	8260B		7/3/2014	CJR	1
1,1,1-Trichloroethane	39 "J"	ug/l	33	100	100	8260B		7/3/2014	CJR	1
1,1,2-Trichloroethane	< 34	ug/l	34	110	100	8260B		7/3/2014	CJR	1
Trichloroethene (TCE)	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
Trichlorofluoromethane	< 71	ug/l	71	230	100	8260B		7/3/2014	CJR	1
1,2,4-Trimethylbenzene	< 220	ug/l	220	690	100	8260B		7/3/2014	CJR	1
1,3,5-Trimethylbenzene	< 140	ug/l	140	450	100	8260B		7/3/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253F  
**Sample ID** W-MW-11  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	1780	ug/l	18	57	100	8260B		7/3/2014	CJR	1
m&p-Xylene	100 "J"	ug/l	69	220	100	8260B		7/3/2014	CJR	1
o-Xylene	< 63	ug/l	63	200	100	8260B		7/3/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			100	8260B		7/3/2014	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			100	8260B		7/3/2014	CJR	1
SUR - Dibromofluoromethane	100	REC %			100	8260B		7/3/2014	CJR	1
SUR - Toluene-d8	97	REC %			100	8260B		7/3/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	471	mg/l	38.5	120	5	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	1360	mg/l	2.68	8	2	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	637	mg/l	189	601	100	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	178	mg/l	3.2	8	2	SM 4500CL		7/9/2014	MDK	1



Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253G  
 Sample ID W-MW-10  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	83.5 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	1.6 "J"	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 24	ug/l	24	77	100	8260B		7/3/2014	CJR	1
Bromobenzene	< 32	ug/l	32	100	100	8260B		7/3/2014	CJR	1
Bromodichloromethane	< 37	ug/l	37	120	100	8260B		7/3/2014	CJR	1
Bromoform	< 35	ug/l	35	110	100	8260B		7/3/2014	CJR	1
tert-Butylbenzene	< 36	ug/l	36	120	100	8260B		7/3/2014	CJR	1
sec-Butylbenzene	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
n-Butylbenzene	< 35	ug/l	35	110	100	8260B		7/3/2014	CJR	1
Carbon Tetrachloride	< 33	ug/l	33	110	100	8260B		7/3/2014	CJR	1
Chlorobenzene	< 24	ug/l	24	77	100	8260B		7/3/2014	CJR	1
Chloroethane	< 63	ug/l	63	200	100	8260B		7/3/2014	CJR	1
Chloroform	< 28	ug/l	28	88	100	8260B		7/3/2014	CJR	1
Chloromethane	< 81	ug/l	81	260	100	8260B		7/3/2014	CJR	1
2-Chlorotoluene	< 21	ug/l	21	66	100	8260B		7/3/2014	CJR	1
4-Chlorotoluene	< 21	ug/l	21	68	100	8260B		7/3/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 88	ug/l	88	280	100	8260B		7/3/2014	CJR	1
Dibromochloromethane	< 22	ug/l	22	70	100	8260B		7/3/2014	CJR	1
1,4-Dichlorobenzene	< 30	ug/l	30	96	100	8260B		7/3/2014	CJR	1
1,3-Dichlorobenzene	< 28	ug/l	28	89	100	8260B		7/3/2014	CJR	1
1,2-Dichlorobenzene	< 36	ug/l	36	120	100	8260B		7/3/2014	CJR	1
Dichlorodifluoromethane	< 44	ug/l	44	140	100	8260B		7/3/2014	CJR	1
1,2-Dichloroethane	< 41	ug/l	41	130	100	8260B		7/3/2014	CJR	1
1,1-Dichloroethane	< 30	ug/l	30	97	100	8260B		7/3/2014	CJR	1
1,1-Dichloroethene	< 40	ug/l	40	130	100	8260B		7/3/2014	CJR	1
cis-1,2-Dichloroethene	600	ug/l	38	120	100	8260B		7/3/2014	CJR	1
trans-1,2-Dichloroethene	< 35	ug/l	35	110	100	8260B		7/3/2014	CJR	1
1,2-Dichloropropane	< 32	ug/l	32	100	100	8260B		7/3/2014	CJR	1
2,2-Dichloropropane	< 36	ug/l	36	120	100	8260B		7/3/2014	CJR	1
1,3-Dichloropropane	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
Di-isopropyl ether	< 23	ug/l	23	73	100	8260B		7/3/2014	CJR	1
EDB (1,2-Dibromoethane)	< 44	ug/l	44	140	100	8260B		7/3/2014	CJR	1
Ethylbenzene	< 55	ug/l	55	170	100	8260B		7/3/2014	CJR	1
Hexachlorobutadiene	< 150	ug/l	150	480	100	8260B		7/3/2014	CJR	1
Isopropylbenzene	< 30	ug/l	30	96	100	8260B		7/3/2014	CJR	1
p-Isopropyltoluene	< 31	ug/l	31	98	100	8260B		7/3/2014	CJR	1
Methylene chloride	< 50	ug/l	50	160	100	8260B		7/3/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		7/3/2014	CJR	1
Naphthalene	< 170	ug/l	170	550	100	8260B		7/3/2014	CJR	1
n-Propylbenzene	< 25	ug/l	25	81	100	8260B		7/3/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 45	ug/l	45	140	100	8260B		7/3/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 33	ug/l	33	110	100	8260B		7/3/2014	CJR	1
Tetrachloroethene	194	ug/l	33	110	100	8260B		7/3/2014	CJR	1
Toluene	< 69	ug/l	69	220	100	8260B		7/3/2014	CJR	1
1,2,4-Trichlorobenzene	< 98	ug/l	98	310	100	8260B		7/3/2014	CJR	1
1,2,3-Trichlorobenzene	< 180	ug/l	180	580	100	8260B		7/3/2014	CJR	1
1,1,1-Trichloroethane	< 33	ug/l	33	100	100	8260B		7/3/2014	CJR	1
1,1,2-Trichloroethane	< 34	ug/l	34	110	100	8260B		7/3/2014	CJR	1
Trichloroethene (TCE)	780	ug/l	33	100	100	8260B		7/3/2014	CJR	1
Trichlorofluoromethane	< 71	ug/l	71	230	100	8260B		7/3/2014	CJR	1
1,2,4-Trimethylbenzene	< 220	ug/l	220	690	100	8260B		7/3/2014	CJR	1
1,3,5-Trimethylbenzene	< 140	ug/l	140	450	100	8260B		7/3/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253G  
**Sample ID** W-MW-10  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	202	ug/l	18	57	100	8260B		7/3/2014	CJR	1
m&p-Xylene	< 69	ug/l	69	220	100	8260B		7/3/2014	CJR	1
o-Xylene	< 63	ug/l	63	200	100	8260B		7/3/2014	CJR	1
SUR - Toluene-d8	97	REC %				100 8260B		7/3/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %				100 8260B		7/3/2014	CJR	1
SUR - 4-Bromofluorobenzene	87	REC %				100 8260B		7/3/2014	CJR	1
SUR - Dibromofluoromethane	100	REC %				100 8260B		7/3/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	338	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	634	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	220	mg/l	37.8	120.2	20	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	441	mg/l	8	20	5	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253H  
 Sample ID MW-4  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	73.4 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		7/7/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		7/7/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		7/7/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		7/7/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		7/7/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	4.7 "J"	ug/l	3.8	12	10	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		7/7/2014	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		7/7/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		7/7/2014	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Tetrachloroethene	780	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	139	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253H  
**Sample ID** MW-4  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 1.8	ug/l	1.8	5.7	10	8260B		7/7/2014	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		7/7/2014	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %				10 8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	107	REC %				10 8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	85	REC %				10 8260B		7/7/2014	CJR	1
SUR - Toluene-d8	95	REC %				10 8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	336	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	354	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	25.0	mg/l	9.45	30.05	5	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	3.74	mg/l	1.6	4	1	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253I  
 Sample ID MPS-P-3  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	107 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	33	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	0.37 "J"	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253I  
**Sample ID** MPS-P-3  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	0.59	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	88	REC %			1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	205	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	412	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	35.1	mg/l	9.45	30.05	5	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	348	mg/l	8	20	5	SM 4500CL		7/10/2014	MDK	1



Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253J  
 Sample ID MPS-MW-3  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 60.1	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	8
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253J  
**Sample ID** MPS-MW-3  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	88	REC %			1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	90	REC %			1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	247	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	218	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	< 1.89	mg/l	1.89	6.01	1	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	8.76	mg/l	1.6	4	1	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253K  
 Sample ID MW-C  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	116 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	8
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253K  
**Sample ID** MW-C  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %			1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	86	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	396	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	525	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	44.4	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	2.43	mg/l	1.6	4	1	SM 4500CL		7/10/2014	MDK	1

Lab Code 5027253L  
 Sample ID PZ-C  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	85.6 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	37	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253L  
**Sample ID** PZ-C  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	34	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63		2	1 8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %				1 8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	85	REC %				1 8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	100	REC %				1 8260B		7/7/2014	CJR	1
SUR - Toluene-d8	98	REC %				1 8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	289	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	385	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	160	mg/l	9.45	30.05	5	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	285	mg/l	3.2	8	2	SM 4500CL		7/10/2014	MDK	1



Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253M  
 Sample ID MW-A  
 Sample Matrix Water  
 Sample Date 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	308	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	8
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253M  
**Sample ID** MW-A  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %			1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	84	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	466	mg/l	38.5	120	5	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	818	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	338	mg/l	37.8	120.2	20	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	6.32	mg/l	1.6	4	1	SM 4500CL		7/10/2014	MDK	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253N  
**Sample ID** PZ-A  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>Inorganic</b>										
<b>Metals</b>										
Boron, Dissolved	164 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
<b>Organic</b>										
<b>VOC's</b>										
Benzene	0.44 "J"	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253N  
**Sample ID** PZ-A  
**Sample Matrix** Water  
**Sample Date** 6/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	0.30 "J"	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63		2	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	96	REC %				8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	99	REC %				8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %				8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %				8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	350	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	397	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	64.5	mg/l	3.78	12.02	2	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	212	mg/l	3.2	8	2	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 50272530  
 Sample ID MW-18  
 Sample Matrix Water  
 Sample Date 6/26/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	761	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	0.77	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	2.81	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 50272530  
**Sample ID** MW-18  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	0.84	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	87	REC %			1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	774	mg/l	38.5	120	5	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	734	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	163	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	23.9	mg/l	1.6	4	1	SM 4500CL		7/10/2014	MDK	1



Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253P  
 Sample ID MW-6  
 Sample Matrix Water  
 Sample Date 6/26/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	1250	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	8
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253P  
**Sample ID** MW-6  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	86	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	633	mg/l	38.5	120	5	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	961	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	345	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	19.3	mg/l	1.6	4	1	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253Q  
 Sample ID W-MW-45  
 Sample Matrix Water  
 Sample Date 6/26/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 60.1	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	8.8	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	8
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253Q  
**Sample ID** W-MW-45  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %				1 8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	105	REC %				1 8260B		7/7/2014	CJR	1
SUR - Toluene-d8	82	REC %				1 8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %				1 8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	291	mg/l	38.5	120	5	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	1430	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	2230	mg/l	189	601	100	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	341	mg/l	8	20	5	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253R  
 Sample ID W-MW-4D  
 Sample Matrix Water  
 Sample Date 6/26/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 60.1	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	8
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253R  
**Sample ID** W-MW-4D  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	85	REC %			1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	115	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	285	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	1430	mg/l	2.68	8	2	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	988	mg/l	189	601	100	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	174	mg/l	3.2	8	2	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253S  
 Sample ID W-MW-5S  
 Sample Matrix Water  
 Sample Date 6/26/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 60.1	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	5.7	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	1.87	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	15.1	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1



**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253S  
**Sample ID** W-MW-5S  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	1.32	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63		2	1 8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %				1 8260B		7/7/2014	CJR	1
SUR - Toluene-d8	97	REC %				1 8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	82	REC %				1 8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	102	REC %				1 8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	256	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	357	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	96.9	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	8.07	mg/l	1.6	4	1	SM 4500CL		7/10/2014	MDK	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253T  
**Sample ID** MPS-P-4  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>Inorganic</b>										
<b>Metals</b>										
Boron, Dissolved	98.1	ug/l	60.1	191.1	1	200.7		7/17/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/17/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
<b>Organic</b>										
<b>VOC's</b>										
Benzene	< 4.8	ug/l	4.8	15.4	20	8260B		7/8/2014	CJR	1
Bromobenzene	< 6.4	ug/l	6.4	20	20	8260B		7/8/2014	CJR	1
Bromodichloromethane	< 7.4	ug/l	7.4	24	20	8260B		7/8/2014	CJR	1
Bromoform	< 7	ug/l	7	22	20	8260B		7/8/2014	CJR	1
tert-Butylbenzene	< 7.2	ug/l	7.2	24	20	8260B		7/8/2014	CJR	1
sec-Butylbenzene	< 6.6	ug/l	6.6	20	20	8260B		7/8/2014	CJR	1
n-Butylbenzene	< 7	ug/l	7	22	20	8260B		7/8/2014	CJR	1
Carbon Tetrachloride	< 6.6	ug/l	6.6	22	20	8260B		7/8/2014	CJR	1
Chlorobenzene	< 4.8	ug/l	4.8	15.4	20	8260B		7/8/2014	CJR	1
Chloroethane	< 12.6	ug/l	12.6	40	20	8260B		7/8/2014	CJR	1
Chloroform	< 5.6	ug/l	5.6	17.6	20	8260B		7/8/2014	CJR	1
Chloromethane	< 16.2	ug/l	16.2	52	20	8260B		7/8/2014	CJR	1
2-Chlorotoluene	< 4.2	ug/l	4.2	13.2	20	8260B		7/8/2014	CJR	1
4-Chlorotoluene	< 4.2	ug/l	4.2	13.6	20	8260B		7/8/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 17.6	ug/l	17.6	56	20	8260B		7/8/2014	CJR	30
Dibromochloromethane	< 4.4	ug/l	4.4	14	20	8260B		7/8/2014	CJR	1
1,4-Dichlorobenzene	< 6	ug/l	6	19.2	20	8260B		7/8/2014	CJR	1
1,3-Dichlorobenzene	< 5.6	ug/l	5.6	17.8	20	8260B		7/8/2014	CJR	1
1,2-Dichlorobenzene	< 7.2	ug/l	7.2	24	20	8260B		7/8/2014	CJR	1
Dichlorodifluoromethane	< 8.8	ug/l	8.8	28	20	8260B		7/8/2014	CJR	1
1,2-Dichloroethane	< 8.2	ug/l	8.2	26	20	8260B		7/8/2014	CJR	1
1,1-Dichloroethane	< 6	ug/l	6	19.4	20	8260B		7/8/2014	CJR	1
1,1-Dichloroethene	< 8	ug/l	8	26	20	8260B		7/8/2014	CJR	1
cis-1,2-Dichloroethene	1350	ug/l	7.6	24	20	8260B		7/8/2014	CJR	1
trans-1,2-Dichloroethene	10.2 "J"	ug/l	7	22	20	8260B		7/8/2014	CJR	1
1,2-Dichloropropane	< 6.4	ug/l	6.4	20	20	8260B		7/8/2014	CJR	1
2,2-Dichloropropane	< 7.2	ug/l	7.2	24	20	8260B		7/8/2014	CJR	4 8
1,3-Dichloropropane	< 6.6	ug/l	6.6	20	20	8260B		7/8/2014	CJR	1
Di-isopropyl ether	< 4.6	ug/l	4.6	14.6	20	8260B		7/8/2014	CJR	1
EDB (1,2-Dibromoethane)	< 8.8	ug/l	8.8	28	20	8260B		7/8/2014	CJR	1
Ethylbenzene	< 11	ug/l	11	34	20	8260B		7/8/2014	CJR	1
Hexachlorobutadiene	< 30	ug/l	30	96	20	8260B		7/8/2014	CJR	1
Isopropylbenzene	< 6	ug/l	6	19.2	20	8260B		7/8/2014	CJR	1
p-Isopropyltoluene	< 6.2	ug/l	6.2	19.6	20	8260B		7/8/2014	CJR	1
Methylene chloride	< 10	ug/l	10	32	20	8260B		7/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.6	ug/l	4.6	14.8	20	8260B		7/8/2014	CJR	1
Naphthalene	< 34	ug/l	34	110	20	8260B		7/8/2014	CJR	1
n-Propylbenzene	< 5	ug/l	5	16.2	20	8260B		7/8/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 9	ug/l	9	28	20	8260B		7/8/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 6.6	ug/l	6.6	22	20	8260B		7/8/2014	CJR	1
Tetrachloroethene	< 6.6	ug/l	6.6	22	20	8260B		7/8/2014	CJR	1
Toluene	< 13.8	ug/l	13.8	44	20	8260B		7/8/2014	CJR	1
1,2,4-Trichlorobenzene	< 19.6	ug/l	19.6	62	20	8260B		7/8/2014	CJR	1
1,2,3-Trichlorobenzene	< 36	ug/l	36	116	20	8260B		7/8/2014	CJR	1
1,1,1-Trichloroethane	< 6.6	ug/l	6.6	20	20	8260B		7/8/2014	CJR	1
1,1,2-Trichloroethane	< 6.8	ug/l	6.8	22	20	8260B		7/8/2014	CJR	1
Trichloroethene (TCE)	< 6.6	ug/l	6.6	20	20	8260B		7/8/2014	CJR	1
Trichlorofluoromethane	< 14.2	ug/l	14.2	46	20	8260B		7/8/2014	CJR	1
1,2,4-Trimethylbenzene	< 44	ug/l	44	138	20	8260B		7/8/2014	CJR	1
1,3,5-Trimethylbenzene	< 28	ug/l	28	90	20	8260B		7/8/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253T  
**Sample ID** MPS-P-4  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	500	ug/l	3.6	11.4	20	8260B		7/8/2014	CJR	1
m&p-Xylene	< 13.8	ug/l	13.8	44	20	8260B		7/8/2014	CJR	1
o-Xylene	< 12.6	ug/l	12.6	40	20	8260B		7/8/2014	CJR	1
SUR - Toluene-d8	95	REC %			20	8260B		7/8/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			20	8260B		7/8/2014	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %			20	8260B		7/8/2014	CJR	1
SUR - Dibromofluoromethane	102	REC %			20	8260B		7/8/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	337	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	829	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	273	mg/l	37.8	120.2	20	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	295	mg/l	8	20	5	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253U  
 Sample ID MPS-P-5  
 Sample Matrix Water  
 Sample Date 6/26/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	137 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		7/7/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		7/7/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		7/7/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		7/7/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		7/7/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	247	ug/l	3.8	12	10	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		7/7/2014	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		7/7/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		7/7/2014	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253U  
**Sample ID** MPS-P-5  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	540	ug/l	1.8	5.7	10	8260B		7/7/2014	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		7/7/2014	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			10	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	89	REC %			10	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	103	REC %			10	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	98	REC %			10	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	292	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	396	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	160	mg/l	9.45	30.05	5	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	214	mg/l	3.2	8	2	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253V  
 Sample ID MPS-P-6  
 Sample Matrix Water  
 Sample Date 6/26/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	201	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		7/7/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		7/7/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		7/7/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		7/7/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		7/7/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	590	ug/l	3.8	12	10	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	3.7 "J"	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		7/7/2014	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		7/7/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		7/7/2014	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253V  
**Sample ID** MPS-P-6  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	460	ug/l	1.8	5.7	10	8260B		7/7/2014	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		7/7/2014	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %				10 8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	104	REC %				10 8260B		7/7/2014	CJR	1
SUR - Toluene-d8	96	REC %				10 8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	87	REC %				10 8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	321	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	194	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	198	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	267	mg/l	8	20	5	SM 4500CL		7/10/2014	MDK	1



Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253W  
 Sample ID MPS-P-7  
 Sample Matrix Water  
 Sample Date 6/26/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 60.1	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		7/7/2014	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		7/7/2014	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		7/7/2014	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		7/7/2014	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		7/7/2014	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		7/7/2014	CJR	30
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	24.4	ug/l	3.8	12	10	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 3.5	ug/l	3.5	11	10	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		7/7/2014	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		7/7/2014	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		7/7/2014	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		7/7/2014	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		7/7/2014	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		7/7/2014	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253W  
**Sample ID** MPS-P-7  
**Sample Matrix** Water  
**Sample Date** 6/26/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	490	ug/l	1.8	5.7	10	8260B		7/7/2014	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		7/7/2014	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			10	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %			10	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	105	REC %			10	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	98	REC %			10	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	199	mg/l	7.7	24	1	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	388	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	172	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	311	mg/l	8	20	5	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253X  
 Sample ID PZ-9  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 60.1	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	8
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253X  
**Sample ID** PZ-9  
**Sample Matrix** Water  
**Sample Date** 6/27/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	108	REC %			1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	83	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	322	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	294	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	175	mg/l	9.45	30.05	5	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	5.84	mg/l	1.6	4	1	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253Y  
 Sample ID MW-9  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	84.9 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	8
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253Y  
**Sample ID** MW-9  
**Sample Matrix** Water  
**Sample Date** 6/27/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	84	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	309	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	159	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	11.9	mg/l	9.45	30.05	5	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	2.27	mg/l	1.6	4	1	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 5027253Z  
 Sample ID PZ-10  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	93.5 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/7/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/7/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/7/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/7/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/7/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/7/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/7/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/7/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/7/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/7/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/7/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/7/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/7/2014	CJR	8
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/7/2014	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/7/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/7/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/7/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/7/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/7/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/7/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/7/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/7/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/7/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/7/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/7/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/7/2014	CJR	1



**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 5027253Z  
**Sample ID** PZ-10  
**Sample Matrix** Water  
**Sample Date** 6/27/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/7/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/7/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/7/2014	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		7/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	90	REC %			1	8260B		7/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	112	REC %			1	8260B		7/7/2014	CJR	1
SUR - Toluene-d8	86	REC %			1	8260B		7/7/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	171	mg/l	7.7	24	1	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	714	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	75.4	mg/l	9.45	30.05	5	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	121	mg/l	3.2	8	2	SM 4500CL		7/10/2014	MDK	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 527253AA  
**Sample ID** MW-10  
**Sample Matrix** Water  
**Sample Date** 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>Inorganic</b>										
<b>Metals</b>										
Boron, Dissolved	72.4 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
<b>Organic</b>										
<b>VOC's</b>										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 527253AA  
**Sample ID** MW-10  
**Sample Matrix** Water  
**Sample Date** 6/27/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	83	REC %			1	8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		7/9/2014	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		7/9/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	313	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	670	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	380	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	830	mg/l	16	40	10	SM 4500CL		7/10/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253BB  
 Sample ID PZ-11  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	67.1 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 527253BB  
**Sample ID** PZ-11  
**Sample Matrix** Water  
**Sample Date** 6/27/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	82	REC %			1	8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		7/9/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	312	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	493	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	444	mg/l	37.8	120.2	20	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	268	mg/l	8	20	5	SM 4500CL		7/9/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253CC  
 Sample ID MW-11  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	119 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	1.6 "J"	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 527253CC  
**Sample ID** MW-11  
**Sample Matrix** Water  
**Sample Date** 6/27/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	0.73	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63		2	1 8260B		7/9/2014	CJR	1
SUR - Toluene-d8	97	REC %				1 8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	106	REC %				1 8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	87	REC %				1 8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %				1 8260B		7/9/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	330	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	241	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	97.4	mg/l	18.9	60.1	10	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	320	mg/l	3.2	8	2	SM 4500CL		7/9/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253DD  
 Sample ID PZ-8  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	69.1 "J"	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1



**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 527253DD  
**Sample ID** PZ-8  
**Sample Matrix** Water  
**Sample Date** 6/27/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		7/9/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	82	REC %			1	8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		7/9/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	189	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	521	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	129	mg/l	9.45	30.05	5	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	30.0	mg/l	1.6	4	1	SM 4500CL		7/9/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253EE  
 Sample ID MW-8  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 60.1	ug/l	60.1	191.1	1	200.7		7/16/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		7/16/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		7/11/2014	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		7/28/2014	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1

**Project Name** GOODHOPE RD LANDFILL SITE  
**Project #** 14411

**Invoice #** E27253

**Lab Code** 527253EE  
**Sample ID** MW-8  
**Sample Matrix** Water  
**Sample Date** 6/27/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	82	REC %			1	8260B		7/9/2014	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Alkalinity, Total Unfiltered	275	mg/l	15.4	48	2	310.2		7/7/2014	MDK	1
Hardness, Total Unfiltered	232	mg/l	1.34	4	1	200.7		7/16/2014	CWT	1
Sulfate, Unfiltered	324	mg/l	94.5	300.5	50	ASTM D516-90,		7/11/2014	MDK	1
Chlorides, Unfiltered	193	mg/l	1.6	4	1	SM 4500CL		7/9/2014	MDK	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253FF  
 Sample ID DUP #1  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 12	ug/l	12	38.5	50	8260B		7/9/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		7/9/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		7/9/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		7/9/2014	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		7/9/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		7/9/2014	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 19	ug/l	19	60	50	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		7/9/2014	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		7/9/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		7/9/2014	CJR	1
Naphthalene	< 85	ug/l	85	275	50	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		7/9/2014	CJR	1
Tetrachloroethene	790	ug/l	16.5	55	50	8260B		7/9/2014	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	142	ug/l	16.5	50	50	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		7/9/2014	CJR	1
Vinyl Chloride	< 9	ug/l	9	28.5	50	8260B		7/9/2014	CJR	1
m&p-Xylene	< 34.5	ug/l	34.5	110	50	8260B		7/9/2014	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	83	REC %				8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	108	REC %				8260B		7/9/2014	CJR	1
SUR - Toluene-d8	101	REC %				8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %				8260B		7/9/2014	CJR	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253GG  
 Sample ID DUP #2  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	86	REC %			1	8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		7/9/2014	CJR	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253HH  
 Sample ID DUP #3  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	0.39 "J"	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	82	REC %			1	8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		7/9/2014	CJR	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253II  
 Sample ID EQUIP#1  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	87	REC %			1	8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		7/9/2014	CJR	1

Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253JJ  
 Sample ID EQUIP#2  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	84	REC %			1	8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		7/9/2014	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		7/9/2014	CJR	1



Project Name GOODHOPE RD LANDFILL SITE  
 Project # 14411

Invoice # E27253

Lab Code 527253KK  
 Sample ID TRIP BLANK  
 Sample Matrix Water  
 Sample Date 6/27/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		7/9/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		7/9/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		7/9/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		7/9/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		7/9/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		7/9/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		7/9/2014	CJR	23
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		7/9/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		7/9/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		7/9/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		7/9/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		7/9/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		7/9/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		7/9/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		7/9/2014	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		7/9/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		7/9/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		7/9/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		7/9/2014	CJR	30
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		7/9/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		7/9/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		7/9/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		7/9/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		7/9/2014	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		7/9/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		7/9/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		7/9/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		7/9/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		7/9/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		7/9/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		7/9/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		7/9/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		7/9/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		7/9/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		7/9/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		7/9/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		7/9/2014	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		7/9/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		7/9/2014	CJR	1
SUR - 4-Bromofluorobenzene	83	REC %			1	8260B		7/9/2014	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		7/9/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

***Code***      ***Comment***

- 1            Laboratory QC within limits.
- 4            The continuing calibration standard not within established limits.
- 8            Closing calibration standard not within established limits.
- 23          Area percent recovery less than 50%.
- 30          Area percent recovery below 50% for closing calibration standard.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**



A handwritten signature in blue ink, appearing to read "Michael J. [unclear]", is written over a horizontal line.

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: **14411**  
Sampler: (signature) *David Daily*

Project (Name / Location): **Goodhope Rd. Landfill site**  
Reports To: **Mafizal Islam** Invoice To: \_\_\_\_\_  
Company: **Sigma Group** Company: \_\_\_\_\_  
Address: **1300 W. Canal St.** Address: \_\_\_\_\_  
City State Zip: **Milw. WI** City State Zip: \_\_\_\_\_  
Phone: **414-643-4200** Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

Analysis Requested		Other Analysis																			
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	Alkalinity	Hardness	Boron	Cadmium	Lead	Selenium	Chloride	PID/FID
									X		X	X	X	X	X	X	X	X	X	X	X
									X		X	X	X	X	X	X	X	X	X	X	X
									X		X	X	X	X	X	X	X	X	X	X	X
									X		X	X	X	X	X	X	X	X	X	X	X
									X		X	X	X	X	X	X	X	X	X	X	X
									X		X	X	X	X	X	X	X	X	X	X	X
									X		X	X	X	X	X	X	X	X	X	X	X
									X		X	X	X	X	X	X	X	X	X	X	X
									X		X	X	X	X	X	X	X	X	X	X	X

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered ** Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<b>027255A</b>	<b>MW-22</b>	<b>6-25-14</b>	<b>10:45</b>		<b>G</b>		<b>5</b>	<b>GW</b>	<b>HCL HNO3</b>
<b>B</b>	<b>MW-D</b>		<b>10:57</b>		<b>G</b>		<b>5</b>		
<b>C</b>	<b>PZ-D</b>		<b>11:12</b>		<b>G</b>		<b>5</b>		
<b>D</b>	<b>MPS-P-2</b>		<b>11:37</b>		<b>G</b>		<b>5</b>		
<b>E</b>	<b>MW-26</b>		<b>12:05</b>		<b>G</b>		<b>5</b>		
<b>F</b>	<b>W-MW-11</b>		<b>12:34</b>		<b>G</b>		<b>5</b>		
<b>G</b>	<b>W-MW-10</b>		<b>12:40</b>		<b>G</b>		<b>5</b>		
<b>H</b>	<b>MW-4</b>		<b>1:22</b>		<b>G</b>		<b>5</b>		
<b>I</b>	<b>MPS P-3</b>		<b>2:00</b>		<b>G</b>		<b>5</b>		
<b>J</b>	<b>MPS MW-3</b>		<b>2:15</b>		<b>G</b>		<b>5</b>		

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

**\*\* only the HNO<sub>3</sub> is filtered**

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: **Drum**  
Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice: \_\_\_\_\_  
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) *David Daily* Time: **11:55** Date: **6-27-14**  
Received By: (sign) *M... -SEL* Time: **6-28-14** Date: **6-28-14**  
**8:30 AM**



## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**

Rush Analysis Date Required  
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: **14411**  
Sampler: (signature) *David Dailey*

Project (Name / Location): **Goodhope Rd. Landfill site**

Reports To: **Mafizul Islam** Invoice To: \_\_\_\_\_  
Company: **Sigma Group** Company: \_\_\_\_\_  
Address: **1300 W. Canal St.** Address: \_\_\_\_\_  
City State Zip: **Milw. WI** City State Zip: \_\_\_\_\_  
Phone: **414.643.4200** Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

**Analysis Requested**

**Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered <input checked="" type="checkbox"/> Y/ <input checked="" type="checkbox"/> N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	Alkalinity	Hardness	Boron	Cadmium	Lead	Selenium	Chloride	PID/ FID
<b>5027253 k</b>	<b>MW-C</b>	<b>6-25-14</b>	<b>2:40</b>		<b>G</b>		<b>5</b>	<b>GW</b>	<b>HCL HNO3</b>										<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>L</b>	<b>PZ-C</b>	<b>6-25-14</b>	<b>2:30</b>		<b>G</b>		<b>5</b>												<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>M</b>	<b>MW-A</b>	<b>6-25-14</b>	<b>3:15</b>		<b>G</b>		<b>5</b>												<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>N</b>	<b>PZ-A</b>	<b>6-25-14</b>	<b>3:20</b>		<b>G</b>		<b>5</b>												<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>O</b>	<b>MW-18</b>	<b>6-26-14</b>	<b>10:17</b>		<b>G</b>		<b>5</b>												<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>P</b>	<b>MW-6</b>	<b>6-26-14</b>	<b>10:40</b>		<b>G</b>		<b>5</b>												<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>Q</b>	<b>W-MW 45</b>	<b>6-26-14</b>	<b>11:30</b>		<b>G</b>		<b>5</b>												<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>R</b>	<b>W-MW 40</b>	<b>6-26-14</b>	<b>11:20</b>		<b>G</b>		<b>5</b>												<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>S</b>	<b>W-MW 55</b>	<b>6-26-14</b>	<b>12:30</b>		<b>G</b>		<b>5</b>												<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>T</b>	<b>MPS-P-4</b>	<b>6-26-14</b>	<b>1:25</b>		<b>G</b>		<b>5</b>												<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

**\*\* only the HNO3 is filtered**

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: **Dupe**  
Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice: **S**  
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) *David Dailey* Time: **11:55** Date: **6-27-14**  
Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
Received in Laboratory By: *Michelle SGL* Time: **8:30 AM** Date: **6-28-14**

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

### Sample Handling Request

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: **14411**  
Sampler: (signature) *Dair Daily*

Project (Name / Location): **Goodhope Rd. Landfill site**  
Reports To: **Maftzal Islam** Invoice To: \_\_\_\_\_  
Company: **Sigma Group** Company: \_\_\_\_\_  
Address: **1300 W. Canal St.** Address: \_\_\_\_\_  
City State Zip: **Milw. WI 53233** City State Zip: \_\_\_\_\_  
Phone: **414-643-4200** Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

Analysis Requested		Other Analysis																			
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	Alkalinity	Hardness	Baron	Cadmium	Lead	Selenium	Chloride	PID/ FID

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered *Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<b>S01753U</b>	<b>MPS-P-5</b>	<b>6-26-14</b>	<b>1:35</b>		<b>G</b>		<b>5</b>	<b>GW</b>	<b>HCL, HNO<sub>3</sub></b>
<b>V</b>	<b>MPS-P-6</b>	<b>6-26-14</b>	<b>2:05</b>		<b>G</b>		<b>5</b>	<b>GW</b>	
<b>W</b>	<b>MPS-P-7</b>	<b>6-26-14</b>	<b>2:15</b>		<b>G</b>		<b>5</b>	<b>GW</b>	
<b>X</b>	<b>PZ-9</b>	<b>6-27-14</b>	<b>8:40</b>		<b>G</b>		<b>5</b>	<b>GW</b>	
<b>Y</b>	<b>MW-9</b>		<b>8:30</b>		<b>G</b>		<b>5</b>	<b>GW</b>	
<b>Z</b>	<b>PZ-6</b>		<b>7:20</b>		<b>G</b>		<b>5</b>	<b>GW</b>	
<b>AA</b>	<b>MW-10</b>		<b>7:00</b>		<b>G</b>		<b>5</b>	<b>GW</b>	
<b>BB</b>	<b>PZ-11</b>		<b>9:15</b>		<b>G</b>		<b>5</b>	<b>GW</b>	
<b>CC</b>	<b>MW-11</b>		<b>9:35</b>		<b>G</b>		<b>5</b>	<b>GW</b>	
<b>DD</b>	<b>PZ-8</b>		<b>10:00</b>		<b>G</b>		<b>5</b>	<b>GW</b>	

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

*\*\* only the HNO<sub>3</sub> is filtered*

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: *Air*  
Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice: *X*  
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) *Dair Daily* Time **11:55** Date **6-27-14**  
Received By: (sign) *Mick Sel* Time **6:30 AM** Date **6-28-14**



## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: **14411**  
Sampler: (signature) *David Dailey*

Project (Name / Location): **Goodhope Rd. Landfill site**  
Reports To: **Mafizul Islam** Invoice To: \_\_\_\_\_  
Company: **Sigma Group** Company: \_\_\_\_\_  
Address: **1300 W. Canal St.** Address: \_\_\_\_\_  
City State Zip: **Milw. WI 53233** City State Zip: \_\_\_\_\_  
Phone: **414. 643-4200** Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_ FAX: \_\_\_\_\_

Analysis Requested		Other Analysis																				
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	Alkalinity	Hardness	Boron	Cadmium	Lead	Selenium	Chloride	PID/ FID	
									X		X			X	X	X	X	X	X	X	X	
											X											
											X											
											X											
											X											
											X											
											X											

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<b>SZ7253EE</b>	<b>MW-8</b>	<b>6-27-14</b>	<b>10:20</b>		<b>G</b>		<b>5</b>	<b>GW</b>	<b>HCL HNO<sub>3</sub></b>
<b>FP</b>	<b>Dup #1</b>	<b>6-25-14</b>	<b>-</b>		<b>G</b>		<b>3</b>	<b>GW</b>	<b>HCL</b>
<b>GG</b>	<b>Dup #2</b>	<b>6-25-14</b>	<b>-</b>		<b>G</b>		<b>3</b>	<b>GW</b>	<b>HCL</b>
<b>HH</b>	<b>Dup #3</b>	<b>6-26-14</b>	<b>-</b>		<b>G</b>		<b>3</b>	<b>GW</b>	<b>HCL</b>
<b>II</b>	<b>Equip #1</b>	<b>6-27-14</b>	<b>-</b>		<b>-</b>		<b>2</b>	<b>-</b>	<b>HCL</b>
<b>JJ</b>	<b>Equip #2</b>	<b>6-27-14</b>	<b>-</b>		<b>-</b>		<b>2</b>	<b>-</b>	<b>HCL</b>
<b>KK</b>	<b>Trip blank</b>	<b>-</b>	<b>-</b>		<b>-</b>		<b>2</b>	<b>-</b>	<b>HCL</b>

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

*\* only the HNO<sub>3</sub> is filtered*

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: **Duplicate**  
Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice   
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) *David Dailey* Time **11:55** Date **6-27-14**  
Received By: (sign) \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_  
Received in Laboratory By: *Mich Sel* Time: **8:30 AM** Date: **6-28-14**

# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

MAFIZUL ISLAM  
THE SIGMA GROUP, INC.  
1300 W. CANAL STREET  
MILWAUKEE, WI 53233

Report Date 14-Jan-14

Project Name GOOD HOPE ROAD LANDFILL  
Project # 14411

Invoice # E26319

Lab Code 5026319A  
Sample ID MW-8 664  
Sample Matrix water  
Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.120	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/24/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/24/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/24/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/24/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/24/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/24/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/24/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/24/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/24/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/24/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/24/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/24/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/24/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/24/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/24/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/24/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/24/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/24/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/24/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/24/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/24/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/24/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/24/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/24/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/24/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/24/2013	CJR	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319A  
 Sample ID MW-8 664  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/24/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/24/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/24/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/24/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/24/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/24/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/24/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/24/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/24/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/24/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/24/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/24/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/24/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/24/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/24/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/24/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/24/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/24/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/24/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/24/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/24/2013	CJR	1

Wet Chemistry

General

Chlorides, Filtered	83.4	mg/l	1.6	4	1	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	591	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	284	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	124	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1



**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319B  
**Sample ID** PZ-8 663  
**Sample Matrix** water  
**Sample Date** 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>Inorganic</b>										
<b>Metals</b>										
Boron, Dissolved	0.116	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
<b>Organic</b>										
<b>VOC's</b>										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/24/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/24/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/24/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/24/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/24/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/24/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/24/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/24/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/24/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/24/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/24/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/24/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/24/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/24/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/24/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/24/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/24/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/24/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/24/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/24/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/24/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/24/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/24/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/24/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/24/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/24/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/24/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/24/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/24/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/24/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/24/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/24/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/24/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/24/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/24/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/24/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/24/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/24/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/24/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/24/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/24/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/24/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/24/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/24/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/24/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/24/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/24/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/24/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/24/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/24/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319B

**Sample ID** PZ-8 663

**Sample Matrix** water

**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/24/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/24/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/24/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	32.5	mg/l	1.6	4	1	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	391	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	176	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	105	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319C  
 Sample ID MW-9 666  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319C

**Sample ID** MW-9 666

**Sample Matrix** water

**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	669	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	5.29	mg/l	1.6	4	1	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	351	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	79.7	mg/l	18.9	60.1	10	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319D  
 Sample ID PZ-9 665  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319D

**Sample ID** PZ-9 665

**Sample Matrix** water

**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	8.53	mg/l	1.6	4	1	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	635	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	295	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	121	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319E  
 Sample ID MW-10 668  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.072	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319E  
**Sample ID** MW-10 668  
**Sample Matrix** water  
**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	259	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	973	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	301	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	219	mg/l	18.9	60.1	10	ASTM D516-90,		1/13/2014	MDK	1



Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319F  
 Sample ID PZ-10 667  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319F

**Sample ID** PZ-10 667

**Sample Matrix** water

**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	276	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	262	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	46.7	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	56.5	mg/l	3.78	12.02	2	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319G  
 Sample ID MW-11 636  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319G

**Sample ID** MW-11 636

**Sample Matrix** water

**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1

**Wet Chemistry**

**General**

Hardness, Total Filtered	819	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	171	mg/l	1.6	4	1	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	312	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	207	mg/l	18.9	60.1	10	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319H  
 Sample ID PZ-11 669  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319H

**Sample ID** PZ-11 669

**Sample Matrix** water

**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	0.31 "J"	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1

**Wet Chemistry**

**General**

Chlorides, Filtered	380	mg/l	8	20	5	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	1190	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	304	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	358	mg/l	18.9	60.1	10	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319I  
 Sample ID MW-25 638  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		12/27/2013	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		12/27/2013	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	610	ug/l	3.8	12	10	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	4.9 "J"	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		12/27/2013	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		12/27/2013	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		12/27/2013	CJR	4
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319I

**Sample ID** MW-25 638

**Sample Matrix** water

**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	300	ug/l	1.8	5.7	10	8260B		12/27/2013	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	763	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	157	mg/l	1.6	4	1	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	305	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	123	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1



Lab Code 5026319J  
 Sample ID MW-26 639  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.087	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 12	ug/l	12	38.5	50	8260B		12/27/2013	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		12/27/2013	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		12/27/2013	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		12/27/2013	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		12/27/2013	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		12/27/2013	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	1280	ug/l	19	60	50	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		12/27/2013	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		12/27/2013	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		12/27/2013	CJR	1
Naphthalene	< 85	ug/l	85	275	50	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		12/27/2013	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		12/27/2013	CJR	4
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319J  
**Sample ID** MW-26 639  
**Sample Matrix** water  
**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	560	ug/l	9	28.5	50	8260B		12/27/2013	CJR	1
m&p-Xylene	< 34.5	ug/l	34.5	110	50	8260B		12/27/2013	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	250	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	808	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	351	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	134	mg/l	18.9	60.1	10	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319K  
 Sample ID MPS:P-2 646  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.069	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 4.8	ug/l	4.8	15.4	20	8260B		12/27/2013	CJR	1
Bromobenzene	< 6.4	ug/l	6.4	20	20	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 7.4	ug/l	7.4	24	20	8260B		12/27/2013	CJR	1
Bromoform	< 7	ug/l	7	22	20	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 7.2	ug/l	7.2	24	20	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 6.6	ug/l	6.6	20	20	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 7	ug/l	7	22	20	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 6.6	ug/l	6.6	22	20	8260B		12/27/2013	CJR	1
Chlorobenzene	< 4.8	ug/l	4.8	15.4	20	8260B		12/27/2013	CJR	1
Chloroethane	< 12.6	ug/l	12.6	40	20	8260B		12/27/2013	CJR	1
Chloroform	< 5.6	ug/l	5.6	17.6	20	8260B		12/27/2013	CJR	1
Chloromethane	< 16.2	ug/l	16.2	52	20	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 4.2	ug/l	4.2	13.2	20	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 4.2	ug/l	4.2	13.6	20	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 17.6	ug/l	17.6	56	20	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 4.4	ug/l	4.4	14	20	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 6	ug/l	6	19.2	20	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 5.6	ug/l	5.6	17.8	20	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 7.2	ug/l	7.2	24	20	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 8.8	ug/l	8.8	28	20	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 8.2	ug/l	8.2	26	20	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 6	ug/l	6	19.4	20	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 8	ug/l	8	26	20	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	1080	ug/l	7.6	24	20	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	< 7	ug/l	7	22	20	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 6.4	ug/l	6.4	20	20	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 7.2	ug/l	7.2	24	20	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 6.6	ug/l	6.6	20	20	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 4.6	ug/l	4.6	14.6	20	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 8.8	ug/l	8.8	28	20	8260B		12/27/2013	CJR	1
Ethylbenzene	< 11	ug/l	11	34	20	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 30	ug/l	30	96	20	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 6	ug/l	6	19.2	20	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 6.2	ug/l	6.2	19.6	20	8260B		12/27/2013	CJR	1
Methylene chloride	< 10	ug/l	10	32	20	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.6	ug/l	4.6	14.8	20	8260B		12/27/2013	CJR	1
Naphthalene	< 34	ug/l	34	110	20	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 5	ug/l	5	16.2	20	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 9	ug/l	9	28	20	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 6.6	ug/l	6.6	22	20	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 6.6	ug/l	6.6	22	20	8260B		12/27/2013	CJR	1
Toluene	< 13.8	ug/l	13.8	44	20	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 19.6	ug/l	19.6	62	20	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 36	ug/l	36	116	20	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 6.6	ug/l	6.6	20	20	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 6.8	ug/l	6.8	22	20	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 6.6	ug/l	6.6	20	20	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 14.2	ug/l	14.2	46	20	8260B		12/27/2013	CJR	4
1,2,4-Trimethylbenzene	< 44	ug/l	44	138	20	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 28	ug/l	28	90	20	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319K  
**Sample ID** MPS:P-2 646  
**Sample Matrix** water  
**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	940	ug/l	3.6	11.4	20	8260B		12/27/2013	CJR	1
m&p-Xylene	< 13.8	ug/l	13.8	44	20	8260B		12/27/2013	CJR	1
o-Xylene	< 12.6	ug/l	12.6	40	20	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	815	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	298	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	334	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	126	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319L  
 Sample ID MPS:P-3 648  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.088	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/27/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/27/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/27/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/27/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/27/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	91	ug/l	0.38	1.2	1	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	0.43 "J"	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/27/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/27/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/27/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/27/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319L  
**Sample ID** MPS:P-3 648  
**Sample Matrix** water  
**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	144	ug/l	0.18	0.57	1	8260B		12/27/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/27/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	642	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	249	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	322	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	86.2	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319M  
 Sample ID MPS:P-4 649  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.079	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 12	ug/l	12	38.5	50	8260B		12/27/2013	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		12/27/2013	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		12/27/2013	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		12/27/2013	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		12/27/2013	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		12/27/2013	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	1880	ug/l	19	60	50	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		12/27/2013	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		12/27/2013	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		12/27/2013	CJR	1
Naphthalene	< 85	ug/l	85	275	50	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		12/27/2013	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		12/27/2013	CJR	4
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319M  
**Sample ID** MPS:P-4 649  
**Sample Matrix** water  
**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	790	ug/l	9	28.5	50	8260B		12/27/2013	CJR	1
m&p-Xylene	< 34.5	ug/l	34.5	110	50	8260B		12/27/2013	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	297	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	765	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	342	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	116	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1



**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319N  
**Sample ID** MPS:P-5 660  
**Sample Matrix** water  
**Sample Date** 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
<b>Inorganic</b>										
<b>Metals</b>										
Boron, Dissolved	0.096	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
<b>Organic</b>										
<b>VOC's</b>										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		12/27/2013	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		12/27/2013	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	158	ug/l	3.8	12	10	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		12/27/2013	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		12/27/2013	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		12/27/2013	CJR	4
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319N  
**Sample ID** MPS:P-5 660  
**Sample Matrix** water  
**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	470	ug/l	1.8	5.7	10	8260B		12/27/2013	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	745	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	239	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	296	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	108	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 50263190  
 Sample ID MPS:P-6 661  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.071	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/26/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		12/27/2013	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		12/27/2013	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	580	ug/l	3.8	12	10	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	5.4 "J"	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		12/27/2013	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		12/27/2013	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		12/27/2013	CJR	4
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 50263190  
**Sample ID** MPS:P-6 661  
**Sample Matrix** water  
**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	490	ug/l	1.8	5.7	10	8260B		12/27/2013	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	771	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	336	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	319	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	117	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319P  
 Sample ID MPS:P-7 662  
 Sample Matrix water  
 Sample Date 12/17/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	1.28	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319P  
**Sample ID** MPS:P-7 662  
**Sample Matrix** water  
**Sample Date** 12/17/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	26.2	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	205	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	355	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	40.8	mg/l	7.7	24	1	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	182	mg/l	15.12	48.08	8	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319Q  
 Sample ID MW-4 609  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/27/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/27/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/27/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/27/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/27/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	19.1	ug/l	0.38	1.2	1	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	0.45 "J"	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/27/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/27/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/27/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Tetrachloroethene	1.67	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	14	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/27/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319Q

**Sample ID** MW-4 609

**Sample Matrix** water

**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	8.6	ug/l	0.18	0.57	1	8260B		12/27/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/27/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/27/2013	CJR	1

**Wet Chemistry**

**General**

Chlorides, Filtered	252	mg/l	3.2	8	2	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	778	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	337	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	135	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1



Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319R  
 Sample ID W-MW-4S 640  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319R  
**Sample ID** W-MW-4S 640  
**Sample Matrix** water  
**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	1830	mg/l	2.68	8	2	200.7		1/6/2014	CWT	1
Chlorides, Filtered	390	mg/l	8	20	5	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	609	mg/l	38.5	120	5	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	1190	mg/l	94.5	300.5	50	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319S  
 Sample ID W-MW-4D 641  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	0.43 "J"	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319S  
**Sample ID** W-MW-4D 641  
**Sample Matrix** water  
**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	150	mg/l	1.6	4	1	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	409	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	154	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	119	mg/l	18.9	60.1	10	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319T  
 Sample ID W-MW-10 632  
 Sample Matrix water  
 Sample Date 12/19/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.093	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 24	ug/l	24	77	100	8260B		12/26/2013	CJR	1
Bromobenzene	< 32	ug/l	32	100	100	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 37	ug/l	37	120	100	8260B		12/26/2013	CJR	1
Bromoform	< 35	ug/l	35	110	100	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 36	ug/l	36	120	100	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 33	ug/l	33	100	100	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 35	ug/l	35	110	100	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 33	ug/l	33	110	100	8260B		12/26/2013	CJR	1
Chlorobenzene	< 24	ug/l	24	77	100	8260B		12/26/2013	CJR	1
Chloroethane	< 63	ug/l	63	200	100	8260B		12/26/2013	CJR	1
Chloroform	< 28	ug/l	28	88	100	8260B		12/26/2013	CJR	1
Chloromethane	< 81	ug/l	81	260	100	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 21	ug/l	21	66	100	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 21	ug/l	21	68	100	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 88	ug/l	88	280	100	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 22	ug/l	22	70	100	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 30	ug/l	30	96	100	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 28	ug/l	28	89	100	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 36	ug/l	36	120	100	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 44	ug/l	44	140	100	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 41	ug/l	41	130	100	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 30	ug/l	30	97	100	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 40	ug/l	40	130	100	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	820	ug/l	38	120	100	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 35	ug/l	35	110	100	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 32	ug/l	32	100	100	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 36	ug/l	36	120	100	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 33	ug/l	33	100	100	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 23	ug/l	23	73	100	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 44	ug/l	44	140	100	8260B		12/26/2013	CJR	1
Ethylbenzene	< 55	ug/l	55	170	100	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 150	ug/l	150	480	100	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 30	ug/l	30	96	100	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 31	ug/l	31	98	100	8260B		12/26/2013	CJR	1
Methylene chloride	< 50	ug/l	50	160	100	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		12/26/2013	CJR	1
Naphthalene	< 170	ug/l	170	550	100	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 25	ug/l	25	81	100	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 45	ug/l	45	140	100	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 33	ug/l	33	110	100	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 33	ug/l	33	110	100	8260B		12/26/2013	CJR	1
Toluene	< 69	ug/l	69	220	100	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 98	ug/l	98	310	100	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 180	ug/l	180	580	100	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 33	ug/l	33	100	100	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 34	ug/l	34	110	100	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	73 "J"	ug/l	33	100	100	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 71	ug/l	71	230	100	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 220	ug/l	220	690	100	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 140	ug/l	140	450	100	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319T  
**Sample ID** W-MW-10 632  
**Sample Matrix** water  
**Sample Date** 12/19/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	500	ug/l	18	57	100	8260B		12/26/2013	CJR	1
m&p-Xylene	< 69	ug/l	69	220	100	8260B		12/26/2013	CJR	1
o-Xylene	< 63	ug/l	63	200	100	8260B		12/26/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	965	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	541	mg/l	8	20	5	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	345	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	128	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319U  
 Sample ID W-MW-11 633  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.084	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 24	ug/l	24	77	100	8260B		12/27/2013	CJR	1
Bromobenzene	< 32	ug/l	32	100	100	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 37	ug/l	37	120	100	8260B		12/27/2013	CJR	1
Bromoform	< 35	ug/l	35	110	100	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 36	ug/l	36	120	100	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 33	ug/l	33	100	100	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 35	ug/l	35	110	100	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 33	ug/l	33	110	100	8260B		12/27/2013	CJR	1
Chlorobenzene	< 24	ug/l	24	77	100	8260B		12/27/2013	CJR	1
Chloroethane	< 63	ug/l	63	200	100	8260B		12/27/2013	CJR	1
Chloroform	< 28	ug/l	28	88	100	8260B		12/27/2013	CJR	1
Chloromethane	< 81	ug/l	81	260	100	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 21	ug/l	21	66	100	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 21	ug/l	21	68	100	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 88	ug/l	88	280	100	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 22	ug/l	22	70	100	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 30	ug/l	30	96	100	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 28	ug/l	28	89	100	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 36	ug/l	36	120	100	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 44	ug/l	44	140	100	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 41	ug/l	41	130	100	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 30	ug/l	30	97	100	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 40	ug/l	40	130	100	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	4300	ug/l	38	120	100	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	< 35	ug/l	35	110	100	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 32	ug/l	32	100	100	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 36	ug/l	36	120	100	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 33	ug/l	33	100	100	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 23	ug/l	23	73	100	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 44	ug/l	44	140	100	8260B		12/27/2013	CJR	1
Ethylbenzene	< 55	ug/l	55	170	100	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 150	ug/l	150	480	100	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 30	ug/l	30	96	100	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 31	ug/l	31	98	100	8260B		12/27/2013	CJR	1
Methylene chloride	< 50	ug/l	50	160	100	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		12/27/2013	CJR	1
Naphthalene	< 170	ug/l	170	550	100	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 25	ug/l	25	81	100	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 45	ug/l	45	140	100	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 33	ug/l	33	110	100	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 33	ug/l	33	110	100	8260B		12/27/2013	CJR	1
Toluene	< 69	ug/l	69	220	100	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 98	ug/l	98	310	100	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 180	ug/l	180	580	100	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 33	ug/l	33	100	100	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 34	ug/l	34	110	100	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 33	ug/l	33	100	100	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 71	ug/l	71	230	100	8260B		12/27/2013	CJR	4
1,2,4-Trimethylbenzene	< 220	ug/l	220	690	100	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 140	ug/l	140	450	100	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319U  
**Sample ID** W-MW-11 633  
**Sample Matrix** water  
**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	254	ug/l	18	57	100	8260B		12/27/2013	CJR	1
m&p-Xylene	< 69	ug/l	69	220	100	8260B		12/27/2013	CJR	1
o-Xylene	< 63	ug/l	63	200	100	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	289	mg/l	8	20	5	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	834	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	375	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	115	mg/l	18.9	60.1	10	ASTM D516-90,		1/13/2014	MDK	1



Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319V  
 Sample ID MW-18 634  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.092	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	0.28 "J"	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	39	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	0.61 "J"	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	0.50 "J"	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319V

**Sample ID** MW-18 634

**Sample Matrix** water

**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	15.4	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1

**Wet Chemistry**

**General**

Hardness, Total Filtered	755	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	429	mg/l	8	20	5	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	309	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	147	mg/l	18.9	60.1	10	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319W  
 Sample ID PZ-A 631  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.158	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/27/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/27/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/27/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/27/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/27/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/27/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/27/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/27/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/27/2013	CJR	4
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319W

**Sample ID** PZ-A 631

**Sample Matrix** water

**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/27/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/27/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	115	mg/l	1.6	4	1	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	481	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	349	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	20.0	mg/l	7.56	24.04	4	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319X  
 Sample ID PZ-C 616  
 Sample Matrix water  
 Sample Date 12/18/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	< 0.060	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/27/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/27/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/27/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/27/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/27/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	4.5	ug/l	0.38	1.2	1	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/27/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/27/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/27/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/27/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/27/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319X

**Sample ID** PZ-C 616

**Sample Matrix** water

**Sample Date** 12/18/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	8.8	ug/l	0.18	0.57	1	8260B		12/27/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/27/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Chlorides, Filtered	127	mg/l	1.6	4	1	SM 4500CL		1/8/2014	MDK	1
Hardness, Total Filtered	324	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Alkalinity, Total Filtered	140	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	58.4	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319Y  
 Sample ID PZ-D 618  
 Sample Matrix water  
 Sample Date 12/19/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Boron, Dissolved	0.069	mg/l	0.06	0.191	1	200.7		1/6/2014	CWT	1
Cadmium, Dissolved	< 0.5	ug/L	0.5	1.7	1	200.7		1/6/2014	CWT	1
Lead, Dissolved	< 0.7	ug/L	0.7	2.5	1	7421		12/27/2013	CWT	1
Selenium, Dissolved	< 1	ug/l	1	3	1	7740		12/23/2013	CWT	1
Organic										
VOC's										
Benzene	< 24	ug/l	24	77	100	8260B		12/27/2013	CJR	1
Bromobenzene	< 32	ug/l	32	100	100	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 37	ug/l	37	120	100	8260B		12/27/2013	CJR	1
Bromoform	< 35	ug/l	35	110	100	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 36	ug/l	36	120	100	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 33	ug/l	33	100	100	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 35	ug/l	35	110	100	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 33	ug/l	33	110	100	8260B		12/27/2013	CJR	1
Chlorobenzene	< 24	ug/l	24	77	100	8260B		12/27/2013	CJR	1
Chloroethane	< 63	ug/l	63	200	100	8260B		12/27/2013	CJR	1
Chloroform	< 28	ug/l	28	88	100	8260B		12/27/2013	CJR	1
Chloromethane	< 81	ug/l	81	260	100	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 21	ug/l	21	66	100	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 21	ug/l	21	68	100	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 88	ug/l	88	280	100	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 22	ug/l	22	70	100	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 30	ug/l	30	96	100	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 28	ug/l	28	89	100	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 36	ug/l	36	120	100	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 44	ug/l	44	140	100	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 41	ug/l	41	130	100	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 30	ug/l	30	97	100	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 40	ug/l	40	130	100	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	3700	ug/l	38	120	100	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	42 "J"	ug/l	35	110	100	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 32	ug/l	32	100	100	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 36	ug/l	36	120	100	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 33	ug/l	33	100	100	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 23	ug/l	23	73	100	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 44	ug/l	44	140	100	8260B		12/27/2013	CJR	1
Ethylbenzene	< 55	ug/l	55	170	100	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 150	ug/l	150	480	100	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 30	ug/l	30	96	100	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 31	ug/l	31	98	100	8260B		12/27/2013	CJR	1
Methylene chloride	< 50	ug/l	50	160	100	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 23	ug/l	23	74	100	8260B		12/27/2013	CJR	1
Naphthalene	< 170	ug/l	170	550	100	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 25	ug/l	25	81	100	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 45	ug/l	45	140	100	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 33	ug/l	33	110	100	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 33	ug/l	33	110	100	8260B		12/27/2013	CJR	1
Toluene	< 69	ug/l	69	220	100	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 98	ug/l	98	310	100	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 180	ug/l	180	580	100	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 33	ug/l	33	100	100	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 34	ug/l	34	110	100	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 33	ug/l	33	100	100	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 71	ug/l	71	230	100	8260B		12/27/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 220	ug/l	220	690	100	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 140	ug/l	140	450	100	8260B		12/27/2013	CJR	1

**Project Name** GOOD HOPE ROAD LANDFILL  
**Project #** 14411

**Invoice #** E26319

**Lab Code** 5026319Y  
**Sample ID** PZ-D 618  
**Sample Matrix** water  
**Sample Date** 12/19/2013

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
Vinyl Chloride	1200	ug/l	18	57	100	8260B		12/27/2013	CJR	1
m&p-Xylene	< 69	ug/l	69	220	100	8260B		12/27/2013	CJR	1
o-Xylene	< 63	ug/l	63	200	100	8260B		12/27/2013	CJR	1
<b>Wet Chemistry</b>										
<b>General</b>										
Hardness, Total Filtered	1028	mg/l	1.34	4	1	200.7		1/6/2014	CWT	1
Chlorides, Filtered	577	mg/l	8	20	5	SM 4500CL		1/8/2014	MDK	1
Alkalinity, Total Filtered	330	mg/l	15.4	48	2	310.2		1/9/2014	MDK	1
Sulfate, Dissolved	129	mg/l	9.45	30.05	5	ASTM D516-90,		1/13/2014	MDK	1



Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 5026319Z

Sample ID DUP 1 649

Sample Matrix water

Sample Date

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		12/27/2013	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		12/27/2013	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	1940	ug/l	3.8	12	10	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	15.7	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		12/27/2013	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		12/27/2013	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		12/27/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		12/27/2013	CJR	1
Vinyl Chloride	700	ug/l	1.8	5.7	10	8260B		12/27/2013	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 526319AA  
 Sample ID DUP 2 639  
 Sample Matrix water  
 Sample Date

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		12/27/2013	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 3.5	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/27/2013	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		12/27/2013	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	1270	ug/l	3.8	12	10	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	5.1 "J"	ug/l	3.5	11	10	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		12/27/2013	CJR	1
Ethylbenzene	< 5.5	ug/l	5.5	17	10	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 3	ug/l	3	9.6	10	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 3.1	ug/l	3.1	9.8	10	8260B		12/27/2013	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		12/27/2013	CJR	1
Naphthalene	< 17	ug/l	17	55	10	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 2.5	ug/l	2.5	8.1	10	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		12/27/2013	CJR	1
Toluene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		12/27/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 22	ug/l	22	69	10	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 14	ug/l	14	45	10	8260B		12/27/2013	CJR	1
Vinyl Chloride	560	ug/l	1.8	5.7	10	8260B		12/27/2013	CJR	1
m&p-Xylene	< 6.9	ug/l	6.9	22	10	8260B		12/27/2013	CJR	1
o-Xylene	< 6.3	ug/l	6.3	20	10	8260B		12/27/2013	CJR	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 526319BB  
 Sample ID DUP 3 618  
 Sample Matrix water  
 Sample Date

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 12	ug/l	12	38.5	50	8260B		12/27/2013	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		12/27/2013	CJR	1
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		12/27/2013	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		12/27/2013	CJR	1
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		12/27/2013	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
n-Butylbenzene	< 17.5	ug/l	17.5	55	50	8260B		12/27/2013	CJR	1
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		12/27/2013	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		12/27/2013	CJR	1
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		12/27/2013	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		12/27/2013	CJR	1
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		12/27/2013	CJR	1
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		12/27/2013	CJR	1
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		12/27/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		12/27/2013	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		12/27/2013	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		12/27/2013	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		12/27/2013	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		12/27/2013	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		12/27/2013	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		12/27/2013	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		12/27/2013	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		12/27/2013	CJR	1
cis-1,2-Dichloroethene	3400	ug/l	19	60	50	8260B		12/27/2013	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		12/27/2013	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		12/27/2013	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		12/27/2013	CJR	4 8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		12/27/2013	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		12/27/2013	CJR	1
Ethylbenzene	< 27.5	ug/l	27.5	85	50	8260B		12/27/2013	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		12/27/2013	CJR	1
Isopropylbenzene	< 15	ug/l	15	48	50	8260B		12/27/2013	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		12/27/2013	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		12/27/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		12/27/2013	CJR	1
Naphthalene	< 85	ug/l	85	275	50	8260B		12/27/2013	CJR	1
n-Propylbenzene	< 12.5	ug/l	12.5	40.5	50	8260B		12/27/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		12/27/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		12/27/2013	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		12/27/2013	CJR	1
Toluene	< 34.5	ug/l	34.5	110	50	8260B		12/27/2013	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		12/27/2013	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		12/27/2013	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		12/27/2013	CJR	1
Trichloroethene (TCE)	< 16.5	ug/l	16.5	50	50	8260B		12/27/2013	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		12/27/2013	CJR	3 4
1,2,4-Trimethylbenzene	< 110	ug/l	110	345	50	8260B		12/27/2013	CJR	1
1,3,5-Trimethylbenzene	< 70	ug/l	70	225	50	8260B		12/27/2013	CJR	1
Vinyl Chloride	1000	ug/l	9	28.5	50	8260B		12/27/2013	CJR	1
m&p-Xylene	< 34.5	ug/l	34.5	110	50	8260B		12/27/2013	CJR	1
o-Xylene	< 31.5	ug/l	31.5	100	50	8260B		12/27/2013	CJR	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 526319CC  
 Sample ID EQUIP BLANK 998  
 Sample Matrix water  
 Sample Date

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 526319DD  
 Sample ID TRIP BLANK 1 999  
 Sample Matrix water  
 Sample Date

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1

Project Name GOOD HOPE ROAD LANDFILL  
 Project # 14411

Invoice # E26319

Lab Code 526319EE  
 Sample ID TRIP BLANK 2 999  
 Sample Matrix water  
 Sample Date

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/26/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/26/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/26/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/26/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/26/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/26/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/26/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/26/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/26/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/26/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/26/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/26/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/26/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/26/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/26/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/26/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/26/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/26/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/26/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/26/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/26/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/26/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/26/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/26/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/26/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/26/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/26/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/26/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/26/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/26/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/26/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/26/2013	CJR	4 8
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/26/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/26/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/26/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/26/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/26/2013	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

***Code***      ***Comment***

- 1            Laboratory QC within limits.
- 3            The matrix spike not within established limits.
- 4            The continuing calibration standard not within established limits.
- 8            Closing calibration standard not within established limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**



A handwritten signature in blue ink, appearing to read "Michael J. Steel", is written over a horizontal line.



CHAIN OF CUSTODY RECORD

# Synergy

Chain # **Nº 2605**

Page 1 of 4

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**  
 Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
 Account No. : \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Project #: 14411  
 Sampler: (signature) Jim Miley

Project (Name / Location): GOOD HOPE ROAD LANDFILL MILWAUKEE, WI  
 Reports To: MAHAZUL ISLAM Invoice To: \_\_\_\_\_  
 Company: SIGMA ENVIRONMENTAL Company: \_\_\_\_\_  
 Address: 1300 West Canal Street Address: \_\_\_\_\_  
 City State Zip: Milwaukee, WI 53233 City State Zip: same  
 Phone: 414-643-4125 Phone: \_\_\_\_\_  
 FAX: 414-643-4210 FAX: \_\_\_\_\_

		Analysis Requested										Other Analysis					PID/ FID						
Lab I.D.	Sample I.D.	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	Alkalinity	Chloride		Dissolved Hardness	Dissolved Boron	Dissolved Cadmium	Dissolved Lead	Dissolved Selenium	
6026319A	MW-8	12/17/13 12:00								X		X		X	X	X	X	X	X	X	X	X	
B	PZ-8	12/17/13 12:05								X		X		X	X	X	X	X	X	X	X	X	
C	MW-9	12/17/13 10:15								X		X		X	X	X	X	X	X	X	X	X	
D	PZ-9	12/17/13 10:20								X		X		X	X	X	X	X	X	X	X	X	
E	MW-10	12/17/13 9:20								X		X		X	X	X	X	X	X	X	X	X	
F	PZ-10	12/17/13 9:30								X		X		X	X	X	X	X	X	X	X	X	
G	MW-11	12/17/13 11:10								X		X		X	X	X	X	X	X	X	X	X	
H	PZ-11	12/17/13 11:15								X		X		X	X	X	X	X	X	X	X	X	
I	MW-25	12/17/13 14:05								X		X		X	X	X	X	X	X	X	X	X	
J	MW-26	12/18/13 13:30								X		X		X	X	X	X	X	X	X	X	X	

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.  
 Method of Shipment: Durban  
 Temp. of Temp. Blank \_\_\_\_\_ °C On Ice:   
 Cooler seal intact upon receipt:  Yes  No

Requested By: (signature) Jim Miley Time 12/19/13 13:00 Date \_\_\_\_\_ Received By: (signature) \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_  
 Received in Laboratory By: Christina Time: 8:00 Date: 12/20/13



CHAIN OF CUSTODY RECORD

# Synergy

## Environmental Lab, Inc.

Chain # **Nº 260**

Page **2** of **4**

**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_

(Rushes accepted only with prior authorization)

Normal Turn Around

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

Lab I.D. # \_\_\_\_\_  
Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: **14411**  
Sampler: (signature) *[Signature]*

Project (Name / Location): **GOOD HOPE ROAD LANDFILL MILWAUKEE, WI**  
Reports To: **MAFRAL ISLAM** Invoice To: \_\_\_\_\_  
Company: **SIGMA ENVIRONMENTAL** Company: \_\_\_\_\_  
Address: **1300 West Canal Street** Address: \_\_\_\_\_  
City State Zip: **Milwaukee, WI 53233** City State Zip: **Same**  
Phone: **414-643-4125** Phone: \_\_\_\_\_  
FAX: **414-643-4210** FAX: \_\_\_\_\_

Analysis Requested		Other Analysis						PID/ FID												
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	Alkalinity	Chloride	Dissolved Hardness	Dissolved Boron	Dissolved Cadmium	Dissolved Lead	Dissolved Selenium	

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
S02639k	MPS: P-2	12/18/13	8:45			Y	5	GW	HCL/HNO3
L	MPS: P-3	12/18/13	9:25			Y	5	GW	I
M	MPS: P-4	12/17/13	13:30			Y	5	GW	
N	MPS: P-5	12/17/13	13:20			Y	5	GW	
O	MPS: P-6	12/17/13	12:45			Y	5	GW	
P	MPS: P-7	12/17/13	12:50			Y	5	GW	
Q	MW-4	12/18/13	12:15			Y	5	GW	
R	W-MW-4S	12/18/13	10:05			Y	5	GW	
S	W-MW-4D	12/18/13	10:10			Y	5	GW	
T	W-MW-10	12/19/13	9:20			Y	5	GW	

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: **Random**  
Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice:   
Cooler seal intact upon receipt:  Yes  No

Released By: (signature) *[Signature]* Time: **12/19/13** Date: **13:00**  
Received By: (signature) \_\_\_\_\_ Time: **8:00** Date: **12/20/13**





CHAIN OF CUSTODY RECORD

# Synergy

## Environmental Lab, Inc.

Chain # **No 260**

Page 4 of 4

**Sample Handling Request**  
 Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

1990 Prospect Ct. • Appleton, WI 54914  
 920-830-2455 • FAX 920-733-0631

Lab I.D. # \_\_\_\_\_  
 Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Project #: 14411  
 Sampler: (signature) Sam Muly

Project (Name / Location): GOOD HOPE ROAD LANDFILL MILWAUKEE, WI

Reports To: MAFIZUL ISLAM Invoice To: \_\_\_\_\_  
 Company: SIGMA ENVIRONMENTAL Company: \_\_\_\_\_  
 Address: 1300 West Canal Street Address: Same  
 City State Zip: Milwaukee, WI 53233 City State Zip: \_\_\_\_\_  
 Phone: 414-643-4125 Phone: \_\_\_\_\_  
 FAX: 414-643-4210 FAX: \_\_\_\_\_

Analysis Requested											Other Analysis									
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	Alkalinity	Chloride	Dissolved Ammonia	Dissolved Boron	Dissolved Cadmium	Dissolved Lead	Dissolved Selenium	PID/ FID

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	Alkalinity	Chloride	Dissolved Ammonia	Dissolved Boron	Dissolved Cadmium	Dissolved Lead	Dissolved Selenium	PID/ FID
<u>526319</u>	<u>TRIP BLK.#2</u>	<u>-</u>	<u>-</u>			<u>N</u>	<u>1</u>	<u>-</u>	<u>HCL</u>												<u>X</u>									

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.  
 Method of Shipment: Refrigerated  
 Temp. of Temp. Blank \_\_\_\_\_ °C On Ice:   
 Cooler seal intact upon receipt:  Yes  No

Released By: (signature) Sam Muly Time: 12/19/13 Date: 13:00  
 Received By: (signature) \_\_\_\_\_ Time: 8:00 Date: 12/20/13  
 Received in Laboratory By: (signature) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_



# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

MAFIZUL ISLAM  
THE SIGMA GROUP, INC.  
1300 W. CANAL STREET  
MILWAUKEE, WI 53233

Report Date 02-Jul-14

Project Name WFB LANDFILL Invoice # E27181  
Project # 14411  
Lab Code 5027181A  
Sample ID B-27 10-12  
Sample Matrix Soil  
Sample Date 6/16/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.8	%			1	5021		6/19/2014	MDK	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		7/1/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		7/1/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		7/1/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		7/1/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		7/1/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		7/1/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		7/1/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		7/1/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		7/1/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		7/1/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		7/1/2014	CJR	1
Chloromethane	< 245	ug/kg	245	780	1	8260B		7/1/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		7/1/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		7/1/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		7/1/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		7/1/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		7/1/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		7/1/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		7/1/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		7/1/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		7/1/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		7/1/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		7/1/2014	CJR	1
cis-1,2-Dichloroethene	4300	ug/kg	24	77	1	8260B		7/1/2014	CJR	1
trans-1,2-Dichloroethene	83 "J"	ug/kg	29	93	1	8260B		7/1/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		7/1/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		7/1/2014	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		7/1/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		7/1/2014	CJR	1

Project Name WFB LANDFILL  
Project # 14411

Invoice # E27181

Lab Code 5027181A  
Sample ID B-27 10-12  
Sample Matrix Soil  
Sample Date 6/16/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		7/1/2014	CJR	1
Ethylbenzene	210	ug/kg	10	33	1	8260B		7/1/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		7/1/2014	CJR	1
Isopropylbenzene	196	ug/kg	25	80	1	8260B		7/1/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		7/1/2014	CJR	1
Methylene chloride	< 221	ug/kg	221	704	1	8260B		7/1/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		7/1/2014	CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		7/1/2014	CJR	1
n-Propylbenzene	159	ug/kg	24	75	1	8260B		7/1/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		7/1/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		7/1/2014	CJR	1
Tetrachloroethene	3700	ug/kg	49	157	1	8260B		7/1/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		7/1/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		7/1/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		7/1/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		7/1/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		7/1/2014	CJR	1
Trichloroethene (TCE)	2040	ug/kg	28	88	1	8260B		7/1/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		7/1/2014	CJR	1
1,2,4-Trimethylbenzene	660	ug/kg	26	81	1	8260B		7/1/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		7/1/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		7/1/2014	CJR	1
m&p-Xylene	156 "J"	ug/kg	68	216	1	8260B		7/1/2014	CJR	1
o-Xylene	71 "J"	ug/kg	31	98	1	8260B		7/1/2014	CJR	1
SUR - Toluene-d8	95	Rec %			1	8260B		7/1/2014	CJR	1
SUR - Dibromofluoromethane	96	Rec %			1	8260B		7/1/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	Rec %			1	8260B		7/1/2014	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			1	8260B		7/1/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E27181

Lab Code 5027181B  
 Sample ID B-28 10-12  
 Sample Matrix Soil  
 Sample Date 6/16/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.3	%			1	5021		6/19/2014	MDK	1
Organic										
VOC's										
Benzene	< 460	ug/kg	460	1450	50	8260B		7/1/2014	CJR	1
Bromobenzene	< 650	ug/kg	650	2000	50	8260B		7/1/2014	CJR	1
Bromodichloromethane	< 1350	ug/kg	1350	4250	50	8260B		7/1/2014	CJR	1
Bromoform	< 1500	ug/kg	1500	4750	50	8260B		7/1/2014	CJR	1
tert-Butylbenzene	< 1000	ug/kg	1000	3200	50	8260B		7/1/2014	CJR	1
sec-Butylbenzene	< 2050	ug/kg	2050	6600	50	8260B		7/1/2014	CJR	1
n-Butylbenzene	< 1300	ug/kg	1300	4100	50	8260B		7/1/2014	CJR	1
Carbon Tetrachloride	< 1250	ug/kg	1250	3950	50	8260B		7/1/2014	CJR	1
Chlorobenzene	< 800	ug/kg	800	2600	50	8260B		7/1/2014	CJR	1
Chloroethane	< 2100	ug/kg	2100	6650	50	8260B		7/1/2014	CJR	1
Chloroform	< 2450	ug/kg	2450	7850	50	8260B		7/1/2014	CJR	1
Chloromethane	< 12250	ug/kg	12250	39000	50	8260B		7/1/2014	CJR	1
2-Chlorotoluene	< 800	ug/kg	800	2600	50	8260B		7/1/2014	CJR	1
4-Chlorotoluene	< 700	ug/kg	700	2150	50	8260B		7/1/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 2400	ug/kg	2400	7700	50	8260B		7/1/2014	CJR	1
Dibromochloromethane	< 700	ug/kg	700	2250	50	8260B		7/1/2014	CJR	1
1,4-Dichlorobenzene	< 1650	ug/kg	1650	5150	50	8260B		7/1/2014	CJR	1
1,3-Dichlorobenzene	< 1500	ug/kg	1500	4750	50	8260B		7/1/2014	CJR	1
1,2-Dichlorobenzene	< 1900	ug/kg	1900	6100	50	8260B		7/1/2014	CJR	1
Dichlorodifluoromethane	< 2850	ug/kg	2850	9100	50	8260B		7/1/2014	CJR	1
1,2-Dichloroethane	< 1800	ug/kg	1800	5700	50	8260B		7/1/2014	CJR	1
1,1-Dichloroethane	< 950	ug/kg	950	3000	50	8260B		7/1/2014	CJR	1
1,1-Dichloroethene	< 1050	ug/kg	1050	3300	50	8260B		7/1/2014	CJR	1
cis-1,2-Dichloroethene	2370 "J"	ug/kg	1200	3850	50	8260B		7/1/2014	CJR	1
trans-1,2-Dichloroethene	< 1450	ug/kg	1450	4650	50	8260B		7/1/2014	CJR	1
1,2-Dichloropropane	< 475	ug/kg	475	1500	50	8260B		7/1/2014	CJR	1
2,2-Dichloropropane	< 2300	ug/kg	2300	7400	50	8260B		7/1/2014	CJR	1
1,3-Dichloropropane	< 1050	ug/kg	1050	3400	50	8260B		7/1/2014	CJR	1
Di-isopropyl ether	< 550	ug/kg	550	1700	50	8260B		7/1/2014	CJR	1
EDB (1,2-Dibromoethane)	< 1000	ug/kg	1000	3200	50	8260B		7/1/2014	CJR	1
Ethylbenzene	940 "J"	ug/kg	500	1650	50	8260B		7/1/2014	CJR	1
Hexachlorobutadiene	< 4750	ug/kg	4750	15200	50	8260B		7/1/2014	CJR	1
Isopropylbenzene	< 1250	ug/kg	1250	4000	50	8260B		7/1/2014	CJR	1
p-Isopropyltoluene	< 1550	ug/kg	1550	4900	50	8260B		7/1/2014	CJR	1
Methylene chloride	< 11050	ug/kg	11050	35200	50	8260B		7/1/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 1500	ug/kg	1500	4800	50	8260B		7/1/2014	CJR	1
Naphthalene	< 5700	ug/kg	5700	18150	50	8260B		7/1/2014	CJR	1
n-Propylbenzene	< 1200	ug/kg	1200	3750	50	8260B		7/1/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 600	ug/kg	600	1900	50	8260B		7/1/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 1150	ug/kg	1150	3700	50	8260B		7/1/2014	CJR	1
Tetrachloroethene	43000	ug/kg	2450	7850	50	8260B		7/1/2014	CJR	1
Toluene	< 1000	ug/kg	1000	3250	50	8260B		7/1/2014	CJR	1
1,2,4-Trichlorobenzene	< 3950	ug/kg	3950	12550	50	8260B		7/1/2014	CJR	1
1,2,3-Trichlorobenzene	< 6450	ug/kg	6450	20550	50	8260B		7/1/2014	CJR	1
1,1,1-Trichloroethane	< 1900	ug/kg	1900	6000	50	8260B		7/1/2014	CJR	1
1,1,2-Trichloroethane	< 1150	ug/kg	1150	3700	50	8260B		7/1/2014	CJR	1
Trichloroethene (TCE)	39000	ug/kg	1400	4400	50	8260B		7/1/2014	CJR	1
Trichlorofluoromethane	< 4300	ug/kg	4300	13650	50	8260B		7/1/2014	CJR	1
1,2,4-Trimethylbenzene	< 1300	ug/kg	1300	4050	50	8260B		7/1/2014	CJR	1
1,3,5-Trimethylbenzene	< 1300	ug/kg	1300	4200	50	8260B		7/1/2014	CJR	1
Vinyl Chloride	< 1050	ug/kg	1050	3300	50	8260B		7/1/2014	CJR	1
m&p-Xylene	< 3400	ug/kg	3400	10800	50	8260B		7/1/2014	CJR	1
o-Xylene	< 1550	ug/kg	1550	4900	50	8260B		7/1/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E27181

**Lab Code** 5027181B  
**Sample ID** B-28 10-12  
**Sample Matrix** Soil  
**Sample Date** 6/16/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	100	Rec %			50	8260B		7/1/2014	CJR	1
SUR - 4-Bromofluorobenzene	101	Rec %			50	8260B		7/1/2014	CJR	1
SUR - Dibromofluoromethane	102	Rec %			50	8260B		7/1/2014	CJR	1
SUR - Toluene-d8	93	Rec %			50	8260B		7/1/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E27181

Lab Code 5027181C  
 Sample ID B-29 8-10  
 Sample Matrix Soil  
 Sample Date 6/16/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.4	%			1	5021		6/19/2014	MDK	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		7/1/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		7/1/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		7/1/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		7/1/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		7/1/2014	CJR	1
sec-Butylbenzene	44 "J"	ug/kg	41	132	1	8260B		7/1/2014	CJR	1
n-Butylbenzene	89	ug/kg	26	82	1	8260B		7/1/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		7/1/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		7/1/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		7/1/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		7/1/2014	CJR	1
Chloromethane	< 245	ug/kg	245	780	1	8260B		7/1/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		7/1/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		7/1/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		7/1/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		7/1/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		7/1/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		7/1/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		7/1/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		7/1/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		7/1/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		7/1/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		7/1/2014	CJR	1
cis-1,2-Dichloroethene	43 "J"	ug/kg	24	77	1	8260B		7/1/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		7/1/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		7/1/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		7/1/2014	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		7/1/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		7/1/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		7/1/2014	CJR	1
Ethylbenzene	5100	ug/kg	10	33	1	8260B		7/1/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		7/1/2014	CJR	1
Isopropylbenzene	173	ug/kg	25	80	1	8260B		7/1/2014	CJR	1
p-Isopropyltoluene	42 "J"	ug/kg	31	98	1	8260B		7/1/2014	CJR	1
Methylene chloride	< 221	ug/kg	221	704	1	8260B		7/1/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		7/1/2014	CJR	1
Naphthalene	202 "J"	ug/kg	114	363	1	8260B		7/1/2014	CJR	1
n-Propylbenzene	470	ug/kg	24	75	1	8260B		7/1/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		7/1/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		7/1/2014	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		7/1/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		7/1/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		7/1/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		7/1/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		7/1/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		7/1/2014	CJR	1
Trichloroethene (TCE)	62 "J"	ug/kg	28	88	1	8260B		7/1/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		7/1/2014	CJR	1
1,2,4-Trimethylbenzene	1500	ug/kg	26	81	1	8260B		7/1/2014	CJR	1
1,3,5-Trimethylbenzene	550	ug/kg	26	84	1	8260B		7/1/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		7/1/2014	CJR	1
m&p-Xylene	7800	ug/kg	68	216	1	8260B		7/1/2014	CJR	1
o-Xylene	2500	ug/kg	31	98	1	8260B		7/1/2014	CJR	1



**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E27181

**Lab Code** 5027181C  
**Sample ID** B-29 8-10  
**Sample Matrix** Soil  
**Sample Date** 6/16/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	98	Rec %			1	8260B		7/1/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	99	Rec %			1	8260B		7/1/2014	CJR	1
SUR - 4-Bromofluorobenzene	108	Rec %			1	8260B		7/1/2014	CJR	1
SUR - Toluene-d8	97	Rec %			1	8260B		7/1/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E27181

Lab Code 5027181D  
 Sample ID B-30 10-12  
 Sample Matrix Soil  
 Sample Date 6/16/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.1	%			1	5021		6/19/2014	MDK	1
Organic										
VOC's										
Benzene	< 460	ug/kg	460	1450	50	8260B		7/1/2014	CJR	1
Bromobenzene	< 650	ug/kg	650	2000	50	8260B		7/1/2014	CJR	1
Bromodichloromethane	< 1350	ug/kg	1350	4250	50	8260B		7/1/2014	CJR	1
Bromoform	< 1500	ug/kg	1500	4750	50	8260B		7/1/2014	CJR	1
tert-Butylbenzene	< 1000	ug/kg	1000	3200	50	8260B		7/1/2014	CJR	1
sec-Butylbenzene	< 2050	ug/kg	2050	6600	50	8260B		7/1/2014	CJR	1
n-Butylbenzene	< 1300	ug/kg	1300	4100	50	8260B		7/1/2014	CJR	1
Carbon Tetrachloride	< 1250	ug/kg	1250	3950	50	8260B		7/1/2014	CJR	1
Chlorobenzene	< 800	ug/kg	800	2600	50	8260B		7/1/2014	CJR	1
Chloroethane	< 2100	ug/kg	2100	6650	50	8260B		7/1/2014	CJR	1
Chloroform	< 2450	ug/kg	2450	7850	50	8260B		7/1/2014	CJR	1
Chloromethane	< 12250	ug/kg	12250	39000	50	8260B		7/1/2014	CJR	1
2-Chlorotoluene	< 800	ug/kg	800	2600	50	8260B		7/1/2014	CJR	1
4-Chlorotoluene	< 700	ug/kg	700	2150	50	8260B		7/1/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 2400	ug/kg	2400	7700	50	8260B		7/1/2014	CJR	1
Dibromochloromethane	< 700	ug/kg	700	2250	50	8260B		7/1/2014	CJR	1
1,4-Dichlorobenzene	< 1650	ug/kg	1650	5150	50	8260B		7/1/2014	CJR	1
1,3-Dichlorobenzene	< 1500	ug/kg	1500	4750	50	8260B		7/1/2014	CJR	1
1,2-Dichlorobenzene	< 1900	ug/kg	1900	6100	50	8260B		7/1/2014	CJR	1
Dichlorodifluoromethane	< 2850	ug/kg	2850	9100	50	8260B		7/1/2014	CJR	1
1,2-Dichloroethane	< 1800	ug/kg	1800	5700	50	8260B		7/1/2014	CJR	1
1,1-Dichloroethane	< 950	ug/kg	950	3000	50	8260B		7/1/2014	CJR	1
1,1-Dichloroethene	< 1050	ug/kg	1050	3300	50	8260B		7/1/2014	CJR	1
cis-1,2-Dichloroethene	< 1200	ug/kg	1200	3850	50	8260B		7/1/2014	CJR	1
trans-1,2-Dichloroethene	< 1450	ug/kg	1450	4650	50	8260B		7/1/2014	CJR	1
1,2-Dichloropropane	< 475	ug/kg	475	1500	50	8260B		7/1/2014	CJR	1
2,2-Dichloropropane	< 2300	ug/kg	2300	7400	50	8260B		7/1/2014	CJR	1
1,3-Dichloropropane	< 1050	ug/kg	1050	3400	50	8260B		7/1/2014	CJR	1
Di-isopropyl ether	< 550	ug/kg	550	1700	50	8260B		7/1/2014	CJR	1
EDB (1,2-Dibromoethane)	< 1000	ug/kg	1000	3200	50	8260B		7/1/2014	CJR	1
Ethylbenzene	< 500	ug/kg	500	1650	50	8260B		7/1/2014	CJR	1
Hexachlorobutadiene	< 4750	ug/kg	4750	15200	50	8260B		7/1/2014	CJR	1
Isopropylbenzene	< 1250	ug/kg	1250	4000	50	8260B		7/1/2014	CJR	1
p-Isopropyltoluene	< 1550	ug/kg	1550	4900	50	8260B		7/1/2014	CJR	1
Methylene chloride	< 11050	ug/kg	11050	35200	50	8260B		7/1/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 1500	ug/kg	1500	4800	50	8260B		7/1/2014	CJR	1
Naphthalene	< 5700	ug/kg	5700	18150	50	8260B		7/1/2014	CJR	1
n-Propylbenzene	< 1200	ug/kg	1200	3750	50	8260B		7/1/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 600	ug/kg	600	1900	50	8260B		7/1/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 1150	ug/kg	1150	3700	50	8260B		7/1/2014	CJR	1
Tetrachloroethene	37000	ug/kg	2450	7850	50	8260B		7/1/2014	CJR	1
Toluene	< 1000	ug/kg	1000	3250	50	8260B		7/1/2014	CJR	1
1,2,4-Trichlorobenzene	< 3950	ug/kg	3950	12550	50	8260B		7/1/2014	CJR	1
1,2,3-Trichlorobenzene	< 6450	ug/kg	6450	20550	50	8260B		7/1/2014	CJR	1
1,1,1-Trichloroethane	< 1900	ug/kg	1900	6000	50	8260B		7/1/2014	CJR	1
1,1,2-Trichloroethane	< 1150	ug/kg	1150	3700	50	8260B		7/1/2014	CJR	1
Trichloroethene (TCE)	3500 "J"	ug/kg	1400	4400	50	8260B		7/1/2014	CJR	1
Trichlorofluoromethane	< 4300	ug/kg	4300	13650	50	8260B		7/1/2014	CJR	1
1,2,4-Trimethylbenzene	< 1300	ug/kg	1300	4050	50	8260B		7/1/2014	CJR	1
1,3,5-Trimethylbenzene	< 1300	ug/kg	1300	4200	50	8260B		7/1/2014	CJR	1
Vinyl Chloride	< 1050	ug/kg	1050	3300	50	8260B		7/1/2014	CJR	1
m&p-Xylene	< 3400	ug/kg	3400	10800	50	8260B		7/1/2014	CJR	1
o-Xylene	< 1550	ug/kg	1550	4900	50	8260B		7/1/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E27181

**Lab Code** 5027181D  
**Sample ID** B-30 10-12  
**Sample Matrix** Soil  
**Sample Date** 6/16/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	96	Rec %			50	8260B		7/1/2014	CJR	1
SUR - Dibromofluoromethane	99	Rec %			50	8260B		7/1/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	111	Rec %			50	8260B		7/1/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	Rec %			50	8260B		7/1/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E27181

Lab Code 5027181E  
 Sample ID B-31 4-5  
 Sample Matrix Soil  
 Sample Date 6/16/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.5	%			1	5021		6/19/2014	MDK	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		7/1/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		7/1/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		7/1/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		7/1/2014	CJR	1
tert-Butylbenzene	21.8 "J"	ug/kg	20	64	1	8260B		7/1/2014	CJR	1
sec-Butylbenzene	420	ug/kg	41	132	1	8260B		7/1/2014	CJR	1
n-Butylbenzene	780	ug/kg	26	82	1	8260B		7/1/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		7/1/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		7/1/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		7/1/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		7/1/2014	CJR	1
Chloromethane	< 245	ug/kg	245	780	1	8260B		7/1/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		7/1/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		7/1/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		7/1/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		7/1/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		7/1/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		7/1/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		7/1/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		7/1/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		7/1/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		7/1/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		7/1/2014	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		7/1/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		7/1/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		7/1/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		7/1/2014	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		7/1/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		7/1/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		7/1/2014	CJR	1
Ethylbenzene	249	ug/kg	10	33	1	8260B		7/1/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		7/1/2014	CJR	1
Isopropylbenzene	580	ug/kg	25	80	1	8260B		7/1/2014	CJR	1
p-Isopropyltoluene	740	ug/kg	31	98	1	8260B		7/1/2014	CJR	1
Methylene chloride	< 221	ug/kg	221	704	1	8260B		7/1/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		7/1/2014	CJR	1
Naphthalene	1280	ug/kg	114	363	1	8260B		7/1/2014	CJR	1
n-Propylbenzene	830	ug/kg	24	75	1	8260B		7/1/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		7/1/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		7/1/2014	CJR	1
Tetrachloroethene	233	ug/kg	49	157	1	8260B		7/1/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		7/1/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		7/1/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		7/1/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		7/1/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		7/1/2014	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		7/1/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		7/1/2014	CJR	1
1,2,4-Trimethylbenzene	41 "J"	ug/kg	26	81	1	8260B		7/1/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		7/1/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		7/1/2014	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		7/1/2014	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		7/1/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E27181

**Lab Code** 5027181E  
**Sample ID** B-31 4-5  
**Sample Matrix** Soil  
**Sample Date** 6/16/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B		7/1/2014	CJR	1
SUR - 4-Bromofluorobenzene	115	Rec %			1	8260B		7/1/2014	CJR	1
SUR - Dibromofluoromethane	99	Rec %			1	8260B		7/1/2014	CJR	1
SUR - Toluene-d8	119	Rec %			1	8260B		7/1/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E27181

Lab Code 5027181F  
 Sample ID B-31 10-12  
 Sample Matrix Soil  
 Sample Date 6/16/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.7	%			1	5021		6/19/2014	MDK	1
Organic										
VOC's										
Benzene	< 460	ug/kg	460	1450	50	8260B		7/1/2014	CJR	1
Bromobenzene	< 650	ug/kg	650	2000	50	8260B		7/1/2014	CJR	1
Bromodichloromethane	< 1350	ug/kg	1350	4250	50	8260B		7/1/2014	CJR	1
Bromoform	< 1500	ug/kg	1500	4750	50	8260B		7/1/2014	CJR	1
tert-Butylbenzene	< 1000	ug/kg	1000	3200	50	8260B		7/1/2014	CJR	1
sec-Butylbenzene	< 2050	ug/kg	2050	6600	50	8260B		7/1/2014	CJR	1
n-Butylbenzene	< 1300	ug/kg	1300	4100	50	8260B		7/1/2014	CJR	1
Carbon Tetrachloride	< 1250	ug/kg	1250	3950	50	8260B		7/1/2014	CJR	1
Chlorobenzene	< 800	ug/kg	800	2600	50	8260B		7/1/2014	CJR	1
Chloroethane	< 2100	ug/kg	2100	6650	50	8260B		7/1/2014	CJR	1
Chloroform	< 2450	ug/kg	2450	7850	50	8260B		7/1/2014	CJR	1
Chloromethane	< 12250	ug/kg	12250	39000	50	8260B		7/1/2014	CJR	1
2-Chlorotoluene	< 800	ug/kg	800	2600	50	8260B		7/1/2014	CJR	1
4-Chlorotoluene	< 700	ug/kg	700	2150	50	8260B		7/1/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 2400	ug/kg	2400	7700	50	8260B		7/1/2014	CJR	1
Dibromochloromethane	< 700	ug/kg	700	2250	50	8260B		7/1/2014	CJR	1
1,4-Dichlorobenzene	< 1650	ug/kg	1650	5150	50	8260B		7/1/2014	CJR	1
1,3-Dichlorobenzene	< 1500	ug/kg	1500	4750	50	8260B		7/1/2014	CJR	1
1,2-Dichlorobenzene	< 1900	ug/kg	1900	6100	50	8260B		7/1/2014	CJR	1
Dichlorodifluoromethane	< 2850	ug/kg	2850	9100	50	8260B		7/1/2014	CJR	1
1,2-Dichloroethane	< 1800	ug/kg	1800	5700	50	8260B		7/1/2014	CJR	1
1,1-Dichloroethane	< 950	ug/kg	950	3000	50	8260B		7/1/2014	CJR	1
1,1-Dichloroethene	< 1050	ug/kg	1050	3300	50	8260B		7/1/2014	CJR	1
cis-1,2-Dichloroethene	< 1200	ug/kg	1200	3850	50	8260B		7/1/2014	CJR	1
trans-1,2-Dichloroethene	< 1450	ug/kg	1450	4650	50	8260B		7/1/2014	CJR	1
1,2-Dichloropropane	< 475	ug/kg	475	1500	50	8260B		7/1/2014	CJR	1
2,2-Dichloropropane	< 2300	ug/kg	2300	7400	50	8260B		7/1/2014	CJR	1
1,3-Dichloropropane	< 1050	ug/kg	1050	3400	50	8260B		7/1/2014	CJR	1
Di-isopropyl ether	< 550	ug/kg	550	1700	50	8260B		7/1/2014	CJR	1
EDB (1,2-Dibromoethane)	< 1000	ug/kg	1000	3200	50	8260B		7/1/2014	CJR	1
Ethylbenzene	< 500	ug/kg	500	1650	50	8260B		7/1/2014	CJR	1
Hexachlorobutadiene	< 4750	ug/kg	4750	15200	50	8260B		7/1/2014	CJR	1
Isopropylbenzene	< 1250	ug/kg	1250	4000	50	8260B		7/1/2014	CJR	1
p-Isopropyltoluene	< 1550	ug/kg	1550	4900	50	8260B		7/1/2014	CJR	1
Methylene chloride	< 11050	ug/kg	11050	35200	50	8260B		7/1/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 1500	ug/kg	1500	4800	50	8260B		7/1/2014	CJR	1
Naphthalene	< 5700	ug/kg	5700	18150	50	8260B		7/1/2014	CJR	1
n-Propylbenzene	< 1200	ug/kg	1200	3750	50	8260B		7/1/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 600	ug/kg	600	1900	50	8260B		7/1/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 1150	ug/kg	1150	3700	50	8260B		7/1/2014	CJR	1
Tetrachloroethene	86000	ug/kg	2450	7850	50	8260B		7/1/2014	CJR	1
Toluene	< 1000	ug/kg	1000	3250	50	8260B		7/1/2014	CJR	1
1,2,4-Trichlorobenzene	< 3950	ug/kg	3950	12550	50	8260B		7/1/2014	CJR	1
1,2,3-Trichlorobenzene	< 6450	ug/kg	6450	20550	50	8260B		7/1/2014	CJR	1
1,1,1-Trichloroethane	< 1900	ug/kg	1900	6000	50	8260B		7/1/2014	CJR	1
1,1,2-Trichloroethane	< 1150	ug/kg	1150	3700	50	8260B		7/1/2014	CJR	1
Trichloroethene (TCE)	2160 "J"	ug/kg	1400	4400	50	8260B		7/1/2014	CJR	1
Trichlorofluoromethane	< 4300	ug/kg	4300	13650	50	8260B		7/1/2014	CJR	1
1,2,4-Trimethylbenzene	< 1300	ug/kg	1300	4050	50	8260B		7/1/2014	CJR	1
1,3,5-Trimethylbenzene	< 1300	ug/kg	1300	4200	50	8260B		7/1/2014	CJR	1
Vinyl Chloride	< 1050	ug/kg	1050	3300	50	8260B		7/1/2014	CJR	1
m&p-Xylene	< 3400	ug/kg	3400	10800	50	8260B		7/1/2014	CJR	1
o-Xylene	< 1550	ug/kg	1550	4900	50	8260B		7/1/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E27181

**Lab Code** 5027181F  
**Sample ID** B-31 10-12  
**Sample Matrix** Soil  
**Sample Date** 6/16/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	95	Rec %			50	8260B		7/1/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	114	Rec %			50	8260B		7/1/2014	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			50	8260B		7/1/2014	CJR	1
SUR - Dibromofluoromethane	100	Rec %			50	8260B		7/1/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

***Code***      ***Comment***

1              Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**



Michael J. Steel





# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

MAFIZUL ISLAM  
THE SIGMA GROUP, INC.  
1300 W. CANAL STREET  
MILWAUKEE, WI 53233

Report Date 02-Jun-14

Project Name WHITEFISH BAY LANDFILL  
Project # 14411

Invoice # E27049

Lab Code 5027049A  
Sample ID B-26 (2-4')  
Sample Matrix Soil  
Sample Date 5/28/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.6	%			1	5021		5/30/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/30/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/30/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/30/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/30/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/30/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/30/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/30/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/30/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/30/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/30/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/30/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/30/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/30/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/30/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/30/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/30/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/30/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/30/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/30/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/30/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/30/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/30/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/30/2014	CJR	1
cis-1,2-Dichloroethene	30.5 "J"	ug/kg	24	77	1	8260B		5/30/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		5/30/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/30/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/30/2014	CJR	4 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/30/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/30/2014	CJR	1

**Project Name** WHITEFISH BAY LANDFILL  
**Project #** 14411

**Invoice #** E27049

**Lab Code** 5027049A  
**Sample ID** B-26 (2-4)  
**Sample Matrix** Soil  
**Sample Date** 5/28/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B	5/30/2014	5/30/2014	CJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B	5/30/2014	5/30/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B	5/30/2014	5/30/2014	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B	5/30/2014	5/30/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B	5/30/2014	5/30/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B	5/30/2014	5/30/2014	CJR	7
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B	5/30/2014	5/30/2014	CJR	7
Naphthalene	< 114	ug/kg	114	363	1	8260B	5/30/2014	5/30/2014	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B	5/30/2014	5/30/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B	5/30/2014	5/30/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B	5/30/2014	5/30/2014	CJR	1
Tetrachloroethene	12100	ug/kg	49	157	1	8260B	5/30/2014	5/30/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B	5/30/2014	5/30/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B	5/30/2014	5/30/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B	5/30/2014	5/30/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B	5/30/2014	5/30/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B	5/30/2014	5/30/2014	CJR	1
Trichloroethene (TCE)	1100	ug/kg	28	88	1	8260B	5/30/2014	5/30/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B	5/30/2014	5/30/2014	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B	5/30/2014	5/30/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B	5/30/2014	5/30/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B	5/30/2014	5/30/2014	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B	5/30/2014	5/30/2014	CJR	1
o-Xylene	52 "J"	ug/kg	31	98	1	8260B	5/30/2014	5/30/2014	CJR	1
SUR - Toluene-d8	87	Rec %			1	8260B	5/30/2014	5/30/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B	5/30/2014	5/30/2014	CJR	1
SUR - 4-Bromofluorobenzene	92	Rec %			1	8260B	5/30/2014	5/30/2014	CJR	1
SUR - Dibromofluoromethane	99	Rec %			1	8260B	5/30/2014	5/30/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

**Code**      **Comment**

- 1      Laboratory QC within limits.
- 4      The continuing calibration standard not within established limits.
- 7      The LCS not within established limits.
- 8      Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**



# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

MAFIZUL ISLAM  
THE SIGMA GROUP, INC.  
1300 W. CANAL STREET  
MILWAUKEE, WI 53233

Report Date 23-May-14

Project Name WFB LANDFILL  
Project # 14411

Invoice # E26978

Lab Code 5026978A  
Sample ID B-23 (12-14)  
Sample Matrix Soil  
Sample Date 5/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.7	%			1	5021		5/14/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B	5/16/2014	5/17/2014	MJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B	5/16/2014	5/17/2014	MJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B	5/16/2014	5/17/2014	MJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B	5/16/2014	5/17/2014	MJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B	5/16/2014	5/17/2014	MJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B	5/16/2014	5/17/2014	MJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B	5/16/2014	5/17/2014	MJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B	5/16/2014	5/17/2014	MJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B	5/16/2014	5/17/2014	MJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B	5/16/2014	5/17/2014	MJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B	5/16/2014	5/17/2014	MJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B	5/16/2014	5/17/2014	MJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B	5/16/2014	5/17/2014	MJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B	5/16/2014	5/17/2014	MJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B	5/16/2014	5/17/2014	MJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B	5/16/2014	5/17/2014	MJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B	5/16/2014	5/17/2014	MJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B	5/16/2014	5/17/2014	MJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B	5/16/2014	5/17/2014	MJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B	5/16/2014	5/17/2014	MJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B	5/16/2014	5/17/2014	MJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B	5/16/2014	5/17/2014	MJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B	5/16/2014	5/17/2014	MJR	1

Project Name WFB LANDFILL  
Project # 14411

Invoice # E26978

Lab Code 5026978A  
Sample ID B-23 (12-14)  
Sample Matrix Soil  
Sample Date 5/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B	5/16/2014	5/17/2014	MJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B	5/16/2014	5/17/2014	MJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B	5/16/2014	5/17/2014	MJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B	5/16/2014	5/17/2014	MJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B	5/16/2014	5/17/2014	MJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B	5/16/2014	5/17/2014	MJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B	5/16/2014	5/17/2014	MJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B	5/16/2014	5/17/2014	MJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B	5/16/2014	5/17/2014	MJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B	5/16/2014	5/17/2014	MJR	1
Toluene	< 20	ug/kg	20	65	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B	5/16/2014	5/17/2014	MJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B	5/16/2014	5/17/2014	MJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B	5/16/2014	5/17/2014	MJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B	5/16/2014	5/17/2014	MJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B	5/16/2014	5/17/2014	MJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B	5/16/2014	5/17/2014	MJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - Toluene-d8	96	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - 1,2-Dichloroethane-d4	106	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - 4-Bromofluorobenzene	99	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - Dibromofluoromethane	96	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26978

Lab Code 5026978B  
 Sample ID B-24 (12-14)  
 Sample Matrix Soil  
 Sample Date 5/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.1	%			1	5021		5/14/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B	5/16/2014	5/17/2014	MJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B	5/16/2014	5/17/2014	MJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B	5/16/2014	5/17/2014	MJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B	5/16/2014	5/17/2014	MJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B	5/16/2014	5/17/2014	MJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B	5/16/2014	5/17/2014	MJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B	5/16/2014	5/17/2014	MJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B	5/16/2014	5/17/2014	MJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B	5/16/2014	5/17/2014	MJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B	5/16/2014	5/17/2014	MJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B	5/16/2014	5/17/2014	MJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B	5/16/2014	5/17/2014	MJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B	5/16/2014	5/17/2014	MJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B	5/16/2014	5/17/2014	MJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B	5/16/2014	5/17/2014	MJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B	5/16/2014	5/17/2014	MJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B	5/16/2014	5/17/2014	MJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B	5/16/2014	5/17/2014	MJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B	5/16/2014	5/17/2014	MJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B	5/16/2014	5/17/2014	MJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B	5/16/2014	5/17/2014	MJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B	5/16/2014	5/17/2014	MJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B	5/16/2014	5/17/2014	MJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B	5/16/2014	5/17/2014	MJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B	5/16/2014	5/17/2014	MJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B	5/16/2014	5/17/2014	MJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B	5/16/2014	5/17/2014	MJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B	5/16/2014	5/17/2014	MJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B	5/16/2014	5/17/2014	MJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B	5/16/2014	5/17/2014	MJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B	5/16/2014	5/17/2014	MJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B	5/16/2014	5/17/2014	MJR	1
Tetrachloroethene	211	ug/kg	49	157	1	8260B	5/16/2014	5/17/2014	MJR	1
Toluene	< 20	ug/kg	20	65	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B	5/16/2014	5/17/2014	MJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B	5/16/2014	5/17/2014	MJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B	5/16/2014	5/17/2014	MJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B	5/16/2014	5/17/2014	MJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B	5/16/2014	5/17/2014	MJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B	5/16/2014	5/17/2014	MJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B	5/16/2014	5/17/2014	MJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26978

**Lab Code** 5026978B  
**Sample ID** B-24 (12-14)  
**Sample Matrix** Soil  
**Sample Date** 5/12/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	97	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - 1,2-Dichloroethane-d4	98	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - 4-Bromofluorobenzene	99	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - Toluene-d8	91	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26978

Lab Code 5026978C  
 Sample ID B-25 (10-12)  
 Sample Matrix Soil  
 Sample Date 5/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.2	%			1	5021		5/14/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B	5/16/2014	5/17/2014	MJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B	5/16/2014	5/17/2014	MJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B	5/16/2014	5/17/2014	MJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B	5/16/2014	5/17/2014	MJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B	5/16/2014	5/17/2014	MJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B	5/16/2014	5/17/2014	MJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B	5/16/2014	5/17/2014	MJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B	5/16/2014	5/17/2014	MJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B	5/16/2014	5/17/2014	MJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B	5/16/2014	5/17/2014	MJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B	5/16/2014	5/17/2014	MJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B	5/16/2014	5/17/2014	MJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B	5/16/2014	5/17/2014	MJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B	5/16/2014	5/17/2014	MJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B	5/16/2014	5/17/2014	MJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B	5/16/2014	5/17/2014	MJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B	5/16/2014	5/17/2014	MJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B	5/16/2014	5/17/2014	MJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B	5/16/2014	5/17/2014	MJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B	5/16/2014	5/17/2014	MJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B	5/16/2014	5/17/2014	MJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B	5/16/2014	5/17/2014	MJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B	5/16/2014	5/17/2014	MJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B	5/16/2014	5/17/2014	MJR	1
Ethylbenzene	100	ug/kg	10	33	1	8260B	5/16/2014	5/17/2014	MJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B	5/16/2014	5/17/2014	MJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B	5/16/2014	5/17/2014	MJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B	5/16/2014	5/17/2014	MJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B	5/16/2014	5/17/2014	MJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B	5/16/2014	5/17/2014	MJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B	5/16/2014	5/17/2014	MJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B	5/16/2014	5/17/2014	MJR	1
Tetrachloroethene	1230	ug/kg	49	157	1	8260B	5/16/2014	5/17/2014	MJR	1
Toluene	35 "J"	ug/kg	20	65	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B	5/16/2014	5/17/2014	MJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B	5/16/2014	5/17/2014	MJR	1
Trichloroethene (TCE)	460	ug/kg	28	88	1	8260B	5/16/2014	5/17/2014	MJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B	5/16/2014	5/17/2014	MJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B	5/16/2014	5/17/2014	MJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B	5/16/2014	5/17/2014	MJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B	5/16/2014	5/17/2014	MJR	1
m&p-Xylene	259	ug/kg	68	216	1	8260B	5/16/2014	5/17/2014	MJR	1
o-Xylene	194	ug/kg	31	98	1	8260B	5/16/2014	5/17/2014	MJR	1



**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26978

**Lab Code** 5026978C  
**Sample ID** B-25 (10-12)  
**Sample Matrix** Soil  
**Sample Date** 5/12/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	94	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - 1,2-Dichloroethane-d4	94	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - 4-Bromofluorobenzene	97	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1
SUR - Dibromofluoromethane	91	Rec %			1	8260B	5/16/2014	5/17/2014	MJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26978

Lab Code 5026978D  
 Sample ID B-25 (0-2)  
 Sample Matrix Soil  
 Sample Date 5/12/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88	%			1	5021		5/14/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B	5/22/2014	5/22/2014	MJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B	5/22/2014	5/22/2014	MJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B	5/22/2014	5/22/2014	MJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B	5/22/2014	5/22/2014	MJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B	5/22/2014	5/22/2014	MJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B	5/22/2014	5/22/2014	MJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B	5/22/2014	5/22/2014	MJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B	5/22/2014	5/22/2014	MJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B	5/22/2014	5/22/2014	MJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B	5/22/2014	5/22/2014	MJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B	5/22/2014	5/22/2014	MJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B	5/22/2014	5/22/2014	MJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B	5/22/2014	5/22/2014	MJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B	5/22/2014	5/22/2014	MJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B	5/22/2014	5/22/2014	MJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B	5/22/2014	5/22/2014	MJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B	5/22/2014	5/22/2014	MJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B	5/22/2014	5/22/2014	MJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B	5/22/2014	5/22/2014	MJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B	5/22/2014	5/22/2014	MJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B	5/22/2014	5/22/2014	MJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B	5/22/2014	5/22/2014	MJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B	5/22/2014	5/22/2014	MJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B	5/22/2014	5/22/2014	MJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B	5/22/2014	5/22/2014	MJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B	5/22/2014	5/22/2014	MJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B	5/22/2014	5/22/2014	MJR	8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B	5/22/2014	5/22/2014	MJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B	5/22/2014	5/22/2014	MJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B	5/22/2014	5/22/2014	MJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B	5/22/2014	5/22/2014	MJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B	5/22/2014	5/22/2014	MJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B	5/22/2014	5/22/2014	MJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B	5/22/2014	5/22/2014	MJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B	5/22/2014	5/22/2014	MJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B	5/22/2014	5/22/2014	MJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B	5/22/2014	5/22/2014	MJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B	5/22/2014	5/22/2014	MJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B	5/22/2014	5/22/2014	MJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B	5/22/2014	5/22/2014	MJR	1
Tetrachloroethene	1830	ug/kg	49	157	1	8260B	5/22/2014	5/22/2014	MJR	1
Toluene	< 20	ug/kg	20	65	1	8260B	5/22/2014	5/22/2014	MJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B	5/22/2014	5/22/2014	MJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B	5/22/2014	5/22/2014	MJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B	5/22/2014	5/22/2014	MJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B	5/22/2014	5/22/2014	MJR	1
Trichloroethene (TCE)	370	ug/kg	28	88	1	8260B	5/22/2014	5/22/2014	MJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B	5/22/2014	5/22/2014	MJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B	5/22/2014	5/22/2014	MJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B	5/22/2014	5/22/2014	MJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B	5/22/2014	5/22/2014	MJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B	5/22/2014	5/22/2014	MJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B	5/22/2014	5/22/2014	MJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26978

**Lab Code** 5026978D  
**Sample ID** B-25 (0-2)  
**Sample Matrix** Soil  
**Sample Date** 5/12/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	101	Rec %			1	8260B	5/22/2014	5/22/2014	MJR	1
SUR - 1,2-Dichloroethane-d4	97	Rec %			1	8260B	5/22/2014	5/22/2014	MJR	1
SUR - 4-Bromofluorobenzene	99	Rec %			1	8260B	5/22/2014	5/22/2014	MJR	1
SUR - Dibromofluoromethane	103	Rec %			1	8260B	5/22/2014	5/22/2014	MJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

***Code***      ***Comment***

- 1      Laboratory QC within limits.
- 8      Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**



## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No.: Sigma Quote No.: \_\_\_\_\_  
Project #: 14411  
Sampler: (signature) De Schut

Project (Name / Location): WFB Landfill / Milwaukee, WI  
Reports To: Mafizul Islam Invoice To: SAME  
Company: Sigma Company: \_\_\_\_\_  
Address: 1300 W Canal Street Address: \_\_\_\_\_  
City State Zip: Milwaukee, WI 53233 City State Zip: \_\_\_\_\_  
Phone: 414-643-4200 Phone: \_\_\_\_\_  
FAX: 414-643-4210 FAX: \_\_\_\_\_

Analysis Requested											Other Analysis			
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID	
											X		24.7	
													36.4	
													5000+	
													11.1	

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
5026978A	B-23 (12-14)	5/12/14	2:50		X	N	2	SOIL	1 meth
B	B-24 (12-14)								
C	B-25 (10-12)								
D	B-25 (0-2)								

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: Rush  
Temp. of Temp. Blank \_\_\_\_\_ °C On Ice   
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) De Schut Time 12:00 Date 5/13/14  
Received By: (sign) \_\_\_\_\_ Time \_\_\_\_\_ Date \_\_\_\_\_  
Received in Laboratory By: Christina P... Time: 8:00 Date: 5-14-13

# Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

MAFIZUL ISLAM  
THE SIGMA GROUP, INC.  
1300 W. CANAL STREET  
MILWAUKEE, WI 53233

Report Date 21-May-14

Project Name WFB LANDFILL Invoice # E26897  
Project # 14411  
Lab Code 5026897A  
Sample ID B-12 14-16  
Sample Matrix Soil  
Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.4	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	6400	ug/kg	24	77	1	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	11.3 "J"	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
Project # 14411

Invoice # E26897

Lab Code 5026897A  
Sample ID B-12 14-16  
Sample Matrix Soil  
Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	13700	ug/kg	100	330	10	8260B		5/8/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	190	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	55 "J"	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	660	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Toluene	157	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	175	ug/kg	28	88	1	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	166	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	57 "J"	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	124	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	19300	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	157	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	94	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	104	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	99	Rec %			1	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897B  
 Sample ID B-13 0-2  
 Sample Matrix Soil  
 Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.9	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897B  
**Sample ID** B-13 0-2  
**Sample Matrix** Soil  
**Sample Date** 4/24/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	102	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	93	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	97	Rec %			1	8260B		5/7/2014	CJR	1



Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897C  
 Sample ID B-13 14-16  
 Sample Matrix Soil  
 Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.2	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	570	ug/kg	24	77	1	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	790	ug/kg	10	33	1	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	3800	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	19000	ug/kg	280	880	10	8260B		5/8/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	28.9 "J"	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	2300	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897C  
**Sample ID** B-13 14-16  
**Sample Matrix** Soil  
**Sample Date** 4/24/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	97	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	96	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	95	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897D  
 Sample ID B-14 10-12  
 Sample Matrix Soil  
 Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.4	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	170	ug/kg	24	77	1	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	52	ug/kg	10	33	1	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	13100	ug/kg	490	1570	10	8260B		5/8/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	10700	ug/kg	280	880	10	8260B		5/8/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	1190	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897D  
**Sample ID** B-14 10-12  
**Sample Matrix** Soil  
**Sample Date** 4/24/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	107	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	102	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	100	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897E  
 Sample ID B-15 4-6  
 Sample Matrix Soil  
 Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.3	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897E  
**Sample ID** B-15 4-6  
**Sample Matrix** Soil  
**Sample Date** 4/24/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	95	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	99	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	100	Rec %			1	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897F  
 Sample ID B-16 4-6  
 Sample Matrix Soil  
 Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B	5/7/2014	5/7/2014	MJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B	5/7/2014	5/7/2014	MJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B	5/7/2014	5/7/2014	MJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B	5/7/2014	5/7/2014	MJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B	5/7/2014	5/7/2014	MJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B	5/7/2014	5/7/2014	MJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B	5/7/2014	5/7/2014	MJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B	5/7/2014	5/7/2014	MJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B	5/7/2014	5/7/2014	MJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B	5/7/2014	5/7/2014	MJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B	5/7/2014	5/7/2014	MJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B	5/7/2014	5/7/2014	MJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B	5/7/2014	5/7/2014	MJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B	5/7/2014	5/7/2014	MJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B	5/7/2014	5/7/2014	MJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B	5/7/2014	5/7/2014	MJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B	5/7/2014	5/7/2014	MJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B	5/7/2014	5/7/2014	MJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B	5/7/2014	5/7/2014	MJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B	5/7/2014	5/7/2014	MJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B	5/7/2014	5/7/2014	MJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B	5/7/2014	5/7/2014	MJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B	5/7/2014	5/7/2014	MJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B	5/7/2014	5/7/2014	MJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B	5/7/2014	5/7/2014	MJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B	5/7/2014	5/7/2014	MJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B	5/7/2014	5/7/2014	MJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B	5/7/2014	5/7/2014	MJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B	5/7/2014	5/7/2014	MJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B	5/7/2014	5/7/2014	MJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B	5/7/2014	5/7/2014	MJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B	5/7/2014	5/7/2014	MJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B	5/7/2014	5/7/2014	MJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B	5/7/2014	5/7/2014	MJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B	5/7/2014	5/7/2014	MJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B	5/7/2014	5/7/2014	MJR	1
Naphthalene	183 "J"	ug/kg	114	363	1	8260B	5/7/2014	5/7/2014	MJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B	5/7/2014	5/7/2014	MJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B	5/7/2014	5/7/2014	MJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B	5/7/2014	5/7/2014	MJR	1
Tetrachloroethene	65 "J"	ug/kg	49	157	1	8260B	5/7/2014	5/7/2014	MJR	1
Toluene	< 20	ug/kg	20	65	1	8260B	5/7/2014	5/7/2014	MJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B	5/7/2014	5/7/2014	MJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B	5/7/2014	5/7/2014	MJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B	5/7/2014	5/7/2014	MJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B	5/7/2014	5/7/2014	MJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B	5/7/2014	5/7/2014	MJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B	5/7/2014	5/7/2014	MJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B	5/7/2014	5/7/2014	MJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B	5/7/2014	5/7/2014	MJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B	5/7/2014	5/7/2014	MJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B	5/7/2014	5/7/2014	MJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B	5/7/2014	5/7/2014	MJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897F  
**Sample ID** B-16 4-6  
**Sample Matrix** Soil  
**Sample Date** 4/24/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B	5/7/2014	5/7/2014	MJR	1
SUR - 4-Bromofluorobenzene	103	Rec %			1	8260B	5/7/2014	5/7/2014	MJR	1
SUR - Dibromofluoromethane	101	Rec %			1	8260B	5/7/2014	5/7/2014	MJR	1
SUR - Toluene-d8	104	Rec %			1	8260B	5/7/2014	5/7/2014	MJR	1



Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897G  
 Sample ID B-17 10-12  
 Sample Matrix Soil  
 Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 92	ug/kg	92	290	10	8260B		5/7/2014	CJR	1
Bromobenzene	< 130	ug/kg	130	400	10	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 270	ug/kg	270	850	10	8260B		5/7/2014	CJR	1
Bromoform	< 300	ug/kg	300	950	10	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 200	ug/kg	200	640	10	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 410	ug/kg	410	1320	10	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 260	ug/kg	260	820	10	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 250	ug/kg	250	790	10	8260B		5/7/2014	CJR	1
Chlorobenzene	< 160	ug/kg	160	520	10	8260B		5/7/2014	CJR	1
Chloroethane	< 420	ug/kg	420	1330	10	8260B		5/7/2014	CJR	1
Chloroform	< 490	ug/kg	490	1570	10	8260B		5/7/2014	CJR	1
Chloromethane	< 1810	ug/kg	1810	5770	10	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 160	ug/kg	160	520	10	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 140	ug/kg	140	430	10	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 480	ug/kg	480	1540	10	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 140	ug/kg	140	450	10	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 330	ug/kg	330	1030	10	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 300	ug/kg	300	950	10	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 380	ug/kg	380	1220	10	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 570	ug/kg	570	1820	10	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 360	ug/kg	360	1140	10	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 190	ug/kg	190	600	10	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 210	ug/kg	210	660	10	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	< 240	ug/kg	240	770	10	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 290	ug/kg	290	930	10	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 95	ug/kg	95	300	10	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 460	ug/kg	460	1480	10	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 210	ug/kg	210	680	10	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 110	ug/kg	110	340	10	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 200	ug/kg	200	640	10	8260B		5/7/2014	CJR	1
Ethylbenzene	9000	ug/kg	100	330	10	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 950	ug/kg	950	3040	10	8260B		5/7/2014	CJR	1
Isopropylbenzene	1080	ug/kg	250	800	10	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 310	ug/kg	310	980	10	8260B		5/7/2014	CJR	1
Methylene chloride	< 570	ug/kg	570	1820	10	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 300	ug/kg	300	960	10	8260B		5/7/2014	CJR	2 7
Naphthalene	< 1140	ug/kg	1140	3630	10	8260B		5/7/2014	CJR	1
n-Propylbenzene	1310	ug/kg	240	750	10	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 120	ug/kg	120	380	10	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 230	ug/kg	230	740	10	8260B		5/7/2014	CJR	1
Tetrachloroethene	< 490	ug/kg	490	1570	10	8260B		5/7/2014	CJR	1
Toluene	< 200	ug/kg	200	650	10	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 790	ug/kg	790	2510	10	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 1290	ug/kg	1290	4110	10	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 380	ug/kg	380	1200	10	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 230	ug/kg	230	740	10	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	< 280	ug/kg	280	880	10	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 860	ug/kg	860	2730	10	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	7400	ug/kg	260	810	10	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	2540	ug/kg	260	840	10	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 210	ug/kg	210	660	10	8260B		5/7/2014	CJR	1
m&p-Xylene	24100	ug/kg	680	2160	10	8260B		5/7/2014	CJR	1
o-Xylene	6300	ug/kg	310	980	10	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897G  
**Sample ID** B-17 10-12  
**Sample Matrix** Soil  
**Sample Date** 4/24/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	99	Rec %			10	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	98	Rec %			10	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	88	Rec %			10	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	101	Rec %			10	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897H  
 Sample ID B-17 14-16  
 Sample Matrix Soil  
 Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.6	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 920	ug/kg	920	2900	100	8260B		5/8/2014	CJR	1
Bromobenzene	< 1300	ug/kg	1300	4000	100	8260B		5/8/2014	CJR	1
Bromodichloromethane	< 2700	ug/kg	2700	8500	100	8260B		5/8/2014	CJR	1
Bromoform	< 3000	ug/kg	3000	9500	100	8260B		5/8/2014	CJR	1
tert-Butylbenzene	< 2000	ug/kg	2000	6400	100	8260B		5/8/2014	CJR	1
sec-Butylbenzene	< 4100	ug/kg	4100	13200	100	8260B		5/8/2014	CJR	1
n-Butylbenzene	< 2600	ug/kg	2600	8200	100	8260B		5/8/2014	CJR	1
Carbon Tetrachloride	< 2500	ug/kg	2500	7900	100	8260B		5/8/2014	CJR	1
Chlorobenzene	< 1600	ug/kg	1600	5200	100	8260B		5/8/2014	CJR	1
Chloroethane	< 4200	ug/kg	4200	13300	100	8260B		5/8/2014	CJR	1
Chloroform	< 4900	ug/kg	4900	15700	100	8260B		5/8/2014	CJR	1
Chloromethane	< 18100	ug/kg	18100	57700	100	8260B		5/8/2014	CJR	1
2-Chlorotoluene	< 1600	ug/kg	1600	5200	100	8260B		5/8/2014	CJR	1
4-Chlorotoluene	< 1400	ug/kg	1400	4300	100	8260B		5/8/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 4800	ug/kg	4800	15400	100	8260B		5/8/2014	CJR	2
Dibromochloromethane	< 1400	ug/kg	1400	4500	100	8260B		5/8/2014	CJR	1
1,4-Dichlorobenzene	< 3300	ug/kg	3300	10300	100	8260B		5/8/2014	CJR	1
1,3-Dichlorobenzene	< 3000	ug/kg	3000	9500	100	8260B		5/8/2014	CJR	1
1,2-Dichlorobenzene	< 3800	ug/kg	3800	12200	100	8260B		5/8/2014	CJR	1
Dichlorodifluoromethane	< 5700	ug/kg	5700	18200	100	8260B		5/8/2014	CJR	1
1,2-Dichloroethane	< 3600	ug/kg	3600	11400	100	8260B		5/8/2014	CJR	1
1,1-Dichloroethane	< 1900	ug/kg	1900	6000	100	8260B		5/8/2014	CJR	1
1,1-Dichloroethene	< 2100	ug/kg	2100	6600	100	8260B		5/8/2014	CJR	1
cis-1,2-Dichloroethene	34000	ug/kg	2400	7700	100	8260B		5/8/2014	CJR	1
trans-1,2-Dichloroethene	< 2900	ug/kg	2900	9300	100	8260B		5/8/2014	CJR	1
1,2-Dichloropropane	< 950	ug/kg	950	3000	100	8260B		5/8/2014	CJR	1
2,2-Dichloropropane	< 4600	ug/kg	4600	14800	100	8260B		5/8/2014	CJR	2 7 8
1,3-Dichloropropane	< 2100	ug/kg	2100	6800	100	8260B		5/8/2014	CJR	1
Di-isopropyl ether	< 1100	ug/kg	1100	3400	100	8260B		5/8/2014	CJR	1
EDB (1,2-Dibromoethane)	< 2000	ug/kg	2000	6400	100	8260B		5/8/2014	CJR	1
Ethylbenzene	450000	ug/kg	1000	3300	100	8260B		5/8/2014	CJR	1
Hexachlorobutadiene	< 9500	ug/kg	9500	30400	100	8260B		5/8/2014	CJR	1
Isopropylbenzene	15700	ug/kg	2500	8000	100	8260B		5/8/2014	CJR	1
p-Isopropyltoluene	< 3100	ug/kg	3100	9800	100	8260B		5/8/2014	CJR	1
Methylene chloride	< 5700	ug/kg	5700	18200	100	8260B		5/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 3000	ug/kg	3000	9600	100	8260B		5/8/2014	CJR	2 7
Naphthalene	< 11400	ug/kg	11400	36300	100	8260B		5/8/2014	CJR	1
n-Propylbenzene	14300	ug/kg	2400	7500	100	8260B		5/8/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 1200	ug/kg	1200	3800	100	8260B		5/8/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 2300	ug/kg	2300	7400	100	8260B		5/8/2014	CJR	1
Tetrachloroethene	490000	ug/kg	4900	15700	100	8260B		5/8/2014	CJR	1
Toluene	52000	ug/kg	2000	6500	100	8260B		5/8/2014	CJR	1
1,2,4-Trichlorobenzene	< 7900	ug/kg	7900	25100	100	8260B		5/8/2014	CJR	1
1,2,3-Trichlorobenzene	< 12900	ug/kg	12900	41100	100	8260B		5/8/2014	CJR	1
1,1,1-Trichloroethane	< 3800	ug/kg	3800	12000	100	8260B		5/8/2014	CJR	1
1,1,2-Trichloroethane	< 2300	ug/kg	2300	7400	100	8260B		5/8/2014	CJR	1
Trichloroethene (TCE)	40000	ug/kg	2800	8800	100	8260B		5/8/2014	CJR	1
Trichlorofluoromethane	< 8600	ug/kg	8600	27300	100	8260B		5/8/2014	CJR	1
1,2,4-Trimethylbenzene	51000	ug/kg	2600	8100	100	8260B		5/8/2014	CJR	1
1,3,5-Trimethylbenzene	20900	ug/kg	2600	8400	100	8260B		5/8/2014	CJR	1
Vinyl Chloride	< 2100	ug/kg	2100	6600	100	8260B		5/8/2014	CJR	1
m&p-Xylene	1510000	ug/kg	6800	21600	100	8260B		5/8/2014	CJR	1
o-Xylene	540000	ug/kg	3100	9800	100	8260B		5/8/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897H  
**Sample ID** B-17 14-16  
**Sample Matrix** Soil  
**Sample Date** 4/24/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	93	Rec %			100	8260B		5/8/2014	CJR	1
SUR - Toluene-d8	102	Rec %			100	8260B		5/8/2014	CJR	1
SUR - Dibromofluoromethane	93	Rec %			100	8260B		5/8/2014	CJR	1
SUR - 4-Bromofluorobenzene	97	Rec %			100	8260B		5/8/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897I  
 Sample ID B-17 22-24  
 Sample Matrix Soil  
 Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.4	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 92	ug/kg	92	290	10	8260B		5/8/2014	CJR	1
Bromobenzene	< 130	ug/kg	130	400	10	8260B		5/8/2014	CJR	1
Bromodichloromethane	< 270	ug/kg	270	850	10	8260B		5/8/2014	CJR	1
Bromoform	< 300	ug/kg	300	950	10	8260B		5/8/2014	CJR	1
tert-Butylbenzene	< 200	ug/kg	200	640	10	8260B		5/8/2014	CJR	1
sec-Butylbenzene	< 410	ug/kg	410	1320	10	8260B		5/8/2014	CJR	1
n-Butylbenzene	< 260	ug/kg	260	820	10	8260B		5/8/2014	CJR	1
Carbon Tetrachloride	< 250	ug/kg	250	790	10	8260B		5/8/2014	CJR	1
Chlorobenzene	< 160	ug/kg	160	520	10	8260B		5/8/2014	CJR	1
Chloroethane	< 420	ug/kg	420	1330	10	8260B		5/8/2014	CJR	1
Chloroform	< 490	ug/kg	490	1570	10	8260B		5/8/2014	CJR	1
Chloromethane	< 1810	ug/kg	1810	5770	10	8260B		5/8/2014	CJR	1
2-Chlorotoluene	< 160	ug/kg	160	520	10	8260B		5/8/2014	CJR	1
4-Chlorotoluene	< 140	ug/kg	140	430	10	8260B		5/8/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 480	ug/kg	480	1540	10	8260B		5/8/2014	CJR	2
Dibromochloromethane	< 140	ug/kg	140	450	10	8260B		5/8/2014	CJR	1
1,4-Dichlorobenzene	< 330	ug/kg	330	1030	10	8260B		5/8/2014	CJR	1
1,3-Dichlorobenzene	< 300	ug/kg	300	950	10	8260B		5/8/2014	CJR	1
1,2-Dichlorobenzene	< 380	ug/kg	380	1220	10	8260B		5/8/2014	CJR	1
Dichlorodifluoromethane	< 570	ug/kg	570	1820	10	8260B		5/8/2014	CJR	1
1,2-Dichloroethane	< 360	ug/kg	360	1140	10	8260B		5/8/2014	CJR	1
1,1-Dichloroethane	< 190	ug/kg	190	600	10	8260B		5/8/2014	CJR	1
1,1-Dichloroethene	< 210	ug/kg	210	660	10	8260B		5/8/2014	CJR	1
cis-1,2-Dichloroethene	46000	ug/kg	240	770	10	8260B		5/8/2014	CJR	1
trans-1,2-Dichloroethene	< 290	ug/kg	290	930	10	8260B		5/8/2014	CJR	1
1,2-Dichloropropane	< 95	ug/kg	95	300	10	8260B		5/8/2014	CJR	1
2,2-Dichloropropane	< 460	ug/kg	460	1480	10	8260B		5/8/2014	CJR	2 7 8
1,3-Dichloropropane	< 210	ug/kg	210	680	10	8260B		5/8/2014	CJR	1
Di-isopropyl ether	< 110	ug/kg	110	340	10	8260B		5/8/2014	CJR	1
EDB (1,2-Dibromoethane)	< 200	ug/kg	200	640	10	8260B		5/8/2014	CJR	1
Ethylbenzene	29100	ug/kg	100	330	10	8260B		5/8/2014	CJR	1
Hexachlorobutadiene	< 950	ug/kg	950	3040	10	8260B		5/8/2014	CJR	1
Isopropylbenzene	940	ug/kg	250	800	10	8260B		5/8/2014	CJR	1
p-Isopropyltoluene	< 310	ug/kg	310	980	10	8260B		5/8/2014	CJR	1
Methylene chloride	< 570	ug/kg	570	1820	10	8260B		5/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 300	ug/kg	300	960	10	8260B		5/8/2014	CJR	2 7
Naphthalene	< 1140	ug/kg	1140	3630	10	8260B		5/8/2014	CJR	1
n-Propylbenzene	1000	ug/kg	240	750	10	8260B		5/8/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 120	ug/kg	120	380	10	8260B		5/8/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 230	ug/kg	230	740	10	8260B		5/8/2014	CJR	1
Tetrachloroethene	< 490	ug/kg	490	1570	10	8260B		5/8/2014	CJR	1
Toluene	20900	ug/kg	200	650	10	8260B		5/8/2014	CJR	1
1,2,4-Trichlorobenzene	< 790	ug/kg	790	2510	10	8260B		5/8/2014	CJR	1
1,2,3-Trichlorobenzene	< 1290	ug/kg	1290	4110	10	8260B		5/8/2014	CJR	1
1,1,1-Trichloroethane	< 380	ug/kg	380	1200	10	8260B		5/8/2014	CJR	1
1,1,2-Trichloroethane	< 230	ug/kg	230	740	10	8260B		5/8/2014	CJR	1
Trichloroethene (TCE)	< 280	ug/kg	280	880	10	8260B		5/8/2014	CJR	1
Trichlorofluoromethane	< 860	ug/kg	860	2730	10	8260B		5/8/2014	CJR	1
1,2,4-Trimethylbenzene	3600	ug/kg	260	810	10	8260B		5/8/2014	CJR	1
1,3,5-Trimethylbenzene	1290	ug/kg	260	840	10	8260B		5/8/2014	CJR	1
Vinyl Chloride	680	ug/kg	210	660	10	8260B		5/8/2014	CJR	1
m&p-Xylene	87000	ug/kg	680	2160	10	8260B		5/8/2014	CJR	1
o-Xylene	20300	ug/kg	310	980	10	8260B		5/8/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897I  
**Sample ID** B-17 22-24  
**Sample Matrix** Soil  
**Sample Date** 4/24/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	109	Rec %			10	8260B		5/8/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	102	Rec %			10	8260B		5/8/2014	CJR	1
SUR - 4-Bromofluorobenzene	103	Rec %			10	8260B		5/8/2014	CJR	1
SUR - Dibromofluoromethane	100	Rec %			10	8260B		5/8/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897J  
 Sample ID B-18 14-16  
 Sample Matrix Soil  
 Sample Date 4/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.5	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	5000	ug/kg	24	77	1	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	38 "J"	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	450	ug/kg	10	33	1	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	116	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	252	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	201000	ug/kg	4900	15700	100	8260B		5/8/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	16500	ug/kg	2800	8800	100	8260B		5/8/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	730	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	500	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	420	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	630	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	314	ug/kg	31	98	1	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897J  
**Sample ID** B-18 14-16  
**Sample Matrix** Soil  
**Sample Date** 4/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	103	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	97	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	92	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	110	Rec %			1	8260B		5/7/2014	CJR	1



Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897K  
 Sample ID B-19 6-8  
 Sample Matrix Soil  
 Sample Date 4/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	77.6	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 920	ug/kg	920	2900	100	8260B		5/7/2014	CJR	1
Bromobenzene	< 1300	ug/kg	1300	4000	100	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 2700	ug/kg	2700	8500	100	8260B		5/7/2014	CJR	1
Bromoform	< 3000	ug/kg	3000	9500	100	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 2000	ug/kg	2000	6400	100	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 4100	ug/kg	4100	13200	100	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 2600	ug/kg	2600	8200	100	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 2500	ug/kg	2500	7900	100	8260B		5/7/2014	CJR	1
Chlorobenzene	< 1600	ug/kg	1600	5200	100	8260B		5/7/2014	CJR	1
Chloroethane	< 4200	ug/kg	4200	13300	100	8260B		5/7/2014	CJR	1
Chloroform	< 4900	ug/kg	4900	15700	100	8260B		5/7/2014	CJR	1
Chloromethane	< 18100	ug/kg	18100	57700	100	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 1600	ug/kg	1600	5200	100	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 1400	ug/kg	1400	4300	100	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 4800	ug/kg	4800	15400	100	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 1400	ug/kg	1400	4500	100	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 3300	ug/kg	3300	10300	100	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 3000	ug/kg	3000	9500	100	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 3800	ug/kg	3800	12200	100	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 5700	ug/kg	5700	18200	100	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 3600	ug/kg	3600	11400	100	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 1900	ug/kg	1900	6000	100	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 2100	ug/kg	2100	6600	100	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	199000	ug/kg	2400	7700	100	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 2900	ug/kg	2900	9300	100	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 950	ug/kg	950	3000	100	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 4600	ug/kg	4600	14800	100	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 2100	ug/kg	2100	6800	100	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 1100	ug/kg	1100	3400	100	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 2000	ug/kg	2000	6400	100	8260B		5/7/2014	CJR	1
Ethylbenzene	39000	ug/kg	1000	3300	100	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 9500	ug/kg	9500	30400	100	8260B		5/7/2014	CJR	1
Isopropylbenzene	< 2500	ug/kg	2500	8000	100	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 3100	ug/kg	3100	9800	100	8260B		5/7/2014	CJR	1
Methylene chloride	< 5700	ug/kg	5700	18200	100	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 3000	ug/kg	3000	9600	100	8260B		5/7/2014	CJR	2 7
Naphthalene	< 11400	ug/kg	11400	36300	100	8260B		5/7/2014	CJR	1
n-Propylbenzene	4400 "J"	ug/kg	2400	7500	100	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 1200	ug/kg	1200	3800	100	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 2300	ug/kg	2300	7400	100	8260B		5/7/2014	CJR	1
Tetrachloroethene	320000	ug/kg	4900	15700	100	8260B		5/7/2014	CJR	1
Toluene	57000	ug/kg	2000	6500	100	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 7900	ug/kg	7900	25100	100	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 12900	ug/kg	12900	41100	100	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 3800	ug/kg	3800	12000	100	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 2300	ug/kg	2300	7400	100	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	286000	ug/kg	2800	8800	100	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 8600	ug/kg	8600	27300	100	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	14600	ug/kg	2600	8100	100	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	3600 "J"	ug/kg	2600	8400	100	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 2100	ug/kg	2100	6600	100	8260B		5/7/2014	CJR	1
m&p-Xylene	126000	ug/kg	6800	21600	100	8260B		5/7/2014	CJR	1
o-Xylene	58000	ug/kg	3100	9800	100	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897K  
**Sample ID** B-19 6-8  
**Sample Matrix** Soil  
**Sample Date** 4/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	100	Rec %			100	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	108	Rec %			100	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	103	Rec %			100	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	100	Rec %			100	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897L  
 Sample ID B-19 12-14  
 Sample Matrix Soil  
 Sample Date 4/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.4	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 920	ug/kg	920	2900	100	8260B		5/7/2014	CJR	1
Bromobenzene	< 1300	ug/kg	1300	4000	100	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 2700	ug/kg	2700	8500	100	8260B		5/7/2014	CJR	1
Bromoform	< 3000	ug/kg	3000	9500	100	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 2000	ug/kg	2000	6400	100	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 4100	ug/kg	4100	13200	100	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 2600	ug/kg	2600	8200	100	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 2500	ug/kg	2500	7900	100	8260B		5/7/2014	CJR	1
Chlorobenzene	< 1600	ug/kg	1600	5200	100	8260B		5/7/2014	CJR	1
Chloroethane	< 4200	ug/kg	4200	13300	100	8260B		5/7/2014	CJR	1
Chloroform	< 4900	ug/kg	4900	15700	100	8260B		5/7/2014	CJR	1
Chloromethane	< 18100	ug/kg	18100	57700	100	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 1600	ug/kg	1600	5200	100	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 1400	ug/kg	1400	4300	100	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 4800	ug/kg	4800	15400	100	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 1400	ug/kg	1400	4500	100	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 3300	ug/kg	3300	10300	100	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 3000	ug/kg	3000	9500	100	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 3800	ug/kg	3800	12200	100	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 5700	ug/kg	5700	18200	100	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 3600	ug/kg	3600	11400	100	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 1900	ug/kg	1900	6000	100	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 2100	ug/kg	2100	6600	100	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	79000	ug/kg	2400	7700	100	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 2900	ug/kg	2900	9300	100	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 950	ug/kg	950	3000	100	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 4600	ug/kg	4600	14800	100	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 2100	ug/kg	2100	6800	100	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 1100	ug/kg	1100	3400	100	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 2000	ug/kg	2000	6400	100	8260B		5/7/2014	CJR	1
Ethylbenzene	2570 "J"	ug/kg	1000	3300	100	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 9500	ug/kg	9500	30400	100	8260B		5/7/2014	CJR	1
Isopropylbenzene	< 2500	ug/kg	2500	8000	100	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 3100	ug/kg	3100	9800	100	8260B		5/7/2014	CJR	1
Methylene chloride	< 5700	ug/kg	5700	18200	100	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 3000	ug/kg	3000	9600	100	8260B		5/7/2014	CJR	2 7
Naphthalene	< 11400	ug/kg	11400	36300	100	8260B		5/7/2014	CJR	1
n-Propylbenzene	< 2400	ug/kg	2400	7500	100	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 1200	ug/kg	1200	3800	100	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 2300	ug/kg	2300	7400	100	8260B		5/7/2014	CJR	1
Tetrachloroethene	< 4900	ug/kg	4900	15700	100	8260B		5/7/2014	CJR	1
Toluene	5200 "J"	ug/kg	2000	6500	100	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 7900	ug/kg	7900	25100	100	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 12900	ug/kg	12900	41100	100	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 3800	ug/kg	3800	12000	100	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 2300	ug/kg	2300	7400	100	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	< 2800	ug/kg	2800	8800	100	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 8600	ug/kg	8600	27300	100	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 2600	ug/kg	2600	8100	100	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 2600	ug/kg	2600	8400	100	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 2100	ug/kg	2100	6600	100	8260B		5/7/2014	CJR	1
m&p-Xylene	10200 "J"	ug/kg	6800	21600	100	8260B		5/7/2014	CJR	1
o-Xylene	6400 "J"	ug/kg	3100	9800	100	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897L  
**Sample ID** B-19 12-14  
**Sample Matrix** Soil  
**Sample Date** 4/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	106	Rec %			100	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			100	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	105	Rec %			100	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	98	Rec %			100	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897M  
 Sample ID B-19 14-16  
 Sample Matrix Soil  
 Sample Date 4/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.2	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 92	ug/kg	92	290	10	8260B		5/8/2014	CJR	1
Bromobenzene	< 130	ug/kg	130	400	10	8260B		5/8/2014	CJR	1
Bromodichloromethane	< 270	ug/kg	270	850	10	8260B		5/8/2014	CJR	1
Bromoform	< 300	ug/kg	300	950	10	8260B		5/8/2014	CJR	1
tert-Butylbenzene	< 200	ug/kg	200	640	10	8260B		5/8/2014	CJR	1
sec-Butylbenzene	< 410	ug/kg	410	1320	10	8260B		5/8/2014	CJR	1
n-Butylbenzene	< 260	ug/kg	260	820	10	8260B		5/8/2014	CJR	1
Carbon Tetrachloride	< 250	ug/kg	250	790	10	8260B		5/8/2014	CJR	1
Chlorobenzene	< 160	ug/kg	160	520	10	8260B		5/8/2014	CJR	1
Chloroethane	< 420	ug/kg	420	1330	10	8260B		5/8/2014	CJR	1
Chloroform	< 490	ug/kg	490	1570	10	8260B		5/8/2014	CJR	1
Chloromethane	< 1810	ug/kg	1810	5770	10	8260B		5/8/2014	CJR	1
2-Chlorotoluene	< 160	ug/kg	160	520	10	8260B		5/8/2014	CJR	1
4-Chlorotoluene	< 140	ug/kg	140	430	10	8260B		5/8/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 480	ug/kg	480	1540	10	8260B		5/8/2014	CJR	2
Dibromochloromethane	< 140	ug/kg	140	450	10	8260B		5/8/2014	CJR	1
1,4-Dichlorobenzene	< 330	ug/kg	330	1030	10	8260B		5/8/2014	CJR	1
1,3-Dichlorobenzene	< 300	ug/kg	300	950	10	8260B		5/8/2014	CJR	1
1,2-Dichlorobenzene	< 380	ug/kg	380	1220	10	8260B		5/8/2014	CJR	1
Dichlorodifluoromethane	< 570	ug/kg	570	1820	10	8260B		5/8/2014	CJR	1
1,2-Dichloroethane	< 360	ug/kg	360	1140	10	8260B		5/8/2014	CJR	1
1,1-Dichloroethane	< 190	ug/kg	190	600	10	8260B		5/8/2014	CJR	1
1,1-Dichloroethene	< 210	ug/kg	210	660	10	8260B		5/8/2014	CJR	1
cis-1,2-Dichloroethene	80000	ug/kg	240	770	10	8260B		5/8/2014	CJR	1
trans-1,2-Dichloroethene	380 "J"	ug/kg	290	930	10	8260B		5/8/2014	CJR	1
1,2-Dichloropropane	< 95	ug/kg	95	300	10	8260B		5/8/2014	CJR	1
2,2-Dichloropropane	< 460	ug/kg	460	1480	10	8260B		5/8/2014	CJR	2 7 8
1,3-Dichloropropane	< 210	ug/kg	210	680	10	8260B		5/8/2014	CJR	1
Di-isopropyl ether	< 110	ug/kg	110	340	10	8260B		5/8/2014	CJR	1
EDB (1,2-Dibromoethane)	< 200	ug/kg	200	640	10	8260B		5/8/2014	CJR	1
Ethylbenzene	3400	ug/kg	100	330	10	8260B		5/8/2014	CJR	1
Hexachlorobutadiene	< 950	ug/kg	950	3040	10	8260B		5/8/2014	CJR	1
Isopropylbenzene	< 250	ug/kg	250	800	10	8260B		5/8/2014	CJR	1
p-Isopropyltoluene	< 310	ug/kg	310	980	10	8260B		5/8/2014	CJR	1
Methylene chloride	< 570	ug/kg	570	1820	10	8260B		5/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 300	ug/kg	300	960	10	8260B		5/8/2014	CJR	2 7
Naphthalene	< 1140	ug/kg	1140	3630	10	8260B		5/8/2014	CJR	1
n-Propylbenzene	< 240	ug/kg	240	750	10	8260B		5/8/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 120	ug/kg	120	380	10	8260B		5/8/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 230	ug/kg	230	740	10	8260B		5/8/2014	CJR	1
Tetrachloroethene	< 490	ug/kg	490	1570	10	8260B		5/8/2014	CJR	1
Toluene	4200	ug/kg	200	650	10	8260B		5/8/2014	CJR	1
1,2,4-Trichlorobenzene	< 790	ug/kg	790	2510	10	8260B		5/8/2014	CJR	1
1,2,3-Trichlorobenzene	< 1290	ug/kg	1290	4110	10	8260B		5/8/2014	CJR	1
1,1,1-Trichloroethane	< 380	ug/kg	380	1200	10	8260B		5/8/2014	CJR	1
1,1,2-Trichloroethane	< 230	ug/kg	230	740	10	8260B		5/8/2014	CJR	1
Trichloroethene (TCE)	< 280	ug/kg	280	880	10	8260B		5/8/2014	CJR	1
Trichlorofluoromethane	< 860	ug/kg	860	2730	10	8260B		5/8/2014	CJR	1
1,2,4-Trimethylbenzene	420 "J"	ug/kg	260	810	10	8260B		5/8/2014	CJR	1
1,3,5-Trimethylbenzene	< 260	ug/kg	260	840	10	8260B		5/8/2014	CJR	1
Vinyl Chloride	910	ug/kg	210	660	10	8260B		5/8/2014	CJR	1
m&p-Xylene	9800	ug/kg	680	2160	10	8260B		5/8/2014	CJR	1
o-Xylene	3500	ug/kg	310	980	10	8260B		5/8/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897M  
**Sample ID** B-19 14-16  
**Sample Matrix** Soil  
**Sample Date** 4/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	103	Rec %			10	8260B		5/8/2014	CJR	1
SUR - Toluene-d8	103	Rec %			10	8260B		5/8/2014	CJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			10	8260B		5/8/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	Rec %			10	8260B		5/8/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897N  
 Sample ID B-20 4-6  
 Sample Matrix Soil  
 Sample Date 4/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.4	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	189	ug/kg	24	77	1	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	114	ug/kg	10	33	1	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	1390	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Toluene	50 "J"	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	510	ug/kg	28	88	1	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	296	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	139	ug/kg	31	98	1	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 5026897N  
**Sample ID** B-20 4-6  
**Sample Matrix** Soil  
**Sample Date** 4/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	96	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	104	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	105	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	104	Rec %			1	8260B		5/7/2014	CJR	1



Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 50268970  
 Sample ID B-20 14-16  
 Sample Matrix Soil  
 Sample Date 4/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.2	%			1	5021		4/29/2014	RKM	1
Organic										
VOC's										
Benzene	11.9 "J"	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	17500	ug/kg	240	770	10	8260B		5/8/2014	CJR	1
trans-1,2-Dichloroethene	124	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	2360	ug/kg	10	33	1	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	285	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	154	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	63 "J"	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Toluene	420	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	144	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	90	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	2620	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	3500	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	940	ug/kg	31	98	1	8260B		5/7/2014	CJR	1

**Project Name** WFB LANDFILL  
**Project #** 14411

**Invoice #** E26897

**Lab Code** 50268970  
**Sample ID** B-20 14-16  
**Sample Matrix** Soil  
**Sample Date** 4/25/2014

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	108	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	99	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	103	Rec %			1	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897P  
 Sample ID MEOH BLANK  
 Sample Matrix Soil  
 Sample Date 4/24/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	99	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	103	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	98	Rec %			1	8260B		5/7/2014	CJR	1

Project Name WFB LANDFILL  
 Project # 14411

Invoice # E26897

Lab Code 5026897Q  
 Sample ID MEOH BLANK  
 Sample Matrix Soil  
 Sample Date 4/25/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		5/7/2014	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		5/7/2014	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		5/7/2014	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		5/7/2014	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		5/7/2014	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		5/7/2014	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		5/7/2014	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		5/7/2014	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		5/7/2014	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		5/7/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		5/7/2014	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		5/7/2014	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		5/7/2014	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		5/7/2014	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		5/7/2014	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		5/7/2014	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		5/7/2014	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		5/7/2014	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		5/7/2014	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		5/7/2014	CJR	2 7 8
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		5/7/2014	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		5/7/2014	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		5/7/2014	CJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		5/7/2014	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		5/7/2014	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		5/7/2014	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		5/7/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		5/7/2014	CJR	2 7
Naphthalene	< 114	ug/kg	114	363	1	8260B		5/7/2014	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		5/7/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		5/7/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		5/7/2014	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		5/7/2014	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		5/7/2014	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		5/7/2014	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		5/7/2014	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		5/7/2014	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		5/7/2014	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		5/7/2014	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		5/7/2014	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		5/7/2014	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		5/7/2014	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		5/7/2014	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		5/7/2014	CJR	1
SUR - Toluene-d8	102	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	113	Rec %			1	8260B		5/7/2014	CJR	1
SUR - 4-Bromofluorobenzene	99	Rec %			1	8260B		5/7/2014	CJR	1
SUR - Dibromofluoromethane	108	Rec %			1	8260B		5/7/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

***Code***      ***Comment***

- 1      Laboratory QC within limits.
- 2      Relative percent difference failed for laboratory spiked samples.
- 7      The LCS not within established limits.
- 8      Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**



A handwritten signature in blue ink, appearing to read "Michael J. Paul", is written over a horizontal line.





## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**

Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No.: Sigma Quote No.: \_\_\_\_\_  
Project #: 14411  
Sampler: (signature) DL Stewart

Project (Name / Location): WFB Landfill / Milwaukee, WI  
Reports To: Mafizul Islam Invoice To: SAME  
Company: Sigma Company: \_\_\_\_\_  
Address: 1300 W Canal Street Address: \_\_\_\_\_  
City State Zip: Milwaukee, WI 53233 City State Zip: \_\_\_\_\_  
Phone: 414-643-4200 Phone: \_\_\_\_\_  
FAX: 414-643-4210 FAX: \_\_\_\_\_

Analysis Requested										Other Analysis												
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID									

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
<u>5026828</u>	<u>k</u>	<u>B-8</u>	<u>(14-16)</u>	<u>4/11/14</u>	<u>10:45</u>	<u>X</u>	<u>N</u>	<u>2</u>	<u>Soil</u>	<u>1-meth</u>												<u>X</u>	<u>19</u>
	<u>L</u>	<u>B-7</u>	<u>(2-4)</u>	<u>4/11/14</u>	<u>9:30</u>																		<u>1.5</u>
	<u>M</u>	<u>B-7</u>	<u>(6-8)</u>	<u>4/11/14</u>	<u>9:30</u>																		<u>3.5</u>
	<u>N</u>	<u>B-6</u>	<u>(0-2)</u>	<u>4/11/14</u>	<u>8:30</u>																		<u>49</u>
	<u>O</u>	<u>B-6</u>	<u>(10-12)</u>	<u>4/11/14</u>	<u>8:50</u>																		<u>1265</u>
	<u>P</u>	<u>B-5</u>	<u>(4-6)</u>	<u>4/9/14</u>	<u>2:00</u>																		<u>10.2</u>
	<u>Q</u>	<u>B-5</u>	<u>(10-12)</u>	<u>4/9/14</u>	<u>2:00</u>																		<u>96</u>
	<u>R</u>	<u>B-4</u>	<u>(4-6)</u>	<u>4/9/14</u>	<u>12:40</u>																		<u>1265</u>
	<u>S</u>	<u>B-4</u>	<u>(6-8)</u>	<u>4/11/14</u>	<u>12:40</u>																		<u>148</u>
	<u>T</u>	<u>B-4</u>	<u>(12-14)</u>	<u>4/11/14</u>	<u>12:40</u>																		<u>33</u>

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: Hand  
Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice   
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) DL Stewart Time: 1:30 Date: 4/14/14  
Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
Received in Laboratory By: Chris Pa Time: 8:00 Date: 4/15/14

## Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
920-830-2455 • FAX 920-733-0631

**Sample Handling Request**  
Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No.: Sigma Quote No.: \_\_\_\_\_  
Project #: 14411  
Sampler: (signature) Del Shurt

Project (Name / Location): WFB Landfill / Milwaukee, WI  
Reports To: Mafizul Islam Invoice To: SAME  
Company: Sigma Company: \_\_\_\_\_  
Address: 1300 W Canal Street Address: \_\_\_\_\_  
City State Zip: Milwaukee, WI 53233 City State Zip: \_\_\_\_\_  
Phone: 414-643-4200 Phone: \_\_\_\_\_  
FAX: 414-643-4210 FAX: \_\_\_\_\_

Analysis Requested										Other Analysis											
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS								PID/FID	
											X										272
																					245
																					18.6
																					7.9
																					45
																					0.4

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<u>S026828</u>	<u>U</u>	<u>B-3</u>	<u>(10-12)</u>					<u>Soil</u>	<u>1-Meth</u>
	<u>V</u>	<u>B-3</u>	<u>(6-8)</u>						
	<u>W</u>	<u>B-3</u>	<u>(4-6)</u>						
	<u>X</u>	<u>B-2</u>	<u>(8-10)</u>						
	<u>Y</u>	<u>B-2</u>	<u>(14-16)</u>						
	<u>Z</u>	<u>B-1</u>	<u>(8-10)</u>						

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: Refr  
Temp. of Temp. Blank \_\_\_\_\_ °C On Ice   
Cooler seal intact upon receipt:  Yes  No

Relinquished By: (sign) Del Shurt Time: 9:30 Date: 4/14/14  
Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
Received in Laboratory By: Chris Time: 8:00 Date: 4/15/14



**APPENDIX C**  
**SOIL BORING LOGS**

Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-1</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/9/2014</b>		Date Drilling Completed <b>4/9/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>706.2 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>° ' "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>° ' "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1	CLAYEY SILT, brown/lt brown, med stiff, some gravel, moist				0.1						
			2											
			3						0.3					
2 GP	48 48	P U S H	4	Little organics, reddish/orange mottling										
			5						0.9					
			6		CL-ML									
			7						0.7					
			8											
3 GP	48 12	P U S H	9						0.4					
			10											
			11											
			12	Refusal at 11.5'. Abandoned w/ benotinte chips.										VOC lab sample (8-10')

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-10</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/11/2014</b>		Date Drilling Completed <b>4/11/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>702.2 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>° ' "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>° ' "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 36	P U S H	1	SILTY CLAY, brown, stiff, trace organics, moist	CL-ML			1.8						VOC lab sample (0-2')
			2	SILT, brown/tan, med stiff, some organics, moist	ML			0.4						
2 GP	48 48	P U S H	4	CLAYEY SILT, brown, stiff, reddish staining and red/gray mottles, some gravel, moist	CL-ML			0.3					VOC lab sample (6-8')	
			5				1.0							
3 GP	48 12	P U S H	8	SANDY SILT, brown, med stiff, reddish staining, some gravel, moist	SP-SM			1.5						
			9				1.5							
4 GP	48 12	P U S H	12	CLAYEY SILT, brown, red mottles, some gravel, moist (LOW RECOVERY)	CL-ML			1.2						
			13				1.2							
			16	EOB at 16'. Abandoned with bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-11</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/11/2014</b>		Date Drilling Completed <b>4/11/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>701.5 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>° ' "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>° ' "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>	
				Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 36	P U S H	1.5	CLAYEY SILT, brown, little red/gray mottling, some organics, moist	CL-ML			24						VOC lab sample (0-2')
			3.0	CLAY, brown, v. stiff, little red/gray mottling, trace organics, moist, chemical odor	CL			517						
2 GP	48 48	P U S H	4.5	SILTY SAND, lt brown, med dense, little red mottling, some gravel, moist, chemical odor	SP-SM			360						
			6.0	CLAYEY SILT, lt brown, stiff, some reddish orange mottling, some small gravel, some organic material from 8.5-9', moist, chemical odor	CL-ML			1080						VOC lab sample (6-8')
3 GP	48 48	P U S H	7.5	SANDY SILT, lt brown, fine, stiff, some orangish staining, moist, chemical odor	SP-SM			1312						
			9.0	Water at approx. 13'	ML			1275						VOC lab sample (12-14')
4 GP	48 48	P U S H	13.5	SILT, lt brown, stiff, some orangish staining, wet, chemical odor	CL-ML			430						
			15.0	CLAYEY SILT, lt brown, soft, some orangish staining, wet, chemical odor	SP-SM			511						
5 GP	48 24	P U S H	16.5	SILTY SAND, lt brown, dense, orangish staining, wet, chemical odor	CL			60						VOC lab sample (17-18')
			18.0	CLAY, gray, v. stiff, moist										
				Refusal at 18'. Abandoned w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-12</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/24/2014</b>		Date Drilling Completed <b>4/24/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>_____ ' _____ "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>_____ ' _____ "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 36	P U S H	1	CLAYEY SILT, brown/tan (2.5Y 5/3), med soft, red/orange mottling, some gravel, wet	CL-ML			0.3						
			2											
2 GP	48 36	P U S H	4	SILTY SAND, brown/black (10YR 2/1), med loose, some organics, damp	SP-SM			1.6						
			5	SILTY GRAVEL, gray (2.5Y 6/1), loose, damp	GP-GMP			1.3						
			6	WOOD CHIPS, brown/black, some silt, moist	---									
3 GP	48 48	P U S H	7	SILTY CLAY, dk gray (2.5Y 4/1), stiff, some brown mottling, moist	CL-ML			0.8						
			8	Brownish gray (2.5Y 5/3), some red mottling and small gravel, becoming soft w/depth										
4 GP	48 48	P U S H	12	Water at approx. 12'	CL-ML			6.1						
			13	Gray (2.5Y 5/1), med stiff, moist										
			16	EOB at 16'. Abandoned w/ bentonite chips.				6.6						VOC lab sample (14-16')

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-13</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/24/2014</b>		Date Drilling Completed <b>4/24/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>698.4 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Lat _____"		Long _____"	
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>	
				Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1	SILTY CLAY, grayish brown (10YR 5/2), stiff, moist	CL-ML			0.1						VOC lab sample (0-2')
			2	WOOD CHIPS, dk brown/black (2.5Y 2.5/1), some small gravel, moist	---			0.2						
2 GP	48 48	P U S H	4	SILTY CLAY, grayish brown (10YR 5/2), med stiff, some organics (wood chips), some small gravel, moist	CL-ML			0.5						
			6	Brown (2.5Y 5/4), stiff, some sand/gravel				0.2						
3 GP	48 48	P U S H	8	Water at approx. 8'										
			9	SILTY GRAVEL, lt brown (2.5Y 4/4), some clay, some sand, wet	GW-GM			0.4						
4 GP	48 48	P U S H	11	SAND, dk gray (2.5Y 5/1), coarse, some small gravel, wet	SP			1.5						
			12	SILTY CLAY, gray (2.5Y 5/2), med stiff, moist	CL-ML									
			13	SAND, dk gray (2.5Y 5/1), coarse, med loose, some small gravel, wet	SP			2.6						
			14	SILTY CLAY, gray, med stiff, wet	CL-ML			8.0						
			16	EOB at 16'. Abandoned w/ bentonite chips.								VOC lab sample (14-16')		

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>			License/Permit/Monitoring Number		Boring Number <b>B-14</b>		
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>			Date Drilling Started <b>4/24/2014</b>		Date Drilling Completed <b>4/24/2014</b>		
WI Unique Well No.		DNR Well ID No.	Common Well Name		Borehole Diameter <b>2.0 inches</b>		
			Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>			Lat <b>° ' "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>			Long <b>° ' "</b>				
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>		Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 36	P U S H	1	SILTY CLAY, grayish brown (10YR 5/2), med stiff, little lt brown mottling, little wood chips, damp	CL-ML			0.1						
			2											
2 GP	48 36	P U S H	4	WOOD CHIPS, dk brown/black (10YR 2/2), loose, some silt, little plastic waste, damp	---			0.1						
			5	SILTY CLAY, orangish brown (10YR 5/8), med soft, some gravel, little black sand, moist	CL-ML			0.2						
3 GP	48 48	P U S H	7	Water at approx. 7				0.2						
			8	GRAVELLY SAND, brownish gray (10YR 4/2) coarse, med dense, wet	SP			0.2						
4 GP	48 48	P U S H	9	SILTY CLAY, brownish gray (10YR 4/2), med stiff, moist	CL-ML			0.3						
			10											
			12	GRAVEL, brown, med coarse, med loose, some silt, wet	GP			1.4						
			14	SILTY CLAY, brownish gray (10YR 4/2), stiff, wet	CL-ML			1.3						
			16	EOB at 16'. Abandoned w/ bentonite chips.										

VOC lab sample (10-12')

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-15</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/24/2014</b>		Date Drilling Completed <b>4/24/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>	
				Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 12	P U S H	1.5	CLAYEY SILT, dk brown (10YR 2/2), some orange staining, med stiff, moist	CL-ML			0.2						
2 GP	48 48	P U S H	4.5	SILTY CLAY, brownish gray (10YR 5/2), red staining/mottling, stiff, moist	CL-ML			0.2						VOC lab sample (4-6')
3 GP	48 36	P U S H	9.0		CL-ML			0.2						
4 GP	48 48	P U S H	12.0	GRAVELLY SAND, orangish brown (2.5Y 5/4), coarse, desne, some v. stiff clay, moist	SP			0.7						
			13.5	SILT, dk brown (10YR 3/2) med stiff, little clay, little sand, some glass pieces and waste material, damp	ML			0.4						
			15.0	Water at approx. 14'	CL-ML			0.2						
				SILTY CLAY, gray (10YR 5/1), med stiff, some gravel, wet										
				EOB at 16'. Abandoned w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-16</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/24/2014</b>		Date Drilling Completed <b>4/24/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>° ' "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>° ' "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 36	P U S H	1	CLAYEY SILT, brown/dk brown/tan/gray, some waste materials (glass, plastic, etc.), some sand and gravel, little orange mottling, damp	CL-ML			0.4						
			2											
2 GP	48 48	P U S H	4	Refusal at 5'. Moved approx. 10' southeast and re-drilled: SILTY CLAY, brownish gray (2.5Y 4/2), stiff, some orange mottling, moist				0.3						VOC lab sample (4-6')
			5											
3 GP	48 48	P U S H	8	Soft	CL-ML			0.3						
			9											
4 GP	48 36	P U S H	12	Water at approx 13.5' GRAVELLY SAND, brownish gray (2.5Y 4/2), med dense, coarse, some waste material (glass and concrete), some silt and organics, little clay, wet	SP			0.4						
			13											
			14	EOB at 16'. Abandoned with bentonite chips.				1.3						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-17</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/24/2014</b>		Date Drilling Completed <b>4/24/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>_____ ' _____ "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>_____ ' _____ "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>	
				Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 36	P U S H	2	CLAYEY SILT, brown (10YR 4/3), med stiff, some waste material (plastic, metal, etc.), little sand, reddish orange mottling, damp	CL-ML			0.8						
			4	Gray (7.5YR 5/1), v. stiff				0.8						
2 GP	48 48	P U S H	6	SILTY CLAY, gray (7.5YR 5/1), med soft, some orangish staining/mottling, moist	CL-ML			2.5						
			8					1.4						
3 GP	48 36	P U S H	10		CL-ML			2.5						
			12	GRAVELLY SAND, dk gray (10YR 4/1), coarse, loose, damp				22.1					VOC lab sample (10-12')	
4 GP	48 48	P U S H	14	SILTY CLAY, grayish brown (2.5Y 5/2), med soft, moist	ML GP			5.5						
			16	SILT, brown (7.5YR 4/3), med soft, some organics, little gravel, damp				2000+					VOC lab sample (14-16')	
5 GP	48 48	P U S H	18	SANDY GRAVEL, dk gray/black (10YR 4/1), med dense, moist	CL-ML			2000+						
			20	SILTY CLAY, gray (10YR 5/1), med stiff, some large gravel, moist, petrol odor Water at approx. 16'				262						
6 GP	48 48	P U S H	22	CLAYEY SILT, gray (10YR 5/1), v. soft, some gravel, wet, petrol odor	SP-SM			295						
			24	SILTY SAND, gray (10YR 5/1), dense, some gravel, wet, petrol odor				89					VOC lab sample (22-24')	
			24	EOB at 24'. Abandoned w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-18</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/25/2014</b>		Date Drilling Completed <b>4/25/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Lat _____"		Long _____"	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 48	P U S H	1.5	CLAYEY SILT, brown (10YR 5/3), med stiff, some gravel, few orangish mottles, damp	CL-ML			0.5							
			3.0												8.8
2 GP	48 48	P U S H	4.5	SILTY SAND, lt brown (10YR 5/6), med loose, some gravel, few clay, some reddish orange staining, moist	SP-SM			18.1							
			6.0												26.9
3 GP	48 48	P U S H	7.5	CLAYEY SILT, lt brown (10YR 5/6), stiff, some orange/black mottles, some small gravel, moist	CL-ML			26.9							
			9.0												8.7
4 GP	48 48	P U S H	10.5	SILT, lt brown (2.5YR 5/4), med stiff, wet	ML			9.3							
			12.0												9.4
			13.5												34.6
			15.0	CLAYEY SILT, brownish gray (2.5YR 5/2), med stiff, little sand, little small gravel, trace green mottling, wet	CL-ML										
				EOB at 16'. Abandoned w/ bentonite chips.										VOC lab sample (14-16')	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-19</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/25/2014</b>		Date Drilling Completed <b>4/25/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments		
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200			
1 GP	48 36	P U S H	1	CLAYEY SILT, brown (10YR 4/3), some glass shards, some sand/gravel, some red/orange staining, damp	CL-ML			0.4								
			2					0.7								
2 GP	48 24	P U S H	4	Refusal at 5' due to concrete. Moved approx. 20' west and re-drilled: CLAYEY SILT	CL-ML			6.7								
			6					2000+								
3 GP	48 48	P U S H	7	Concrete.	CL-ML			415					VOC lab sample (6-8')			
			8	CLAYEY SILT, same as 0-6.5' above. Soil stained black for approx. 3-4" under concrete layer, petrol odor Water at approx 8'					GP-GM							
4 GP	48 48	P U S H	9	GRAVELLY SILT, dk brown (10YR 2/2), v. soft, some sand, v. wet, strong petrol odor	ML			1940								
			10					SILT, brown (10YR 5/3), some clay and gravel, some orangish mottling, moist, petrol odor	ML			1060				VOC lab sample (12-14')
			11					SILT, dk gray (10YR 4/1), med stiff, wet, strong chemical odor								
			12					Refusal at 16'. EOB at 16'. Abandoned with bentonite chips.								

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-2</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/9/2014</b>		Date Drilling Completed <b>4/9/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Lat _____"		Long _____"	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1.5	CLAYEY SILT, brown, stiff, some organics, trace gravel, reddish/gray/black mottles, moist	CL-ML			---						
			3.0											
2 GP	48 48	P U S H	4.5	SAND, lt brown, fine, dense, moist	SP			---						
			6.0											
3 GP	48 48	P U S H	7.5	Trace organics, v. fine and silty w/ depth	SP			5.6						
			9.0											
4 GP	48 48	P U S H	10.5	Water at approx. 12'	SP-SM			7.7						
			12.0											
			13.5	SILTY SAND, lb brown, v. fine, v. dense, wet	SP-SM			9.9						
			15.0											
				SILTY CLAY, gray, stiff, wet	CL-ML			19.8						
				EOB at 16'. Abandoned w/ bentonite chips.				45						VOC lab sample (14-16')

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-20</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/25/2014</b>		Date Drilling Completed <b>4/25/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Lat _____ ' _____ "		Long _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24	P U S H	1	SILTY CLAY, dk brownish gray (10YR 4/2), stiff, some organic material (wood chips), some gravel, damp	CL-ML			0.7						
			2											
2 GP	48 48	P U S H	4	SILT, dk brown (7.5 YR 2.5/2), soft, some lt gray/white mottling/staining, some gravel, dry	ML			8.0						VOC lab sample (4-6')
			5											
3 GP	48 36	P U S H	6	CLAYEY SILT, brown (10YR 4/3), stiff, some yellow/orange mottling, damp	CL-ML			0.6						
			7											
4 GP	48 48	P U S H	8	SILTY SAND, yellowish brown (10YR 5/6), some small gravel, loose, dry	SP-SM			1.5						
			9											
4 GP	48 48	P U S H	11	SAND, lt brown (2.5 YR 5/4), med coarse becoming fine/silty w/ depth, loose becoming dense w/ depth, moist	SP			0.8						
			12											
4 GP	48 48	P U S H	13	Water at approx 14'	ML			3.5						
			14											
4 GP	48 48	P U S H	15	SILT, dk gray/black (10YR 2/1), stiff, wet	ML			22.0						VOC lab sample (14-16')
			16											
				EOB at 16'. Abandoned w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-21</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/25/2014</b>		Date Drilling Completed <b>4/25/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>° ' "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>° ' "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 48	P U S H	1.5	SILTY CLAY, lt brownish gray (2.5Y 5/3), med stiff, little gravel, moist	CL-ML			0.0							
			3.0	SANDY SILT, dk brown (10YR 3/3), med soft, some orange staining, some gravel, moist	SP-SM			0.0							
2 GP	48 48	P U S H	4.5	SAND, lt brown (10YR 5/6), coarse, dense, some orange staining, moist	SP			5.2							
			6.0				8.0								
3 GP	48 48	P U S H	9.0	SANDY SILT, lt brown/dk brown/reddish brown, med stiff, some organics and gravel, moist	SP-SM			0.5							
			10.5	Concrete				0.0							
4 GP	48 48	P U S H	12.0	CLAYEY SILT, brown (10YR 4/3), stiff becoming soft w/ depth, some gray/orange mottles, some gravel, moist	CL-ML			0.2							
			13.5												
			15.0	SAND, brown (10YR 5/6), dense, coarse, moist	SP			6.9							
				EOB at 16'. Abandoned w/ bentonite chips.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.




Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-22</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Cory Soil Essentials</b>		Date Drilling Started <b>5/12/2014</b>		Date Drilling Completed <b>5/12/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 24	P U S H	1	SILT, dk brown, med soft, little clay, some waste material (glass), moist	ML			1.4						
			2											
2 GP	48 12	P U S H	4	SILTY CLAY, brownish gray, stiff becoming med soft w/ depth, little dk brown mottling, trace glass, moist	CL-ML			1.3						
			5											
3 GP	48 24	P U S H	8	GRAVELLY SAND, brown, med loose, moist	SP			1.7						
			9											
4 GP	48 36	P U S H	12	CLAYEY SILT, gray, soft, some dk gray staining, some gravel, moist	CL-ML			1.0						
			13											
			16	EOB at 16'. Abandoned w/ bentonite chips										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-23</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Cory Soil Essentials</b>		Date Drilling Started <b>5/12/2014</b>		Date Drilling Completed <b>5/12/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 24	P U S H	1	SILT, lt brown, med soft, little clay, some waste material (glass), moist	ML			0.0							
			2	ORGANIC SILT, dk brown, soft, some glass chips, damp	OL			1.7							
2 GP	48 36	P U S H	4	SILTY CLAY, dk gray, stiff becoming med soft w/ depth, some reddish mottling, moist	CL-ML			1.5							
			5					2.0							
3 GP	48 24	P U S H	8	GRAVELLY SAND, grayish brown, med loose, moist	SP			2.6							
			9					6.8							
4 GP	48 24	P U S H	12	Dk gray, wet	SP			24.7							
			13					CLAY, grayish brown, med soft, moist, slight chem odor	CL						
			14						GRAVELLY SAND, lt brown, med dense, moist	SP		0.6			
			15					EOB at 16'. Abandoned with bentonite chips.							

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-24</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Cory Soil Essentials</b>		Date Drilling Started <b>5/12/2014</b>		Date Drilling Completed <b>5/12/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 36	P U S H	1.5	CLAYEY SILT, lt brown, med soft becoming stiff w/ depth, some orange mottling, little gravel, moist				0.8							
2 GP	48 36	P U S H	4.5	Brown/dk brown, trace orange mottles	CL-ML			1.4							
3 GP	48 24	P U S H	9.0	SILTY SAND, lt brown, loose, few gravel/concrete chips, damp	SP-SM			6.0							
4 GP	48 24	P U S H	12.0	CLAYEY SILT, lt orangish brown, med stiff, some sand, trace gravel, damp becoming v. moist w/ depth, slight petrol/chem odor				6.3							
5 GP	48 48	P U S H	16.5	Lt olive brown becoming brownish gray w/ depth, little orange mottles and trace greenish sand	CL-ML			7.6							
			18.0					3.9							
			19.5					36.4							
				EOB at 20'. Abandoned with bentonite chips.				20.3							VOC Lab Sample (12-14)
								8.0							
								12.5							

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-25</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Cory Soil Essentials</b>		Date Drilling Started <b>5/12/2014</b>		Date Drilling Completed <b>5/12/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1	CLAYEY SILT, dk brown becoming lt brown w/ depth, med stiff, orangish mottling, moist	CL-ML			11.1					VOC Lab Sample (0-2)	
			2					20.2						
2 GP	48 24	P U S H	4	SILTY CLAY, brown/dk brown, stiff, damp	CL-ML			26.1						
			5					39.9						
3 GP	48 24	P U S H	8	Water at approx. 8' CLAYEY SILT, lt brown, med soft, some sand and gravel, some greenish gray mottles, wet	CL-ML			167.1						
			9					5000+						
4 GP	48 24	P U S H	12	CLAY, brownish gray, v. stiff, damp	CL			1548					VOC Lab Sample (10-12)	
			13					226.1						
			16	EOB at 16'. Abandoned w/ bentonite chips.										

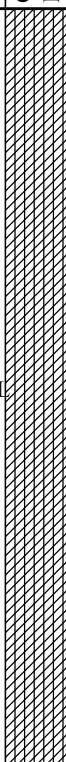
I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-26</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Dusty On-Site Environmental</b>		Date Drilling Started <b>5/28/2014</b>		Date Drilling Completed <b>5/28/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	24 18	PUSH	0.5	CLAYEY SILT, dk brown, med stiff, trace gravel, moist	CL-ML			14.9						
2 GP	24 24	PUSH	2.0											
			3.0					34.9						
			4.0	Hand auger rejection at 4'. Abandoned with bentonite chips.									VOC lab sample (2-4')	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-27</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>6/16/2014</b>		Date Drilling Completed <b>6/16/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Lat _____"		Long _____"	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1	SILTY SAND, brown, med dense, some clay, some waste material (glass and concrete), moist	SP-SM			2.0						
			2											
2 GP	48 48	P U S H	3	CLAYEY SILT, lt olive brown, stiff, some gray mottling, moist Some red and orange mottling, some gravel	CL-ML			1.8						
			4											
			5											
3 GP	48 48	P U S H	6	CLAYEY SILT, lt tan/brown, soft, v moist	CL-ML			1.9						
			7											
			8	Water at approx. 10'				12.5						
			9											
			10	SILT, lt tan/brown, med stiff, some gray and orangish staining, wet	ML			3.4						
			11											
			12	EOB at 12'. Abandoned w/ bentonite chips.				20.9						VOC lab sample (10-12')

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-28</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>6/16/2014</b>		Date Drilling Completed <b>6/16/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>_____ ° _____ ' _____ "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>_____ ° _____ ' _____ "</b>		Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W	
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>	
				Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 36	P U S H	1	SILT, dk brown, soft, some gravel and root material, moist	ML			0.1						
			2	SILT, lt brown, stiff, some clay, some gravel, orange/yellow staining and mottling, damp becoming moist				1.6						
2 GP	48 48	P U S H	4		ML			7.5						
			5				5.4							
3 GP	48 48	P U S H	8	SILTY CLAY, lt grayish brown, soft, trace gravel, orangish mottling, v moist Water at approximately 8'	CL-ML									
			9	SILT, lt grayish brown, med stiff, wet	ML			52.5						
			10	CLAYEY SILT, gray, med soft becoming stiff w/ depth, trace small gravel, wet	CL-ML			130.1					VOC lab sample (10-12')	
			12	EOB at 12'. Abandoned w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>			License/Permit/Monitoring Number		Boring Number <b>B-29</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>			Date Drilling Started <b>6/16/2014</b>		Date Drilling Completed <b>6/16/2014</b>	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Final Static Water Level <b>Feet MSL</b>	Surface Elevation <b>Feet MSL</b>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Lat <u>    </u> ° <u>    </u> ' <u>    </u> "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E		Long <u>    </u> ° <u>    </u> ' <u>    </u> "		Feet <input type="checkbox"/> S <input type="checkbox"/> W		Borehole Diameter <b>2.0 inches</b>
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 36	P U S H	1	SILT, brown, med stiff, some clay, some sand, some gravel, little waste material (glass), moist	ML			0.9							
			2												
2 GP	48 24	P U S H	4	SAND, orangish brown, coarse, loose, damp CLAYEY SILT, lt olive brown, med stiff, some orange and yellow staining, few sand and gravel, damp	SP			1.7							
			5												
3 GP	48 48	P U S H	8	Water at approx. 8.5'	CL-ML			2.1							
			9												
			9	SILT, dk gray/gray, med stiff, little orangish staining, wet, chem odor	ML			25.4						VOC lab sample (8-10)	
			10												
			11	CLAYEY SILT, gray, med stiff, trace gravel, wet	CL-ML			13.9							
			12												
			12	EOB at 12'. Abandoned w/ bentonite chips.											

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>			License/Permit/Monitoring Number		Boring Number <b>B-3</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>			Date Drilling Started <b>4/9/2014</b>		Date Drilling Completed <b>4/9/2014</b>	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Final Static Water Level <b>Feet MSL</b>	
					Surface Elevation <b>702.0 Feet MSL</b>	
					Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane <b>N, E S/C/N</b>			Lat _____ "			<input type="checkbox"/> N <input type="checkbox"/> E
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>			Long _____ "			Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1	CLAYEY SILT, brown/lt brown, stiff, some orange/red mottles, some organics, moist				8.2						
			2											
2 GP	48 48	P U S H	4	orange/red/yellow/gray staining and mottling, med soft, v. moist	CL-ML			14.3						
			5											
3 GP	48 48	P U S H	7	SILTY SAND, lt brown, v. fine, v. dense, reddish orange staining, moist Water at approx. 8'	SP-SM			245						VOC lab sample (6-8')
			8											
			9											
			10											
			11	SILTY SAND, lt brown, v. fine, v. dense, wet	SP-SM			272					VOC lab sample (10-12')	
			12	EOB at 12'. Abandoned w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-30</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>6/16/2014</b>		Date Drilling Completed <b>6/16/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 36	P U S H	1	SILTY CLAY, brown, med stiff, some sand and waste material, damp	CL-ML			1.6						
			2											
			3											
2 GP	48 48	P U S H	4	SILT, lt brown, med stiff, some orange and gray mottling, few sand and gravel, moist becoming wet w/ depth	ML			3.3						
			5											
			6											
3 GP	48 48	P U S H	7	Water at approx. 6.5'	ML			12.2						
			8											
			9											
			10											
			11											
			12	SILTY CLAY, gray, v stiff, some gravel, damp	CL-ML			30.1						
				EOB at 12'. Abandoned w/ bentonite									VOC lab sample (10-12)	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-31</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>6/16/2014</b>		Date Drilling Completed <b>6/16/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Lat _____"		Long _____"	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48	PUSH	1	Blind drill to 4'. See B-26 (same location).											
			2		---										
2 GP	48 36	PUSH	4	SAND, dk gray, coarse, loose, chem odor, wet	SP										
			5	SILT, lt brown, stiff, some orange and gray mottling, dry	ML			377							VOC lab sample (4-5)
			6	CLAYEY SILT, lt brown, med stiff, some orange and gray mottling, moist becoming wet w/ depth, chem odor					39						
			7	Water at approx. 8'											
3 GP	48 18	PUSH	8												
			9		CL-ML										
			10												
			11												
			12	EOB at 12'. Abandoned with bentonite chips.					54						VOC lab sample (10-12)

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>			License/Permit/Monitoring Number		Boring Number <b>B-4</b>		
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>			Date Drilling Started <b>4/9/2014</b>		Date Drilling Completed <b>4/9/2014</b>		
WI Unique Well No.		DNR Well ID No.	Common Well Name		Final Static Water Level <b>Feet MSL</b>		
					Surface Elevation <b>Feet MSL</b>		
					Borehole Diameter <b>2.0 inches</b>		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>			Lat <b>° ' "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>			Long <b>° ' "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>		Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1	SILTY CLAY, dk brown/brown, stiff, orange/red mottles, some gravel, little sand, moist	CL-ML			8.5						
			2					19.5						
2 GP	48 48	P U S H	4	CLAYEY SILT, lt brown, med stiff, orangish red/gray mottles, some small gravel, v. moist	CL-ML			12.5						VOC lab sample (4-6')
			5					148					VOC lab sample (6-8')	
3 GP	48 48	P U S H	8	Water at approx. 7.75'										
			9	SANDY SILT, lt brown/tan, stiff, orange/red staining and mottling, few green mottles, some small gravel, wet	SP-SM			140						
4 GP	48 48	P U S H	11	CLAYEY SILT, brownish gray, med soft, orange/red staining and mottling, wet	CL-ML			56						
			12	SILTY CLAY, gray, v. stiff, several 2-4" coarse brown sand seams, some small gravel, moist	CL-ML			33					VOC lab sample (12-14')	
			13		CL-ML			10.9						
			14		CL-ML									
			16	EOB at 16'. Abandoned w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-5</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/9/2014</b>		Date Drilling Completed <b>4/9/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1	CLAYEY SILT, brown/lt brown, reddish orange staining and mottling, some gravel, moist	CL-ML			5.7						
			2					6.0						
2 GP	48 48	P U S H	4	SANDY SILT, lt brown, stiff, some reddish mottling, some small gravel, moist	SP-SM			10.2						VOC lab sample (4-6')
			5					41.5						
3 GP	48 48	P U S H	8	CLAYEY SILT, lt brown, med stiff, orangish staining, some sand, v. moist	CL-ML			21						VOC lab sample (10-12')
			9											
			10											
			11	SILTY SAND, lt brown, coarse becoming fine silt w/ depth, orangish staining, moist	SP-SM			96						
			12	Refusal at 11.5'. Moved south 5' and re-drilled. Refusal again at 11.5'. Both borings abandoned with bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-6</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/11/2014</b>		Date Drilling Completed <b>4/11/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>° ' "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>° ' "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48	PUSH	1	SAND, lt brown, fine, med loose, some orange staining, moist	SP									
			2	SILTY CLAY, brown, stiff, some orange/gray mottling, trace organics, moist	CL-ML			49					VOC lab sample (0-2')	
2 GP	48	PUSH	3					10						
			4	GRAVEL, gray, moist	GP			11.5						
3 GP	48	PUSH	5	SILTY SAND, lt brown/tan, med loose, red/gray mottling, little clay, moist	SP-SM			32						
			6					125						
			7	CLAYEY SILT, gray/brown, stiff, orange mottles, some sand and gravel, strong chemical odor, moist	CL-ML			1265					VOC lab sample (10-12')	
			8	Refusal at 11.75'. Moved approx. 4' east and re-drilled. Refusal again at 11'. Abandoned both borings w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>			License/Permit/Monitoring Number		Boring Number <b>B-7</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>			Date Drilling Started <b>4/11/2014</b>		Date Drilling Completed <b>4/11/2014</b>	
WI Unique Well No.		DNR Well ID No.	Common Well Name		Final Static Water Level <b>Feet MSL</b>	Surface Elevation <b>705.9 Feet MSL</b>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Lat <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
<b>NE 1/4 of NW 1/4 of Section 23, T 8 N, R 21 E</b>		Long <input type="checkbox"/> ° <input type="checkbox"/> ' <input type="checkbox"/> "		Feet <input type="checkbox"/> S <input type="checkbox"/> W		Borehole Diameter <b>2.0 inches</b>
Facility ID		County <b>Milwaukee</b>		County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
1 GP	48 48	P U S H	1	SILTY CLAY, brown/dk brown, stiff, some orange mottling, some small gravel and organics, moist	CL-ML			0.9							
			2												
2 GP	48 48	P U S H	4	SANDY SILT, lt brown, loose, dry	SP-SM			1.5						VOC lab sample (2-4')	
			5												
3 GP	48 48	P U S H	6	dk brown, some red mottles, some gravel	SP-SM			1.5						VOC lab sample (6-8')	
			7												
4 GP	48 48	P U S H	8	SILTY SAND, lt brown, loose, v. fine, orangish staining, some small gravel, dry	SP-SM			3.5							
			9												
4 GP	48 48	P U S H	11	SILTY CLAY, brown, stiff, orangish red mottles, some small gravel, moist	CL-ML			3.1							
			12												
4 GP	48 48	P U S H	13	SILTY SAND, lt brown/gray, fine, med loose, some orange mottling, some small gravel, moist	SP-SM			5.8							
			14												
4 GP	48 48	P U S H	15	CLAYEY SILT, brownish gray, stiff, some orange/gray mottling, moist	CL-ML			13.5							
			16												
				EOB at 16'. Abandoned with bentonite chips.											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-8</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/11/2014</b>		Date Drilling Completed <b>4/11/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <b>N, E S/C/N</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Lat _____ ' _____ "		Long _____ ' _____ "	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1.5	CLAY, grayish brown, v. stiff, moist	CL									
			3.0	CLAYEY SILT, brown/v. dk brown/black, orange mottles, some organics (wood chips), moist	CL-ML			0.0						
2 GP	48 48	P U S H	4.5	SILTY CLAY, dk brown, stiff, dk gray/red mottles, trace organics, moist	CL-ML									
			6.0	CLAYEY SILT, lt brown, med stiff, orange/red/yellowish tan/gray streaks and mottles, some gravel, moist	CL-ML			0.0						
3 GP	48 48	P U S H	7.5	Grayish brown, med soft	CL-ML								VOC lab sample (6-8')	
			9.0	SAND, black, med, moist	SP			18					VOC lab sample (8-10')	
4 GP	48 48	P U S H	10.5	Same as 6-9' above.	CL-ML									
			10.5	SILT, brownish gray, stiff, orangish staining, v. moist	ML									
			12.0	GRAVELLY SAND, brown, coarse, med loose, some reddish staining, moist	SP			10.2						
			13.5	SANDY SILT, brownish gray, v. stiff, little gravel, some orangish staining, wet	SP-SM			14						
			15.0	SAND, reddish brown, coarse, reddish staining, some gravel, wet	SP			19					VOC lab sample (14-16')	
				EOB at 16'. Abandoned w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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Route To: Watershed/Wastewater  Waste Management   
Remediation/Redevelopment  Other

Facility/Project Name <b>Whitefish Bay Landfill</b>		License/Permit/Monitoring Number		Boring Number <b>B-9</b>	
Boring Drilled By: Name of crew chief (first, last) and Firm <b>Joshua Bartolomey Sigma</b>		Date Drilling Started <b>4/11/2014</b>		Date Drilling Completed <b>4/11/2014</b>	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level <b>Feet MSL</b>		Surface Elevation <b>700.9 Feet MSL</b>		Borehole Diameter <b>2.0 inches</b>	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <b>N, E S/C/N</b>		Lat <b>° ' "</b>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NE 1/4 of NW 1/4 of Section <b>23, T 8 N, R 21 E</b>		Long <b>° ' "</b>		Feet <input type="checkbox"/> S <input type="checkbox"/> W	

Facility ID	County <b>Milwaukee</b>	County Code <b>41</b>	Civil Town/City/ or Village <b>Milwaukee</b>
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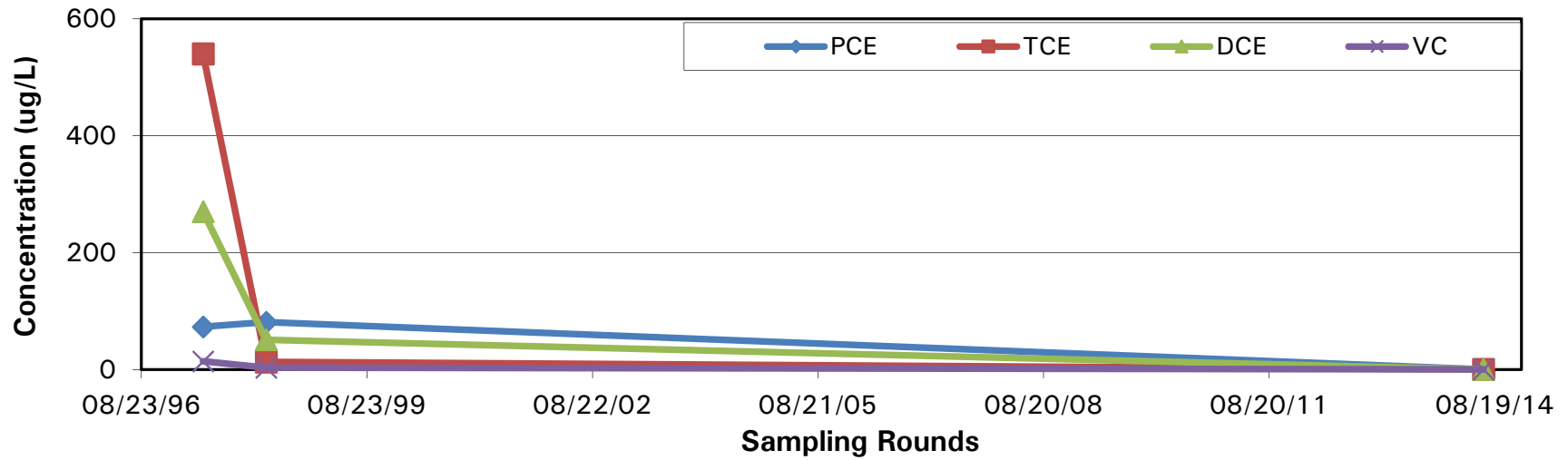
Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
1 GP	48 48	P U S H	1	SILTY CLAY, grayish brown, med stiff, some stone and gravel, moist	CL-ML			2.0						
			2											
2 GP	48 48	P U S H	4	ORGANIC CLAYEY SILT, dk brown/black, med soft, some woodchips, little sand, moist	OL			1.9						
			5											
3 GP	48 48	P U S H	6	CLAY, dk gray/gray, stiff becoming medium stiff w/ depth, orangish staining and mottling, moist	CL			1.9						VOC lab sample (6-8')
			7											
4 GP	48 24	P U S H	9	SILTY CLAY, brownish gray, med soft, orange/red mottling, some gravel, trace dk brown/black sand, moist	CL-ML			3.5						
			10											
			12					7.5						
			13					2.1						
			14											
			15											
			16					9.8						VOC lab sample (14-16')
			16	EOB at 16'. Abandoned w/ bentonite chips.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

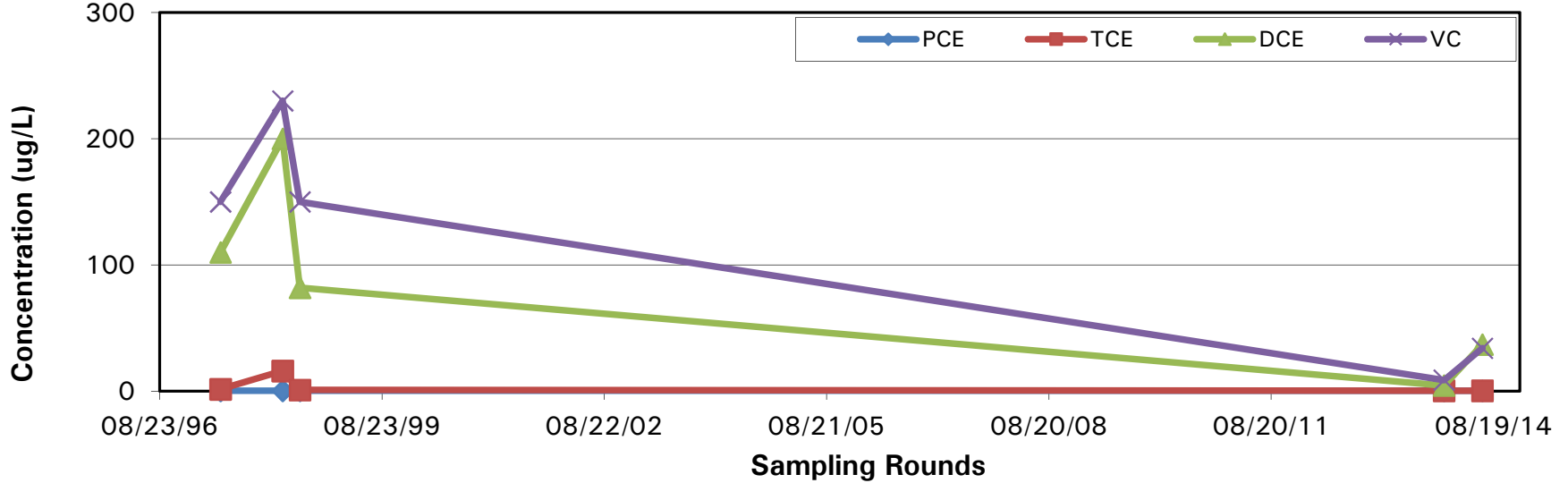
Signature	Firm <b>The Sigma Group, Inc.</b> 1300 W. Canal St Milwaukee, WI 53233	Tel: 414-643-4200 Fax: 414-643-4210
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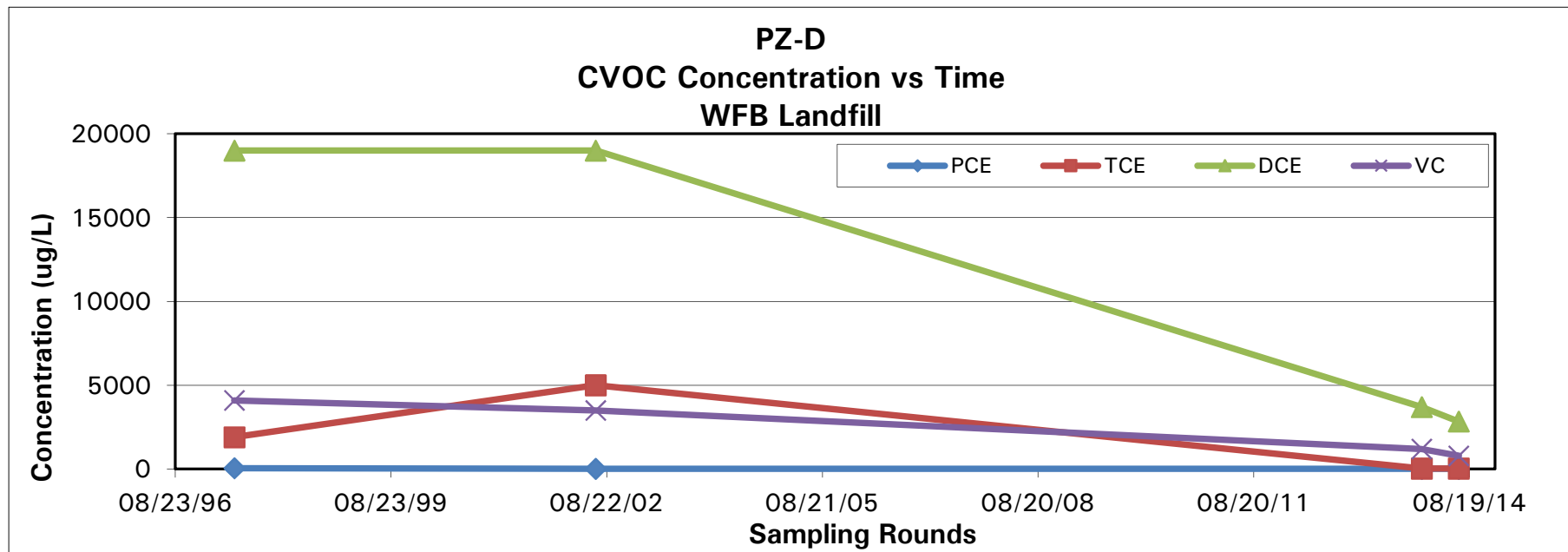
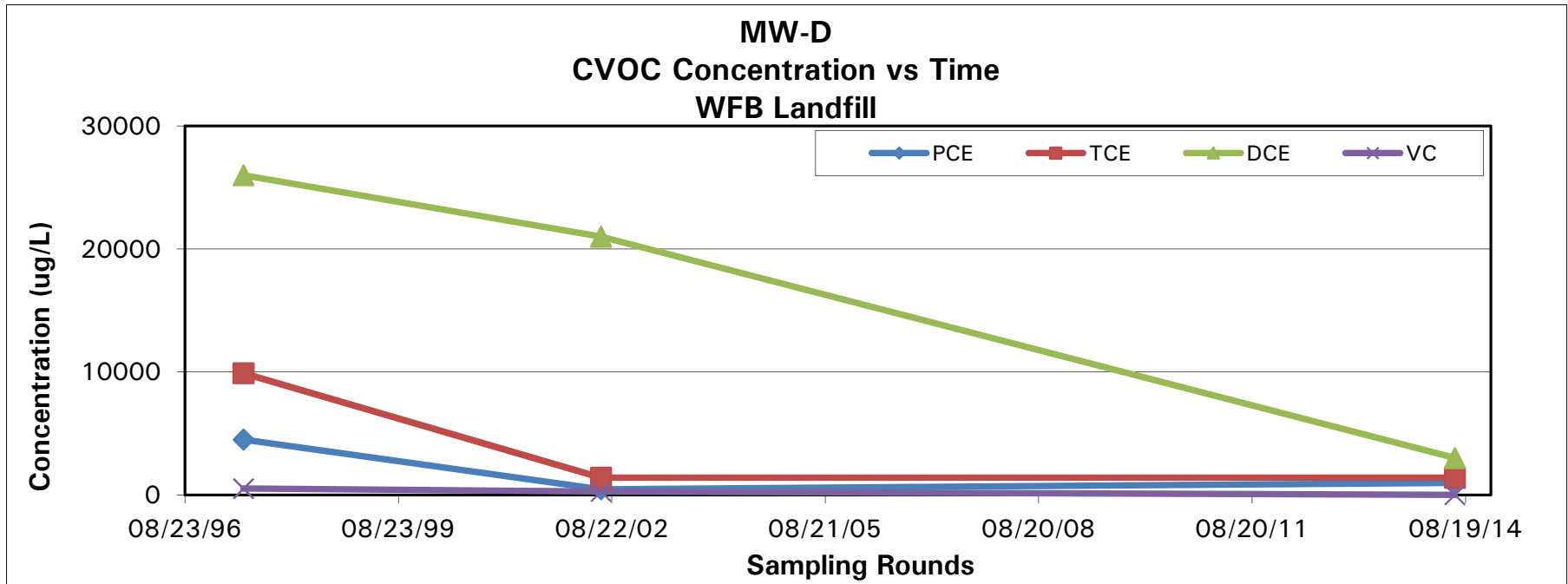
**APPENDIX D**  
**GROUNDWATER CONCENTRATION**  
**VERSUS**  
**TIME PLOTS**

**MW-C**  
**CVOC Concentration vs Time**  
**WFB Landfill**

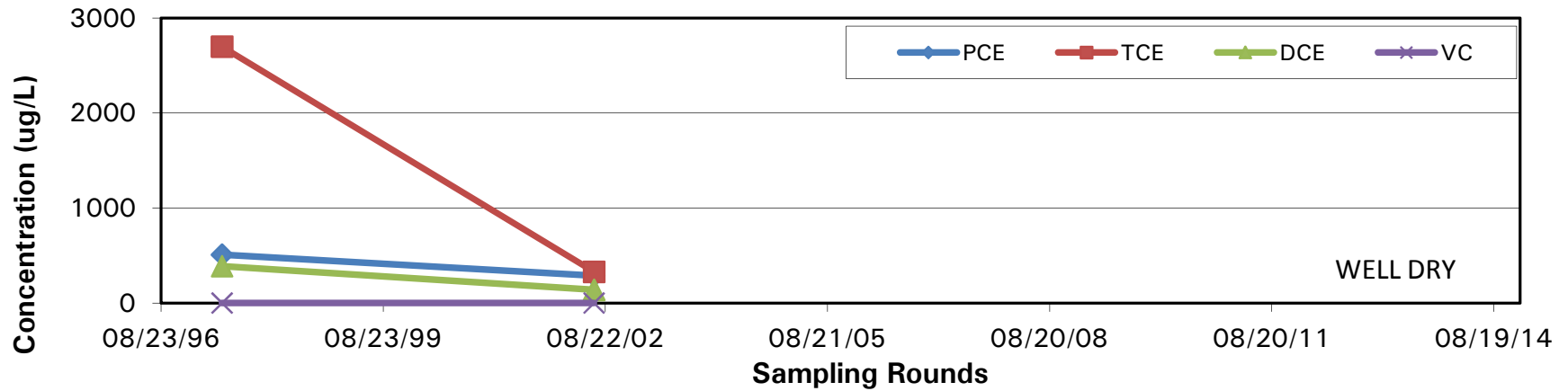


**PZ-C**  
**CVOC Concentration vs Time**  
**WFB Landfill**

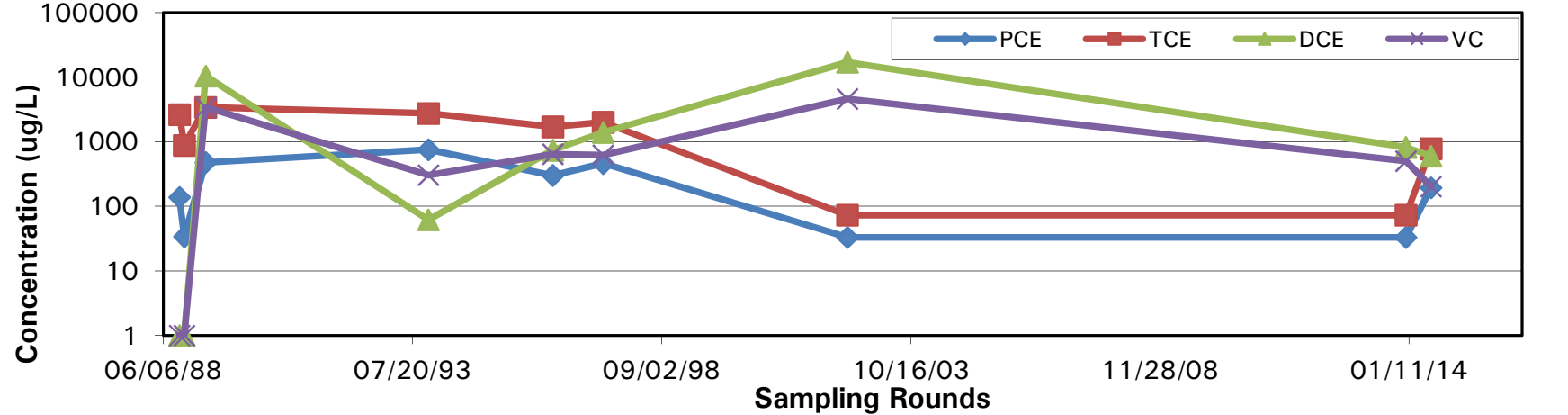




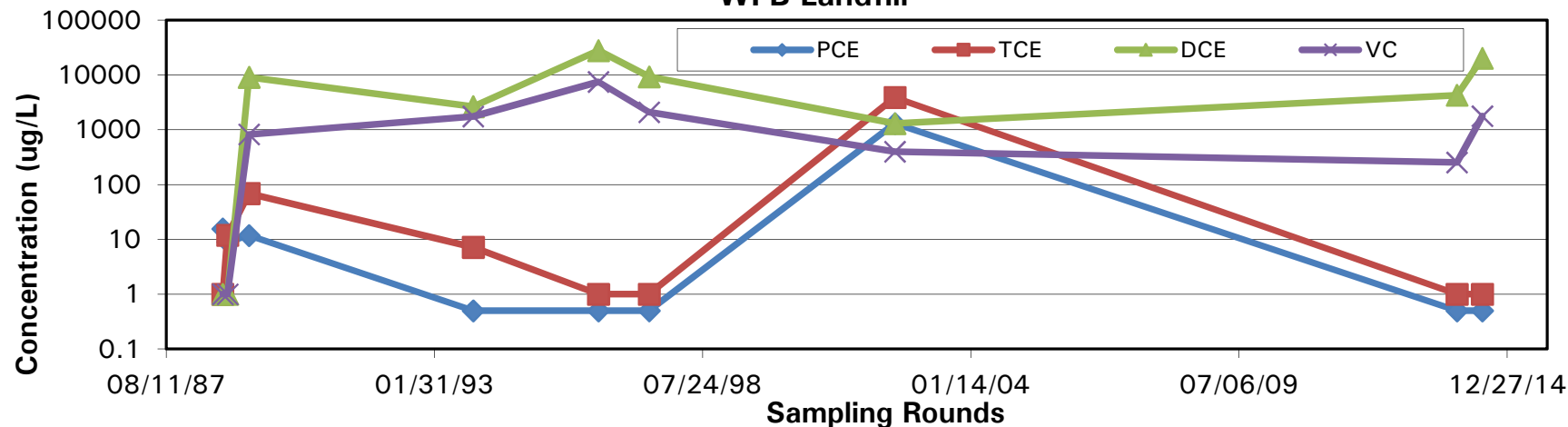
**MW- E**  
**CVOC Concentration vs Time**  
**WFB Landfill**



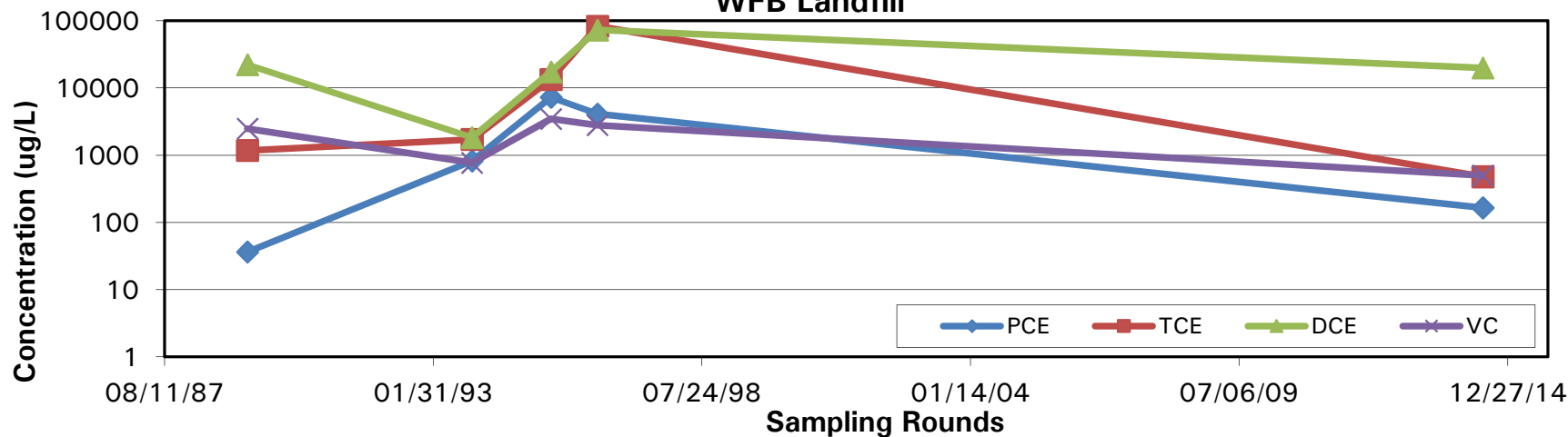
**W - MW - 10**  
**CVOC Concentration vs Time**  
**WFB Landfill**

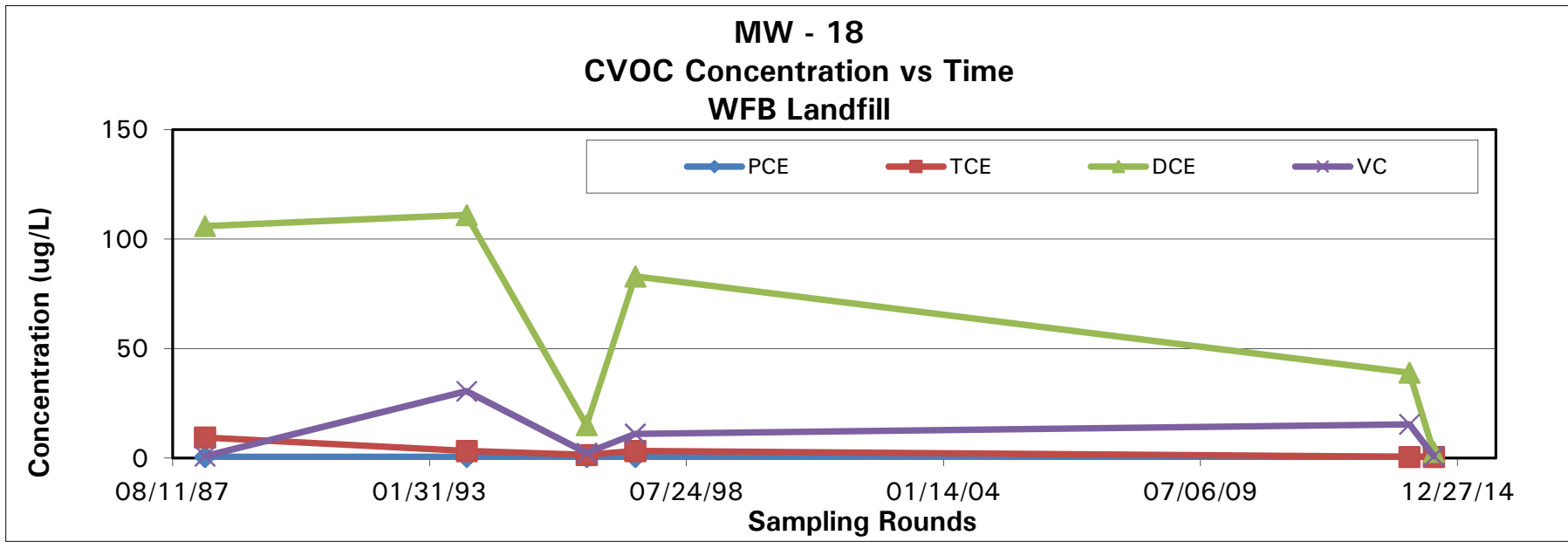
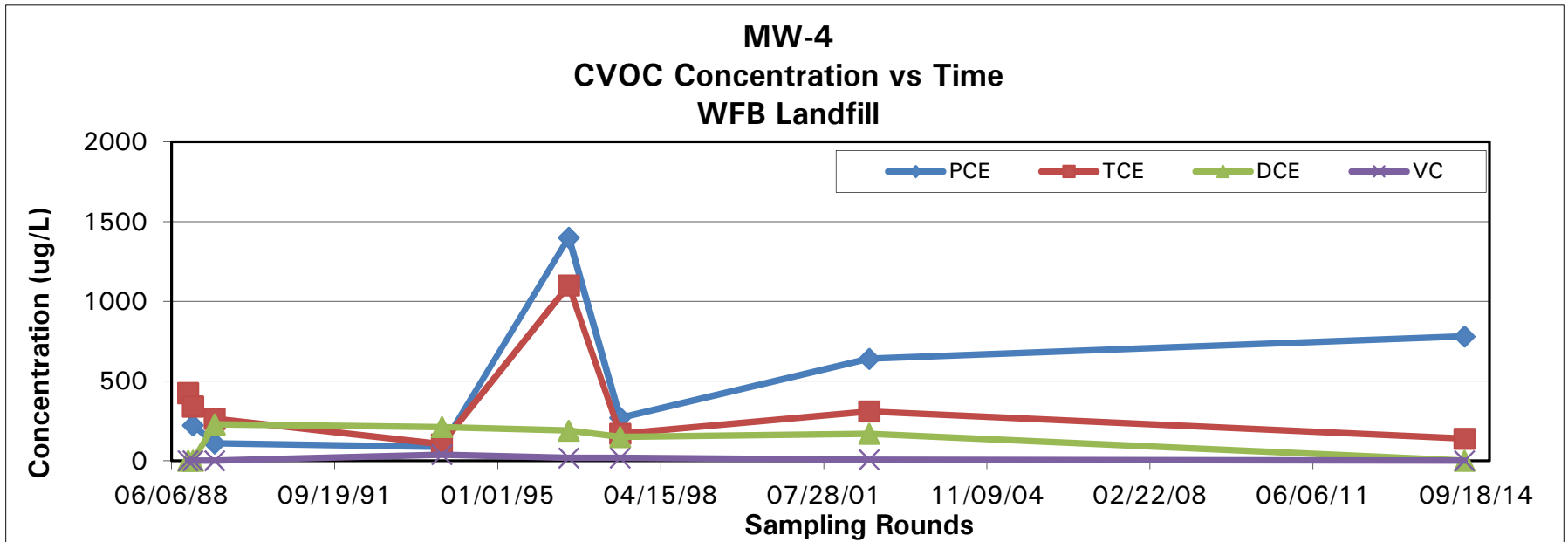


**W - MW - 11**  
**CVOC Concentration vs Time**  
**WFB Landfill**



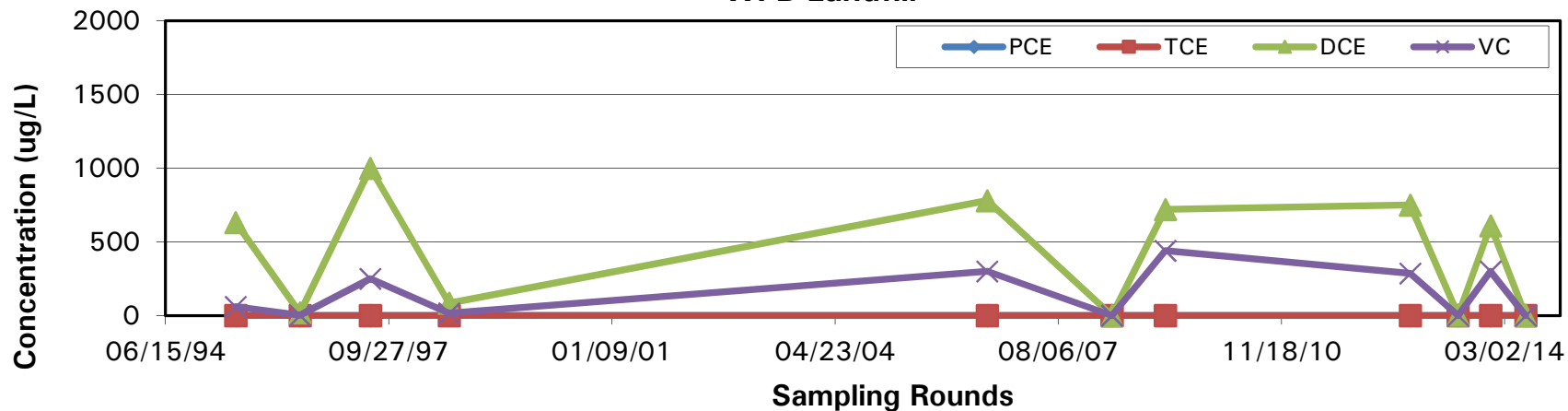
**MW - 22**  
**CVOC Concentration vs Time**  
**WFB Landfill**



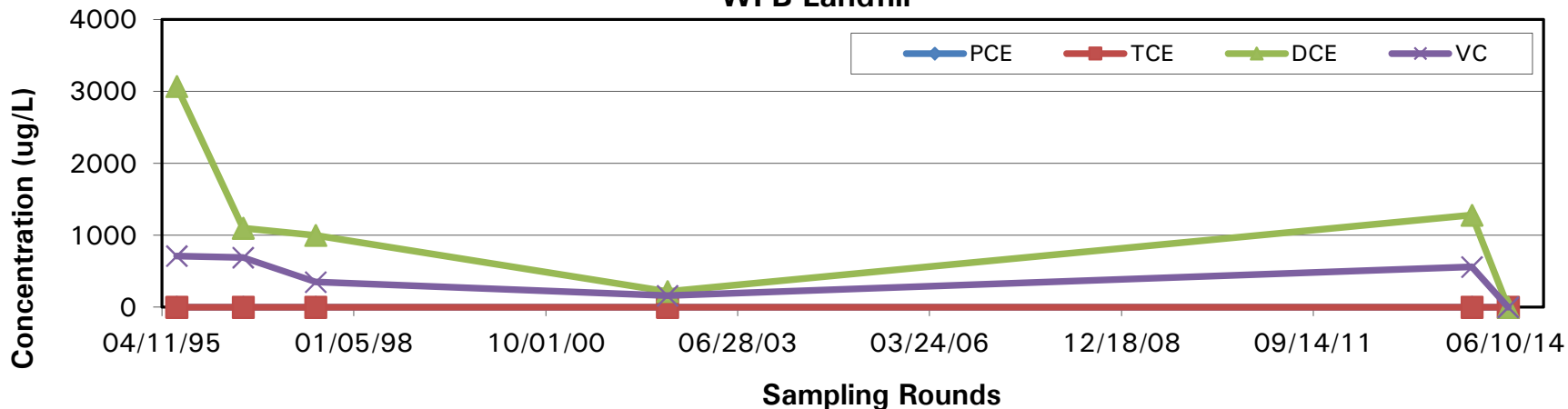




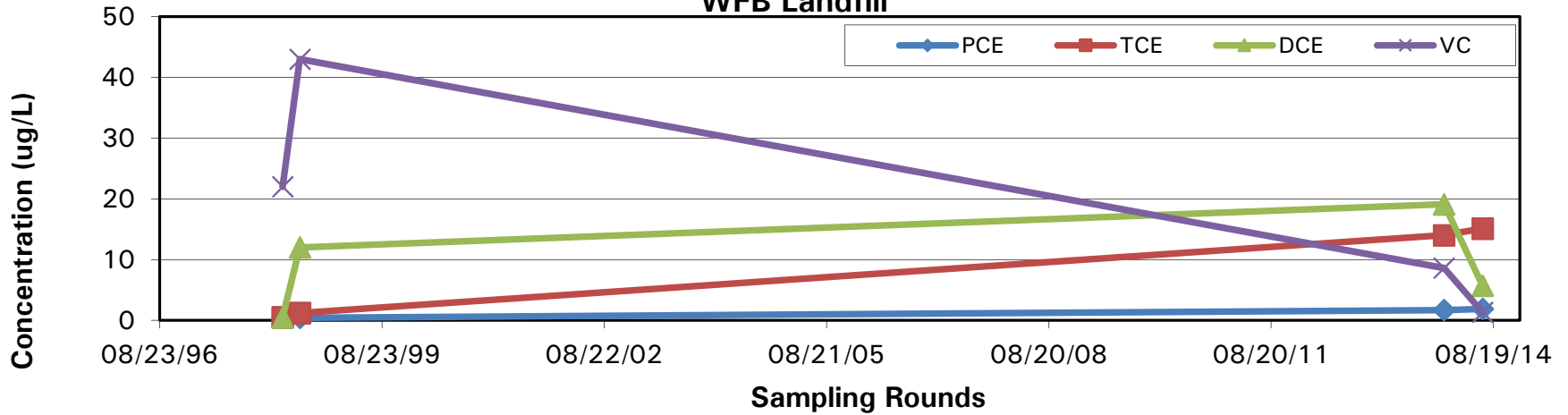
**MW - 25**  
**CVOC Concentration vs Time**  
**WFB Landfill**



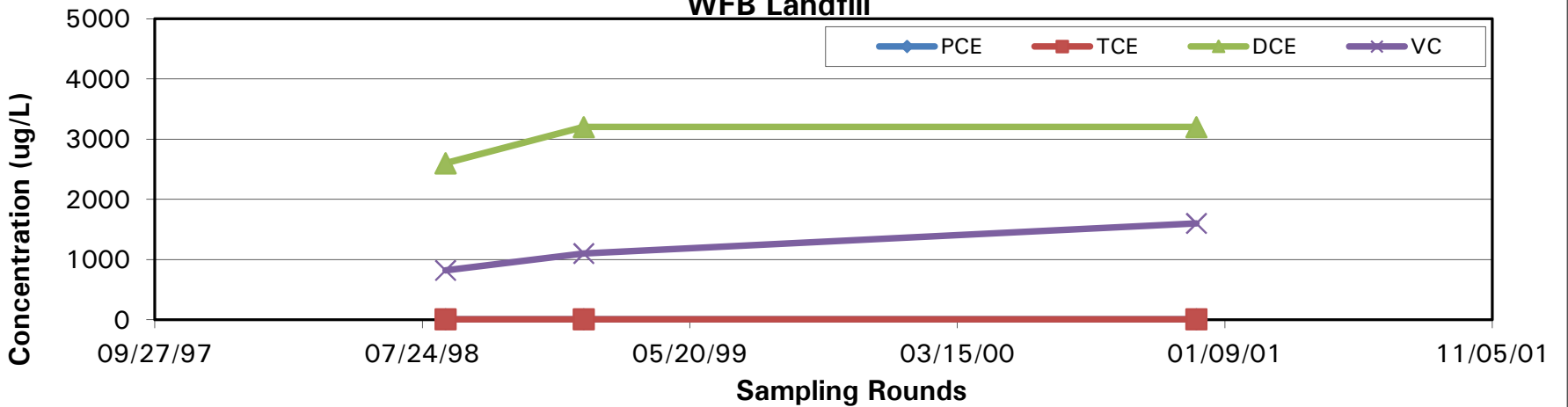
**MW - 26**  
**CVOC Concentration vs Time**  
**WFB Landfill**



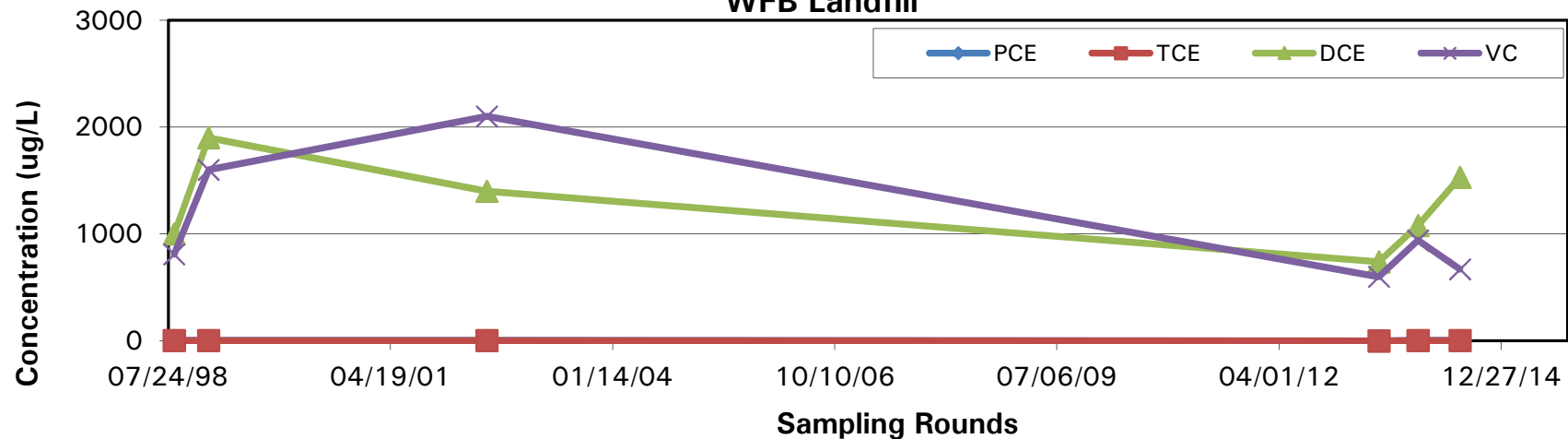
**W - MW - 5S**  
**CVOC Concentration vs Time**  
**WFB Landfill**



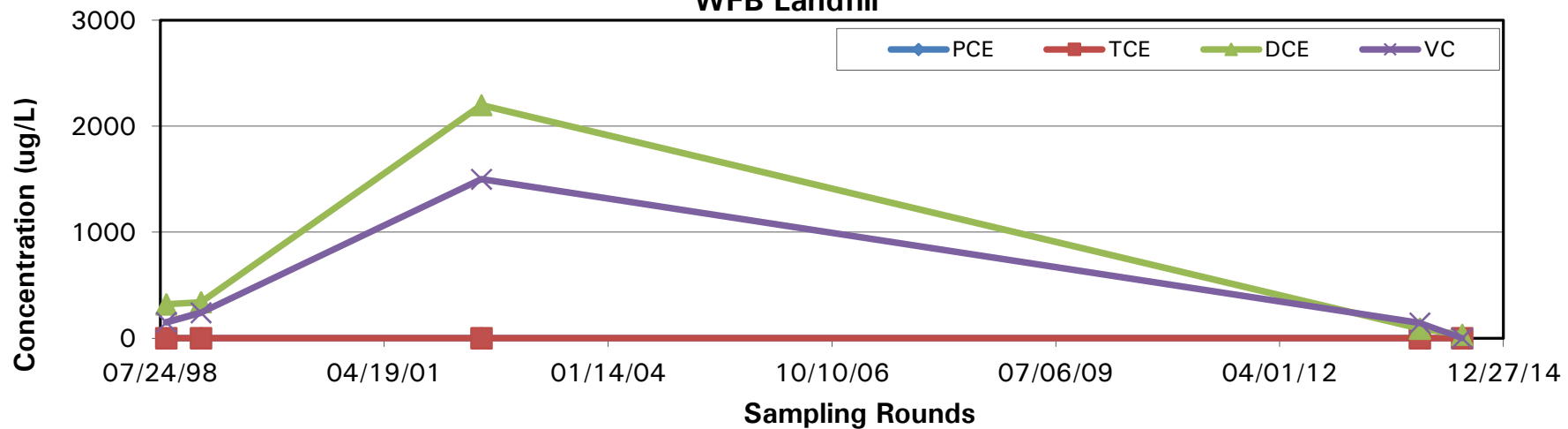
**MPS - P1 (Destroyed)**  
**CVOC Concentration vs Time**  
**WFB Landfill**



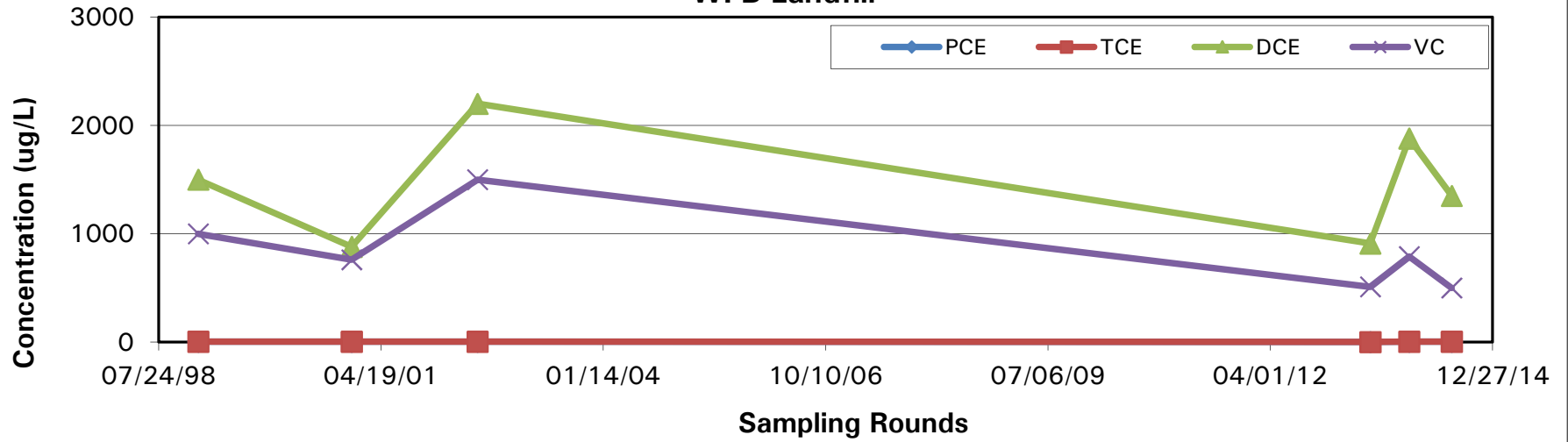
**MPS - P2**  
**CVOC Concentration vs Time**  
**WFB Landfill**



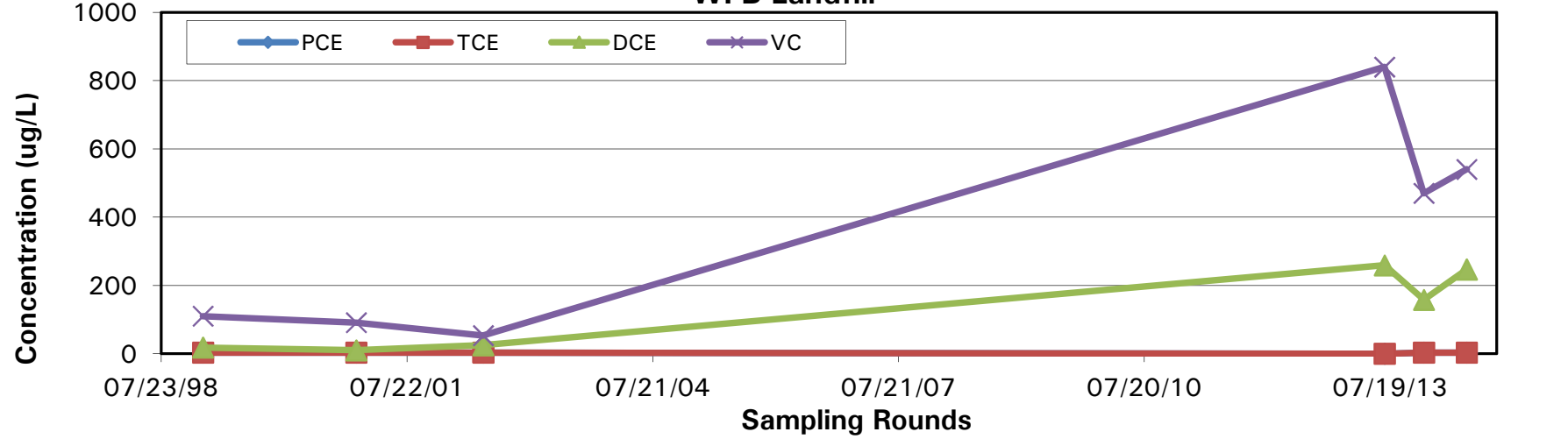
**MPS - P3**  
**CVOC Concentration vs Time**  
**WFB Landfill**



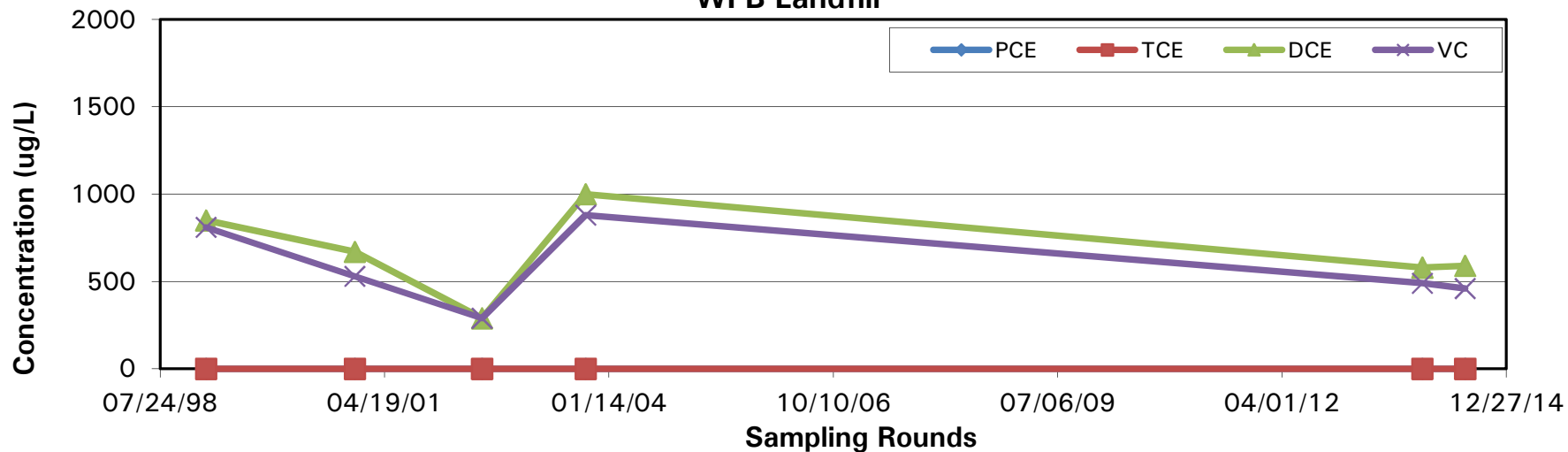
**MPS - P4**  
**CVOC Concentration vs Time**  
**WFB Landfill**



**MPS - P5**  
**CVOC Concentration vs Time**  
**WFB Landfill**



**MPS - P6**  
**CVOC Concentration vs Time**  
**WFB Landfill**



**MPS - P7**  
**CVOC Concentration vs Time**  
**WFB Landfill**

