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2014 Annual Periodic Review Report

Hyde Park Landfill
Niagara Falls, New York

Prepared for: Glenn Springs Holdings, Inc.

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Niagara Falls, New York 14304

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Partners in Sustainability

Executive Summary

The following report describes the Operation, Maintenance, and Monitoring (OM&M) activities for 2014 at the Hyde Park Landfill Site (Site) located at 4825 Hyde Park Boulevard, Niagara Falls, Town of Niagara, Niagara County, New York. The Site covers approximately 22.8 acres and consists of two parcels owned by Occidental Chemical Corporation (OCC). One encompasses the landfill itself at 20.9 acres, and the other contains the treatment system at 1.9 acres. Management of the Site is performed on behalf of OCC by Glenn Springs Holdings, Inc. (GSH), an affiliate of OCC. Beginning on October 1, 2008, GSH contracted Conestoga-Rovers & Associates (CRA) to perform OM&M and reporting activities for the Site under the direct supervision of GSH.

During 2014, the remedial system components at the Site performed as designed. The Source Control (SC), Overburden Requisite Remedial Technology (RRT), and Bedrock RRT Systems removed 32.4 million gallons of groundwater from the Site and surrounding formations. Groundwater gradients remained inward, and Flow Zone 9 remained dewatered between the Site and the face of the Niagara River Gorge (Gorge). All aqueous phase liquid (APL) analytes were found below reporting levels in APL Flux Monitoring, indicating no chemical loading to the Gorge seeps. Non-aqueous phase liquid (NAPL) continues to be contained by the Overburden RRT System, with no NAPL being found in overburden monitoring wells (OMWs) outside of the system. Anomalous soil vapor data collected for the Community Monitoring Program did not alter the conclusion that the community continues to be protected by the Site remedial systems. No NAPL was shipped off Site for disposal in 2014.

The 2014 data indicate that there has been no significant change in chemical and hydrogeological conditions at the Site. The SC System continues to collect Site groundwater and NAPL, but at levels insignificant compared to that of the Overburden and Bedrock RRT Systems. Because of the SC wells ineffectiveness, GSH recommends that the pumping of SC wells be reduced or eliminated.

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Section 1.0 Introduction

The following Periodic Review Report (PRR) describes the Operation, Maintenance, and Monitoring (OM&M) activities for 2014 at the Hyde Park Landfill Site (Site) located at 4825 Hyde Park Boulevard, Niagara Falls, Town of Niagara, Niagara County, New York (Figure 1.1). Management of the Site is performed on behalf of Occidental Chemical Corporation (OCC) by Glenn Springs Holdings, Inc. (GSH), an affiliate of OCC. Beginning on October 1, 2008, GSH contracted Conestoga-Rovers & Associates (CRA) to perform OM&M and reporting activities for the Site under the direct supervision of GSH.

1.1 Site Location

The Site occupies approximately 23 acres in the northwest corner of the Town of Niagara, New York, adjacent to the Town of Lewiston to the north and the City of Niagara Falls to the west. The location of the Site is shown on Figure 1.1. The Site is bounded by Hyde Park Boulevard to the west, Power Authority Service Road (a New York Power Authority [NYPA] access road) to the north, Ferro Electronic Materials, Inc. (formerly TAM Ceramics) to the south, and vacant property owned by Armand Cerrone, Inc. to the east. The Site is located approximately 2,000 feet east of the Niagara River Gorge (Gorge).

1.2 Site History

The Hyde Park Landfill is an inactive disposal facility where approximately 80,000 tons of liquid, sludge, and debris chemicals, primarily chlorobenzenes, were placed from 1953 until 1975 when the landfill was closed. In 1978, OCC capped the landfill with clay. In 1981, OCC, the State of New York representing the New York State Department of Environmental Conservation (NYSDEC), and the United States of America representing the United States Environmental Protection Agency (USEPA) entered into a "Stipulation and Judgment Approving Settlement Agreement" (Settlement Agreement). Investigations as part of the approved Settlement Agreement indicated significant chemical migration into the bedrock, including the presence of non-aqueous phase liquid (NAPL). The USEPA added the Site to the National Priorities List in September 1983. Further negotiations among OCC, NYSDEC, and USEPA resulted in a second court agreement; the "Stipulation on Requisite Remedial Technology Program" (November 1985) (RRT Stipulation). In August 2010, OCC issued a "Declaration of Restrictive Covenants and Environmental Easement" (Environmental Easement) granting an easement on the property to the Town of Niagara, guaranteeing that the institutional and engineering components of the Remedial Action (RA) will be maintained and transferred with ownership of the property.

In July 2011, NYSDEC reclassified the Site on the Registry of Inactive Hazardous Waste Disposal Sites to a Class 4 site, indicating that it no longer presents a significant threat to public health

and/or the environment. Effective October 23, 2013, USEPA deleted the Site from the National Priorities List. As published in the Federal Register, Vol. 78, No. 205, Pg. 63099, "The EPA and the State of New York, through the Department of Environmental Conservation, have determined that all appropriate response actions under CERCLA, other than operation, maintenance, and 5-year reviews, have been completed."

1.3 Remedial Goals

The original monitoring and remedial performance requirements for the Site were defined in the 1985 RRT Stipulation. Extensive remediation, investigation, and evaluation of the Site have been completed and documented in previous reports to the NYSDEC and USEPA since the RRT Stipulation was approved. The current monitoring and reporting requirements are detailed in the NYSDEC and USEPA-approved 2006 Performance Monitoring Plan (PMP). A checklist of all tasks required by the PMP is provided in Table 1.1. Action levels specified in the PMP are shown in the applicable analytical data tables.

1.4 Remedial Components and Monitoring

Site remedial components consist of the following:

- Source Control (SC) System, shown on Figure 1.2
- Overburden RRT System, shown on Figure 1.3
- Bedrock RRT System, shown on Figure 1.4

All groundwater collected by these components is treated in an on-Site granular activated carbon treatment system before discharge to the publicly owned treatment works (POTW) under Niagara Falls Water Board Significant Industrial User (SIU) Permit #49. NAPL decanted from the groundwater is stored on Site until a sufficient quantity is available for transport to an approved hazardous waste disposal facility.

The PMP requires annual evaluation of the effectiveness of these components using the following three monitoring programs:

- Overburden Monitoring Program, locations shown on Figure 1.5
- Bedrock Monitoring Program, locations shown on Figure 1.6
- Community Monitoring Program, locations shown on Figure 1.7

Section 2.0 Institutional and Engineering Controls

The required Institutional and Engineering Controls are listed in the completed Institutional and Engineering Controls Certification Form included as Appendix A. Institutional controls include restrictions on uses of Site land, buildings, groundwater, surface water, and requires the implementation of both a Monitoring Plan and an Operation and Maintenance Plan. The most recent versions of these documents are the NYSDEC and USEPA approved 2006 PMP and the 2014 Hyde Park Collection and Aqueous Phase Leachate (APL) Treatment System Operation and Maintenance Manual (O&M Manual). Engineering controls include groundwater containment through a leachate collection system, collected groundwater treated on Site, a maintained cover system on the landfill, and restricted Site access controlled through perimeter fencing.

Section 3.0 Site Monitoring Programs and Results

3.1 Overburden Monitoring Program

The Overburden Monitoring Program involves the monitoring of the SC wells and the Overburden RRT System. The SC wells are a series of production wells installed within the landfill to recover NAPL, while the Overburden RRT System is comprised of a pair of French-drain systems designed to control the lateral migration of dissolved phase constituents and NAPL in the overburden.

The 2014 performance monitoring data for the overburden systems are presented as follows:

SC System Well Locations	Figure 1.2
2014 SC Well Pumping Summary	Table 3.1
Overburden RRT System	Figure 1.3
2014 Overburden Quarterly Groundwater Elevation Summary	Table 3.2
2014 Overburden NAPL Presence Monitoring	Table 3.3
2014 Overburden Collection Systems Monthly Average Flow Summary	Table 3.4

3.2 Bedrock Monitoring Program

The Bedrock Monitoring program includes the Lockport Bedrock APL and NAPL Plume Containment Systems and the Bloody Run Creek Monitoring Program. The Lockport Bedrock APL and NAPL Plume Containment Systems consist of 19 purge wells that control lateral migration of dissolved phase constituents and NAPL in the bedrock, while the Bloody Run Creek Monitoring Program ensures that Site-related parameters are not adversely impacting groundwater in the upper bedrock subsequent to the remediation of Bloody Run Creek. The

Group B Bedrock Piezometers are sampled on a quarterly basis. Piezometers associated with the Lockport Bedrock APL and NAPL Plume Containment Systems are sampled on a routine basis in two groups. The Group A Bedrock Piezometers are sampled every fifth quarter, which occurred in the first quarter of 2014. The Bloody Run monitoring wells are sampled every 5 years, with the next event planned for 2016.

The 2014 performance monitoring data for the bedrock systems are presented as follows:

Bedrock Monitoring Program Locations	Figure 1.4
2014 Bedrock Quarterly Water Level Elevation Summary - Piezometers	Table 3.5
2014 Bedrock Purge Well Monthly Flow Rate Summary	Table 3.6
Analytical Results Summary: Quarterly Group B Bedrock Piezometer Sampling	Tables 3.7a-d
Analytical Results Summary: Fifth Quarter Group A Bedrock Piezometer Sampling, First Quarter 2014	Table 3.8
Bloody Run Monitoring Well Locations	Figure 3.1

The PMP also specifies water level setpoints for each of the purge wells in the Bedrock RRT System. Only major issues associated with achieving these setpoints are discussed in this PRR, while the day-to-day maintenance of these set points was previously presented in the 2014 Quarterly Operations Reports.

In addition to maintaining water levels within target setpoint ranges in the purge wells, the water level in flow zone FZ-09 in the area between the landfill and the APL purge wells (APW-1 and APW-2) is to be maintained at an elevation of 526 feet above mean sea level (AMSL) or lower. This level ensures that the FZ-09 outcrop along the NYPA access road remains unsaturated. Piezometer PMW-1M-09 is used to monitor the FZ-09 water level elevation in this area. A pressure transducer installed in PMW-1M-09 has been programmed to collect water level data at 1-hour intervals. These continuous water level elevation data were reported in the 2014 Quarterly Operation Reports.

3.3 Community Monitoring Program

The Community Monitoring program was developed to ensure that the public is not being adversely exposed to Site-related parameters. The Community Monitoring program includes the Gorge Face Seep Program, the APL Flux Monitoring Program, and the Residential Community Monitoring Program. The Gorge Face Seep Program involves biennial inspections of the Gorge to ensure that Site-specific parameters are not discharging to a publicly accessible area. The APL Flux Monitoring Program ensures that the mass loading via groundwater discharged to the Gorge is less than the defined Flux Action Level. The Residential Community

Monitoring Program ensures that residents in the area are not adversely exposed to Site-related constituents in the groundwater or from soil vapors above the groundwater.

The 2014 performance monitoring data for the community monitoring are presented as follows:

APL Flux Well Locations	Figure 3.2
2014 Analytical Results Summary: Annual AFW Composite	Table 3.9
Community Monitoring Locations	Figure 1.7
2014 Quarterly Hydraulic Gradient Summary	Table 3.10
2014 Community Monitoring Well Soil Vapor Monitoring	Table 3.11

Section 4.0 Site Operation and Maintenance

Maintaining the Site remedial elements is critical to the Site's remedial performance. Therefore, daily, weekly, and monthly inspections of hydraulic and chemical monitoring points, the landfill cap, and the security fence surrounding the landfill have been included in the PMP. Although not required by the PMP, the monitoring program for the Site groundwater treatment system is discussed briefly in this report. Full details on Site operation and maintenance activities are presented in the 2014 O&M Manual.

Analytical results from the treatment system monitoring program have been presented previously in the 2014 Quarterly Operations Reports. These include the following:

- Daily treated effluent total water flows and pH
- Weekly treated effluent APL sampling
- Quarterly treated effluent APL sampling

The following treatment system monitoring was also conducted in 2014:

Quarterly NAPL Decanter Volume Monitoring	Table 4.1
Weekly Carbon Interstage APL Sampling	Table 4.2
Quarterly Leachate Feed APL Sampling	Table 4.3
Quarterly Sac Bed Interstage APL Sampling	Table 4.4

The 2006 PMP also requires weekly fence inspections, annual well and piezometer inspections, and annual landfill cap inspections. All of the required inspections were performed in 2014.

The inspections did not identify any issues of concern beyond routine maintenance items. Records of these inspections are maintained at the Site and are available upon request, in accordance with the 2006 PMP.

Section 5.0 Evaluation and Conclusions

5.1 Overburden Monitoring Program

There were no deviations from the Overburden Monitoring Program (OMP) in 2014 and monitoring was conducted in accordance with the 2006 PMP. The results of the OMP are discussed below and summarized in Tables 3.1 through 3.4.

5.1.1 Source Control System

The 2014 SC well NAPL thickness and pumping data is summarized in Table 3.1. As prescribed by the 2006 PMP, this observed NAPL thickness provides an estimate of how much NAPL was removed during 2014 pumping operations. The NAPL thickness measurements result in an estimated NAPL volume of 18.3 percent of the total volume of APL/NAPL purged. Based on this, the amount of NAPL recovered in 2014 was approximately 48 gallons. Historical NAPL levels and percentages are summarized in Table 5.1. An annual summary of the historical data is shown on Chart 5.1.

5.1.2 Overburden Groundwater Elevations

The overburden groundwater elevation data, provided in Table 3.2, were used to generate potentiometric surface maps that were presented in the 2014 Quarterly Operations Reports. These potentiometric surface maps indicated hydraulic containment for every quarter of 2014.

5.1.3 Overburden NAPL Presence Monitoring

NAPL presence checks are to be completed annually in the Overburden Barrier Collection System (OBCS), Overburden Monitoring Wells (OMWs), and the OBCS manholes. The NAPL presence monitoring data from the OMWs and manholes are presented in Table 3.3. The data indicate that NAPL was present in 4 of the 17 manholes monitored (MH-29, MH-30, MH-31, and MH-32). These manholes are located at the southwest corner of the landfill. The data also indicate that NAPL is not present in any of the overburden groundwater monitoring wells. These wells are located outside of the OBCS to the south, west, and northwest of the five manholes with NAPL present (see Figure 1.3). The lack of NAPL presence in these OMW wells indicates that overburden NAPL is contained within the boundaries of the OBCS and is not bypassing the OBCS.

5.1.4 Overburden RRT System Flow Rates

The OBCS and Existing Barrier Collection System (EBCS) monthly average flow rates, presented in Table 3.4, indicate seasonal fluctuations in flow rates with the highest average flow rates occurring during the winter and spring months.

5.1.5 Overburden Monitoring Conclusions

Based on the overburden data collected in 2014 and shown in Tables 3.1 through 3.4, the SC and Overburden RRT Systems are operating as designed, and overburden containment is being achieved.

5.2 Bedrock Monitoring Program

There were no deviations from the Bedrock Monitoring Program (BMP) in 2014 and monitoring was conducted in accordance with the 2006 PMP. The results of the BMP in 2014 are discussed below and summarized in Tables 3.5 through 3.8.

5.2.1 Bedrock Groundwater Elevations

The bedrock flow zone groundwater elevation data, presented in Table 3.5, were used to generate groundwater potentiometric surface maps for each of the monitored flow zones. These maps have been presented previously in the 2014 Quarterly Operations Reports. The potentiometric surface maps for each monitored flow zone during each quarter of 2014 indicated containment.

5.2.2 Bedrock RRT System Flow Rates and Setpoints

The 2014 bedrock purge well monthly average flow rate data, presented in Table 3.6, is consistent with historic flow rates.

Maintenance of operating water level setpoints by each of the purge wells has been discussed in the 2014 Quarterly Operations Reports. These reports indicate that, with the exception of the maintenance issues identified, the water levels were maintained within target setpoint ranges at each of the purge wells throughout 2014.

Based on the hourly data from the PMW-1M-09 pressure transducer, the water level elevation in this area of FZ-09 was maintained at an average elevation of 517.92 feet AMSL throughout 2014, with a maximum elevation observed of 521.84 feet AMSL. The average and maximum elevations were below the 526 feet AMSL action elevation setpoint. The data were

corroborated by the quarterly hand water level measurements of PMW-1M-09 presented in Table 3.5, which show an average water level of 517.26 feet AMSL in 2014.

5.2.3 Bedrock Analytical Results

In accordance with the 2006 PMP, quarterly groundwater samples were collected from the Group B Bedrock piezometers in 2014. The first quarter groundwater sampling event also corresponded with the annual (5th quarter Group "A" Bedrock piezometer sampling) event as defined in the PMP. This combined sampling event was performed during February/March 2014.

The 2014 quarterly Group "B" Bedrock piezometer sampling results are presented in Tables 3.7a through 3.7d. Samples were analyzed for the Site-specific list of organic acids. Site-specific screening levels presented in the PMP have been added to these tables and exceedances of these values have been highlighted.

The 5th quarter sampling results for the Group "A" Bedrock piezometers are presented in Table 3.8. Analyses include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), organic acids, and sulfate. The Site-specific screening levels presented in the PMP have been added to this table and exceedances of these values have been highlighted.

The 2014 data for the quarterly Group "B" Bedrock piezometer and the 5th quarter Group "A" Bedrock piezometer sampling events indicate that samples from a number of locations exhibited concentrations of Site Indicator Organics (SIOs) that exceeded the Site-specific screening levels, as summarized below:

Site Organic Indicators	***Location Exceeding Site-specific Screening Level***
Chlorendic Acid	AGW-1M-07, AGW-1M-09, AGW-1U-06, B2L-11, D1M-09, D1U-05, D1L-11, D2M-09, F2U-02, F2U-04, G6-04, G6-05, H2U-02, H5-09, J6-07
Benzene	B2L-11, D1L-11, E6-09, E6-11, F2L-11, F6-11, G1L-11, G6-04, G6-05, G6-11, H2M-09, H5-09, J6-11
1,1,2,2-tetrachloroethane	G6-01, G6-02, G6-04
Tetrachloroethene	G6-01, G6-02
Trichloroethene	G6-01, G6-02, G6-04, G6-05, H2M-06
Vinyl Chloride	AGW-1U-06, G6-01, G6-02, G6-04, G6-05, H2U-02
cis-1,2-Dichloroethene	G6-05

The above exceedances are generally consistent with results from the quarterly Group "B" piezometer and 5th quarter Group "A" Bedrock piezometer sampling events conducted in previous years.

In addition to the above-noted exceedances, there were also a number of locations that exhibited concentrations of non-SOI parameters that exceeded the Site-specific screening levels, as summarized below:

Non-Site Organic Indicators	***Location Exceeding Site-specific Screening Level***
Chloroform	G6-05
1,1,2-Trichloroethane	G6-05

The parameters identified at G6-05 were also present at this location during the 2003, 2007, 2011, and 2012 sampling events. However, this well is located upgradient of the Site and would not be indicative of potential migration of Site materials.

The Bloody Run Creek Monitoring Program is required to be conducted every 5 years. The next sampling event is scheduled to be conducted in 2016.

The bedrock groundwater data collected in 2014 demonstrate that the APL and NAPL purge well systems are operating properly and containment is being maintained in each of the flow zones. No changes to the bedrock purge or monitoring systems are recommended at this time.

5.2.4 Bedrock Monitoring Conclusions

The bedrock monitoring data collected in 2014 demonstrate that the APL and NAPL purge well systems are operating properly, and bedrock containment is being achieved in each of the flow zones.

5.3 Community Monitoring Program

There was one deviation from the Community Monitoring Program in 2014. Although soil vapor monitoring measured readings above the action level of 0.050 part per million volume (ppmv), the follow-up sampling required by the PMP was inadvertently omitted due to technician oversight and sampling error. This issue and the corrective actions are further discussed in Section 5.3.3 below, otherwise monitoring was conducted in accordance with the 2006 PMP. The monitoring results discussed below are summarized in Tables 3.9 through 3.11.

5.3.1 APL Flux Monitoring Program

The APL plume flux composite sampling results are presented in Table 3.9. None of the APL plume flux parameters were detected above their respective reporting levels. As a result, calculation of the flux to the Gorge is not required.

5.3.2 Quarterly Hydraulic Gradient Summary

Table 3.10 presents a summary of water level elevations and vertical hydraulic gradients at the paired community monitoring wells for each quarter of 2014. Downward vertical hydraulic gradients were maintained at each of the well pairs throughout the year.

5.3.3 Soil Vapor Monitoring

Results of soil vapor monitoring are presented in Table 3.11. Four of the five locations monitored exhibited total VOC concentrations greater than 0.050 ppmv above background during the September 2014 monitoring. According to Section 5.3.2 of the 2006 PMP:

> *Vapor monitoring will be performed in the overburden community monitoring wells according to the schedule presented on Table 2.1. The monitoring has been scheduled to occur in the third quarter (July, August, or September) when temperature is high and volatilization potential is the greatest. Vapor monitoring will be performed according to FP-05a using an organic vapor analyzer (OVA) capable of detecting 0.010 parts per million by volume (ppmv) or lower, total VOCs. Should the stabilized OVA reading exceed 0.050 ppmv, a groundwater quality sample will be scheduled and collected from the well within two weeks and analyzed for the parameters listed in Table 21. The sampling results will be reported to the Agency within 30 days of sample collection. If necessary, additional action may be taken after consultation with the Agencies. Monitoring results will also be reported in the Annual Report.*

Despite the vapor monitoring exceeding the 0.050-ppmv level set forth in the 2006 PMP, the follow-up sampling did not occur. Although the follow-up sampling was not completed, there is reason to suspect that the elevated readings themselves are erroneous. During vapor monitoring activities, the field team noted that the instrument had to be cleaned due to groundwater being drawn into the instrument from the vapor tube. In addition, a comparison of the 2014 data relative to historical data indicates that typically OVA readings are non-detect at all monitoring locations with the exception of a detection of 0.068 ppmv in 2008 at one location. The 2014 OVA readings ranged from 0.064 ppmv to 5.817 ppmv at five of the six locations (the fifth location was the first location to be monitored, and it was non-detect for the entire 10 continuous minutes of monitoring). The average VOC readings ranged from 0.244 ppmv to 2.168 ppmv (excluding the location with non-detect measurements). Based on this comparative analysis, it was concluded that the data were suspect and unusable. Although the data were concluded to be unusable, follow-up verification sampling was not completed. To prevent another such omission, the field procedure in the PMP (FP-05a) for the community well vapor monitoring has been revised. The revised procedure is presented in Appendix B. This procedure did not identify the 0.050-ppmv exceedance level, or any actions to be

implemented should readings above 0.050 ppmv be measured. The procedure now includes a form to be used in the field to record the measurements. Both the procedure and form identify the 0.050-ppmv exceedance level and actions to be implemented should readings above 0.050 ppmv be measured. This revised procedure will be included in an updated PMP to be submitted to NYSDEC and USEPA in 2015.

GSH will continue to monitor the 2015 soil vapor results closely and respond with the follow-up groundwater sampling called for in the 2006 PMP if an exceedance occurs and is verified.

5.3.4 Gorge Face Seep Survey

The biennial Gorge Face Seep Survey was last conducted on May 30, 2013. The next Gorge Face Seep Survey will be conducted in the summer of 2015.

5.3.5 Community Monitoring Conclusions

The community monitoring data collected in 2014 demonstrate that the community is being properly protected by Site remedial systems.

5.4 Site Operations and Maintenance

There were no deviations in 2014 from the treatment system monitoring specified in the 2006 PMP in 2014. Ongoing operations and maintenance issues are discussed in the 2014 Quarterly Operations Reports. These reports, in addition to the data presented in Tables 4.1 to 4.4, demonstrate that the Site continues to function as designed.

Section 6.0 Recommendations

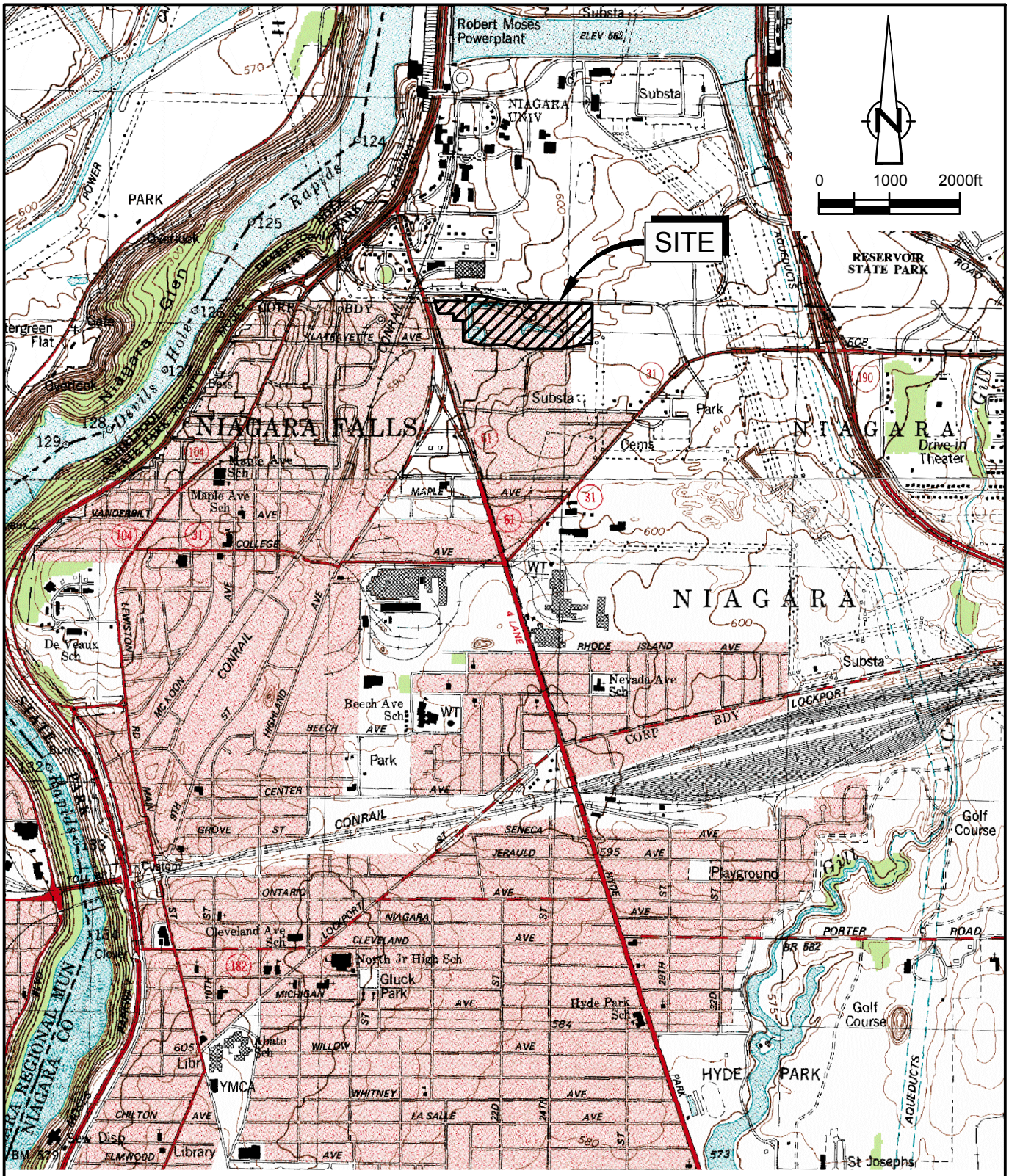
The 2010, 2011, 2012, and 2013 Site Remedial Performance Evaluations (SRPEs) recommended that monthly purging of the SC wells and subsequent water level and NAPL thickness measurements be discontinued. USEPA and NYSDEC have yet to approve this recommendation. GSH has reviewed this recommendation based on data collected in 2014 as discussed below.

From 2009 to 2014, monthly water level and NAPL thickness measurements were obtained, and the total gallons purged per month were recorded. A summary of the SC well pumping from 2009 through 2014 is presented in Table 5.1 and summarized on Chart 5.1. An annual summary of the APL and/or NAPL gallons removed during the monthly purging of the SC wells from 2006 through 2014 is as follows:

Year	*Gallons Purged from SC Wells*
2006	799
2007	287
2008	236
2009	173
2010	155
2011	262
2012	339
2013	316
2014	265

The above purge data show that since the implementation of the 2006 PMP, the amount of APL and/or NAPL purged from the SC wells has declined and stabilized. Monthly SC water level and NAPL thickness data from 2009 through 2014 show that the SC wells do not produce significant amounts of NAPL and that combined APL/NAPL production by the SC wells has declined by 66.8 percent since 2006. An estimated 48 gallons of NAPL were collected in 2014, a 12.2-percent reduction from the Site's 55-gallon high in 2011. For comparison, an estimated 6,120 gallons of NAPL have been collected from Site systems as a whole from the last time a decanter was emptied in December 2012 to the end of 2014; a rate of approximately 3,000 gallons per year. In 2014, the SC-Well pumping accounted for an estimated 1.6 percent of this annual rate.

Based on the above, GSH believes that monthly purging of the SC wells and subsequent water level and NAPL thickness measurements should still be discontinued; however, in order to provide additional data to support discontinuation, it is recommended that the frequency be changed to quarterly for 1 year. After one year, the original recommendation to discontinue will be reevaluated.



SOURCE: USGS QUADRANGLE MAPS;
NIAGARA FALLS, NEW YORK - ONTARIO, 1980
LEWISTON, NEW YORK, 1980

figure 1.1

SITE LOCATION
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

01069-D23101(361)GN-WA001 MAR 24/2015

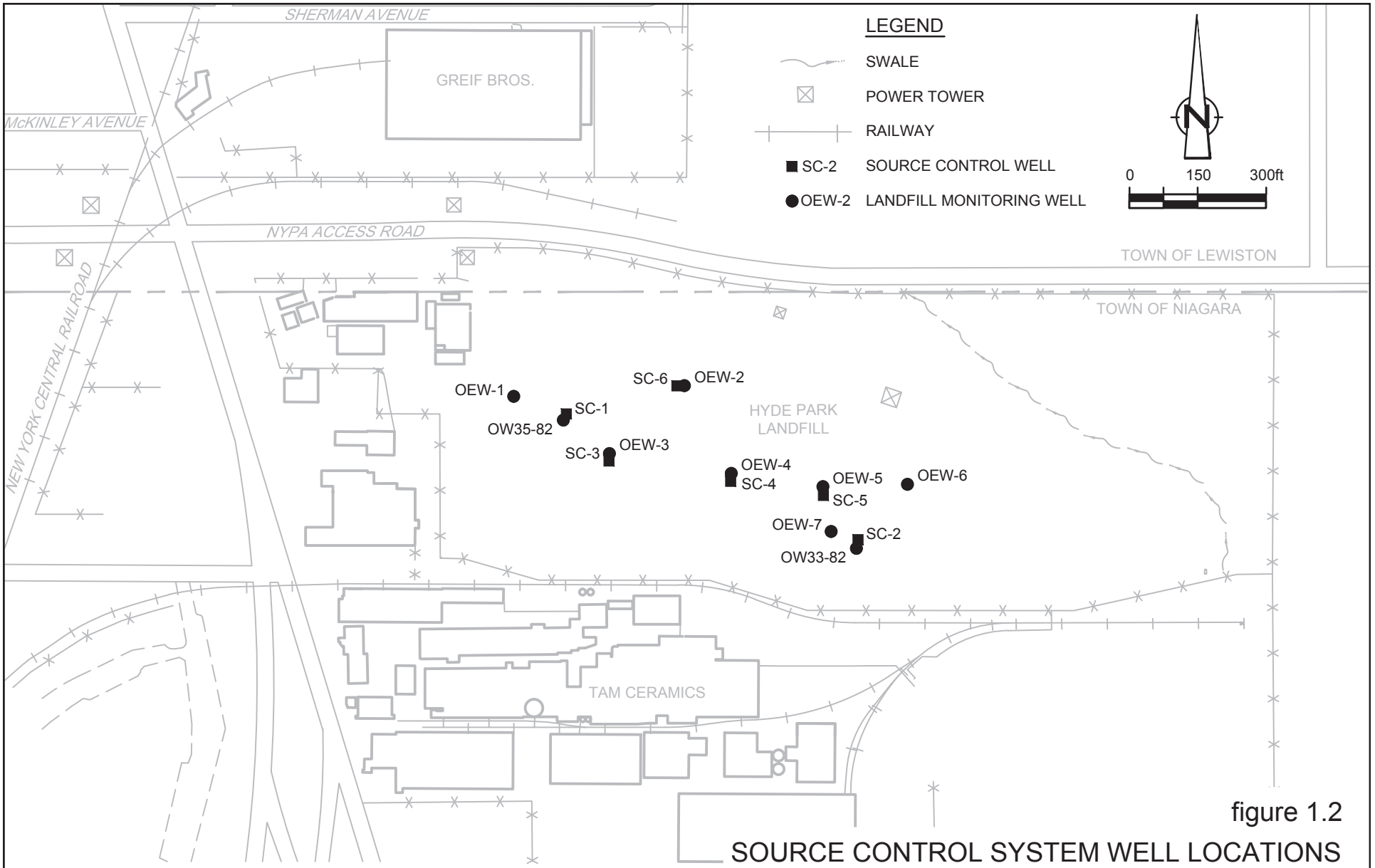


figure 1.2

SOURCE CONTROL SYSTEM WELL LOCATIONS
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

NOTE:
SITE BENCHMARK IS A P.K. NAIL SET IN THE EAST FACE OF A POWER POLE LOCATED AT THE WEST END OF THE EXISTING HYDE PARK LANDFILL, ELEVATION = 612.77. DATUM NOT VERIFIED.

01069-D23101(361)GN-WA002 MAR 19/2015

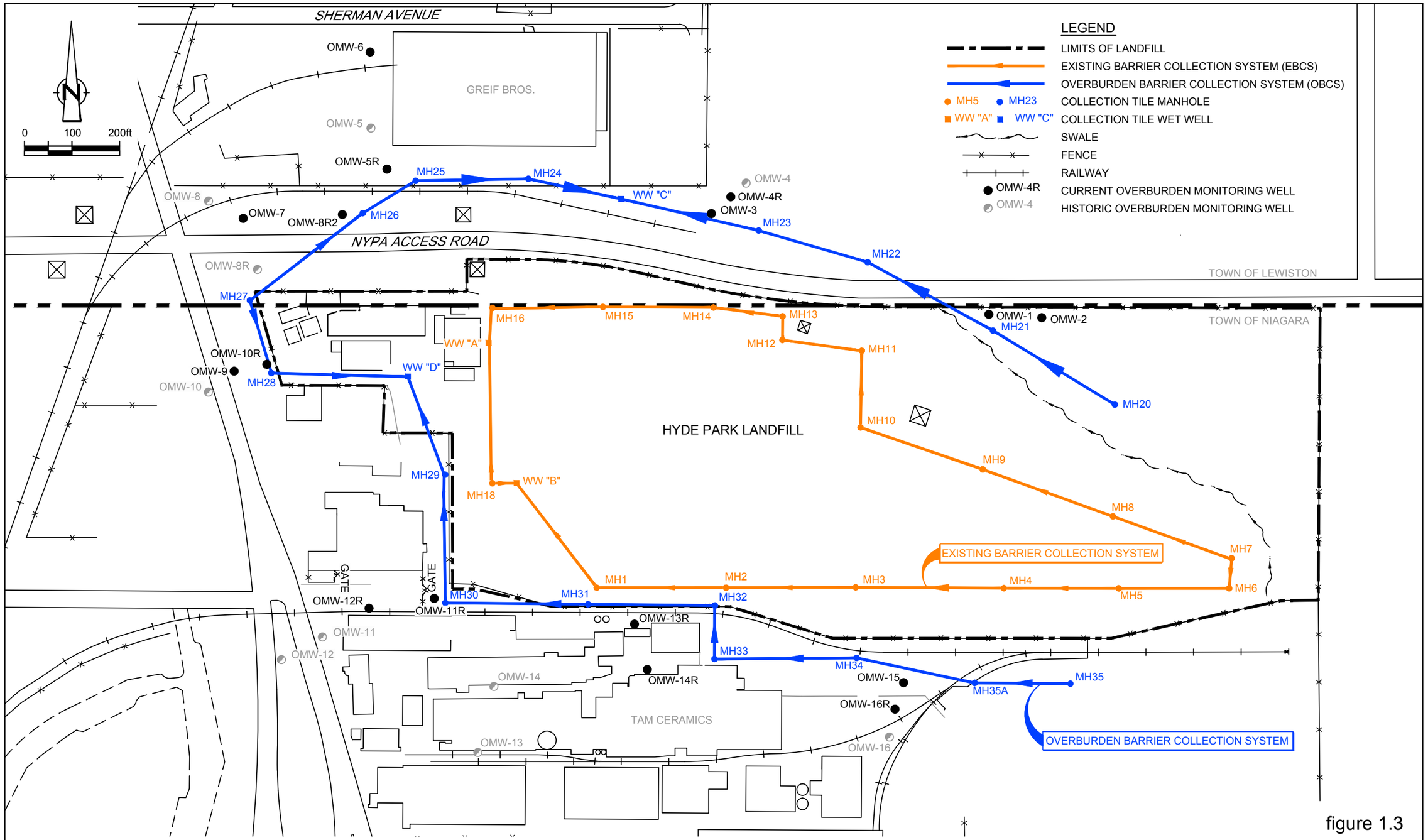
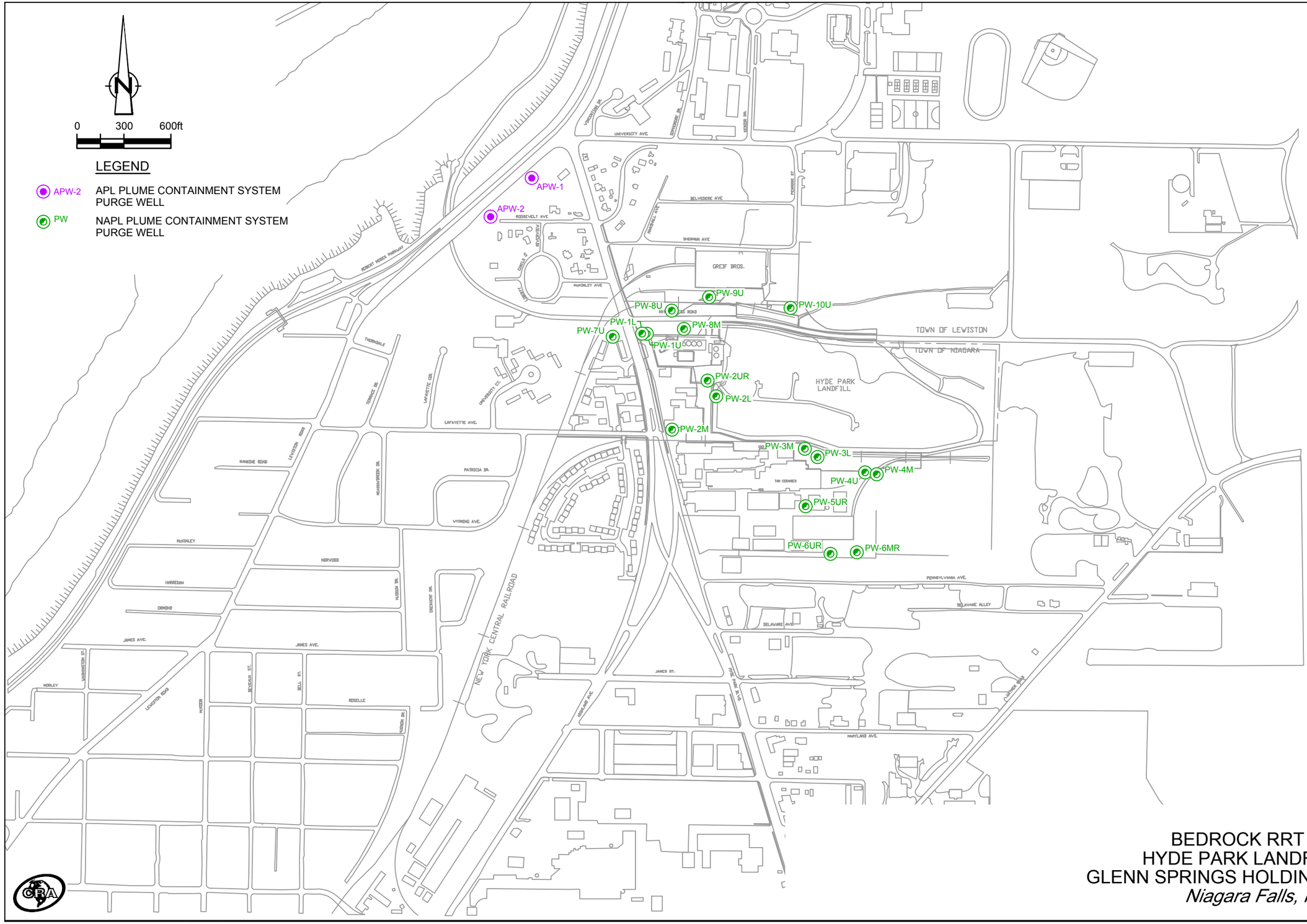


figure 1.3

OVERBURDEN RRT SYSTEM
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

01069-D23101(361)GN-WA003 MAR 24/2015



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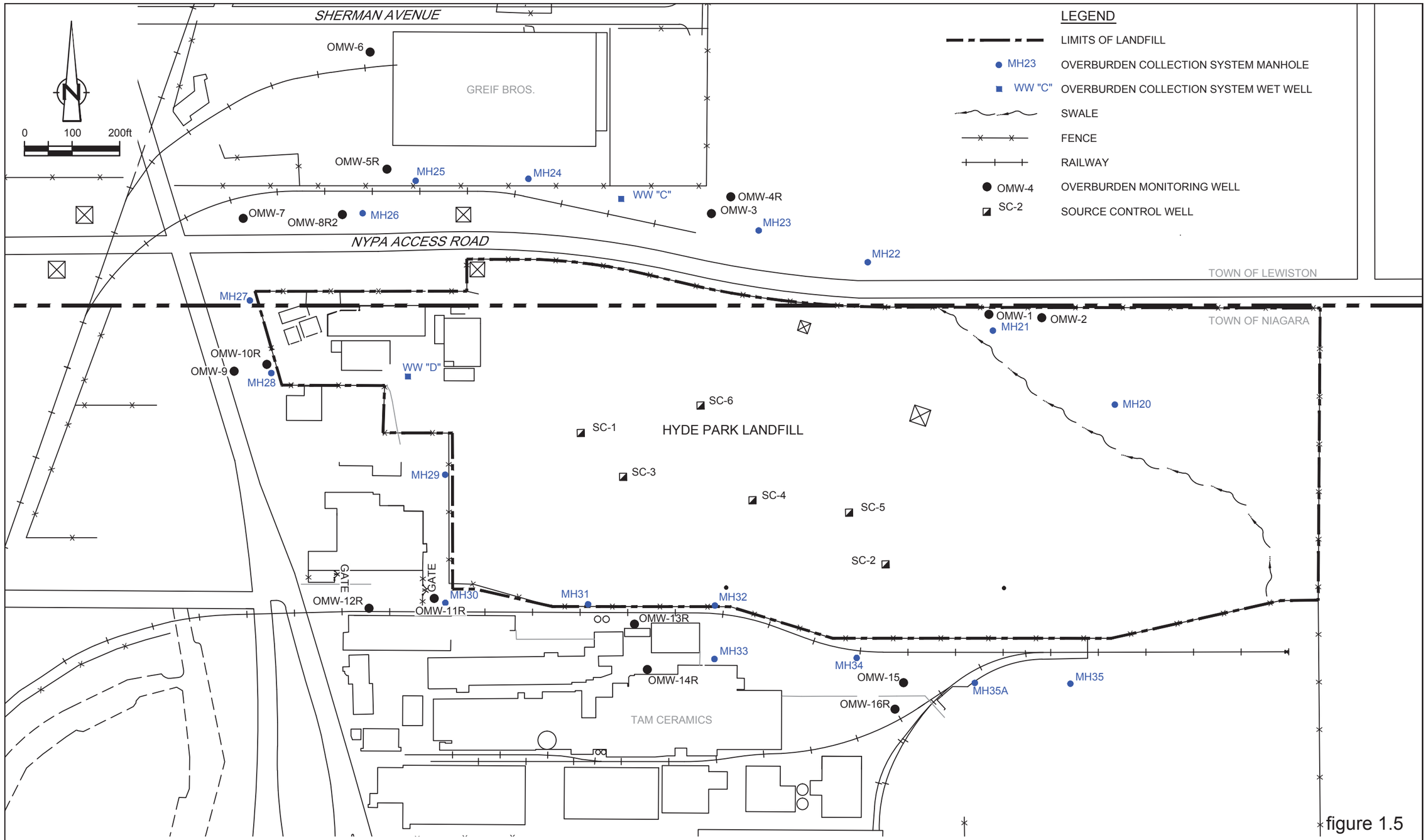


figure 1.5

OVERBURDEN MONITORING PROGRAM
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

01069-D23101(361)GN-WA005 MAR 20/2015

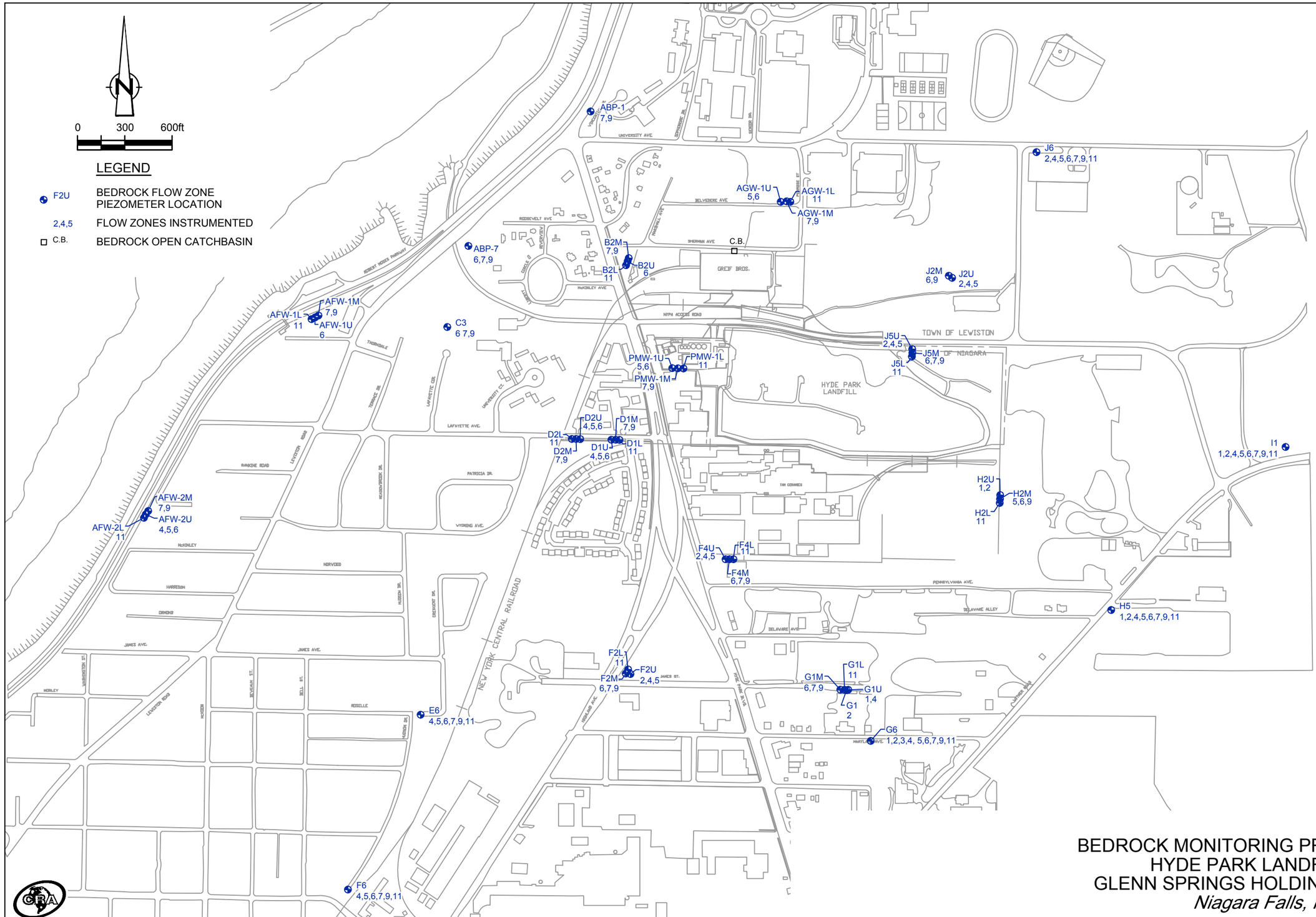


figure 1.6

BEDROCK MONITORING PROGRAM
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

01069-D23101(361)GN-WA006 APR 7/2015

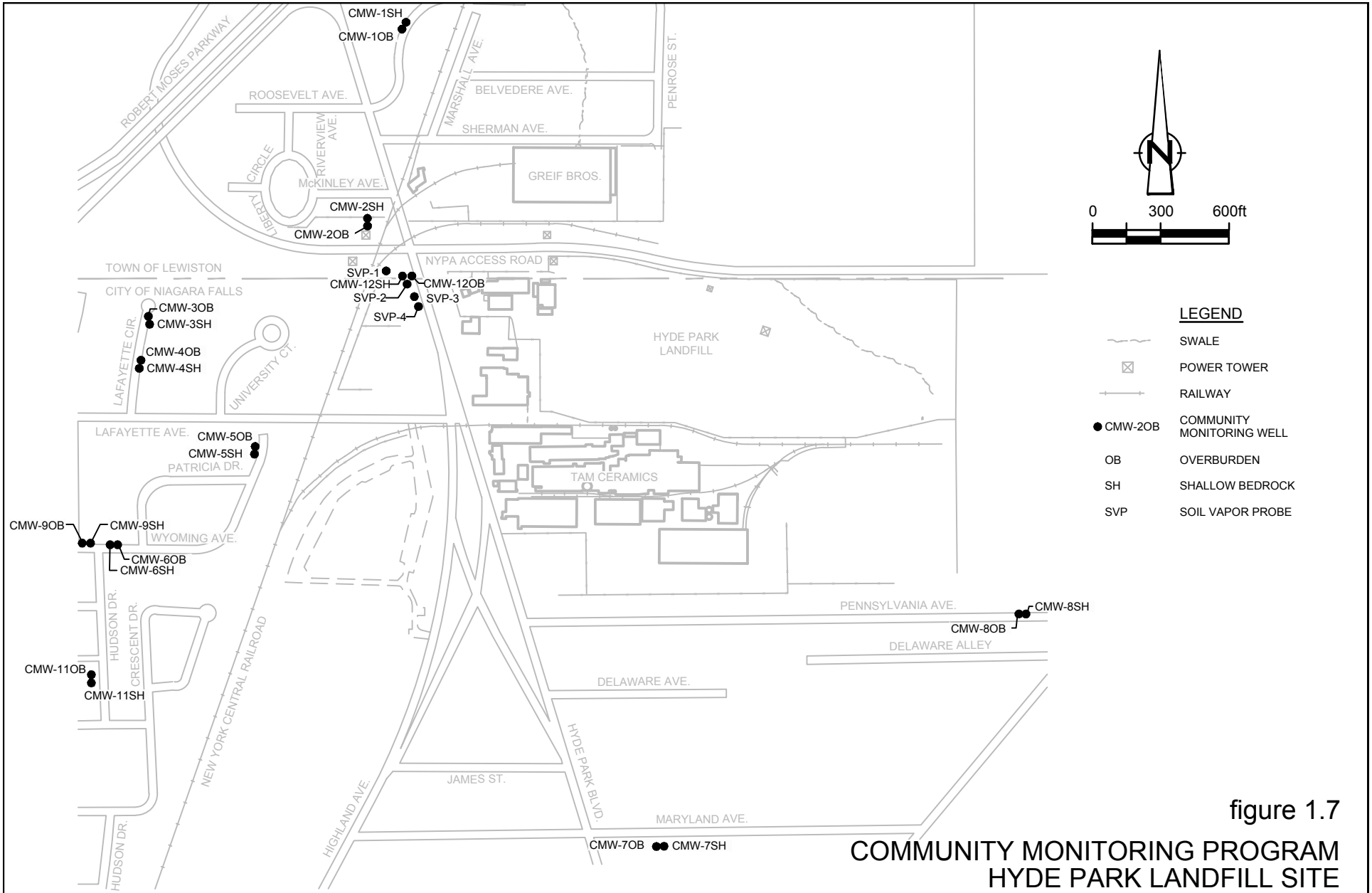


figure 1.7

COMMUNITY MONITORING PROGRAM
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

01069-D23101(361)GN-WA007 APR 7/2015

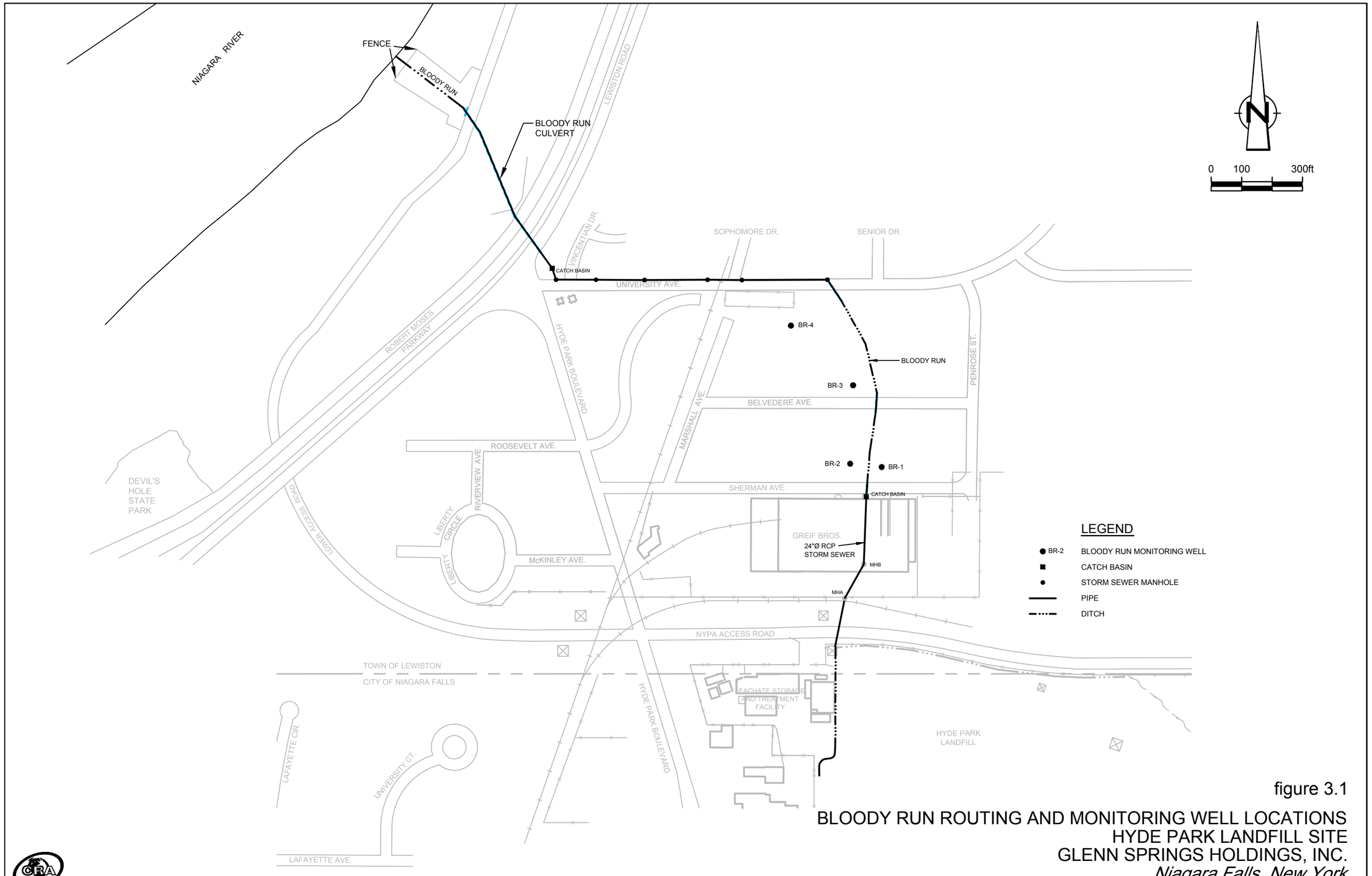


figure 3.1

BLOODY RUN ROUTING AND MONITORING WELL LOCATIONS
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

01069-D23101(361)GN-WA009 APR 8/2015

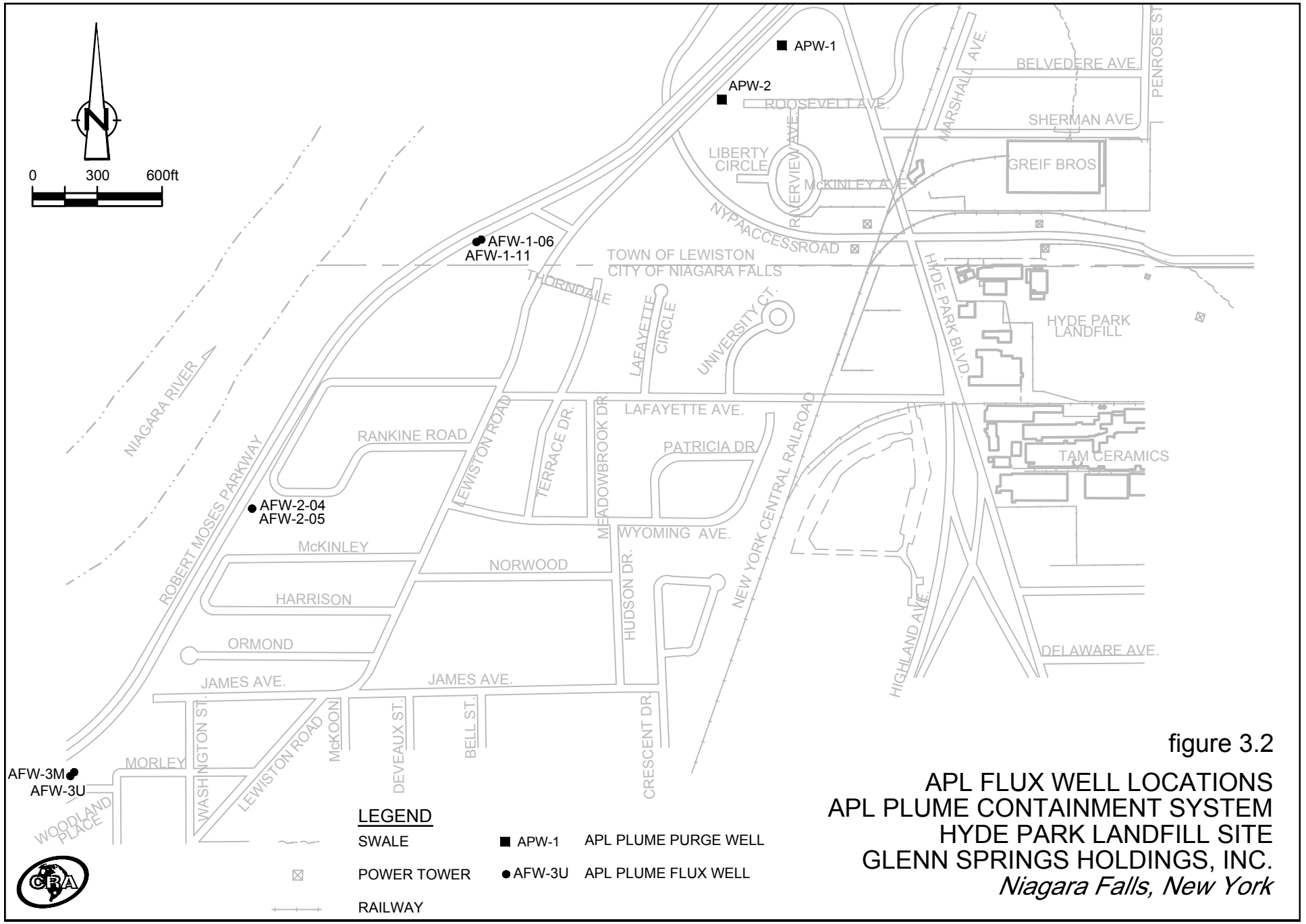


figure 3.2

APL FLUX WELL LOCATIONS
APL PLUME CONTAINMENT SYSTEM
HYDE PARK LANDFILL SITE
GLENN SPRINGS HOLDINGS, INC.
Niagara Falls, New York

01069-D23101(361)GN-WA008 APR 8/2015

TABLE 1.1

PMP MONITORING TASKS - 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Program	*Frequency*	*Activity*	*Location/Description*	*PMP Table Reference*	*PRR Report Reference*	*Completed (Yes/No)*	*Comment*
Overburden	Continuous	Water Level Measurement	Wet Wells	--	--	Yes	
	Daily	Total Water Flow	Decanters	--	--	Yes	
	Monthly	Purge NAPL	Source Control NAPL Recovery Wells	Table 3.3	Table 3.1	Yes	
		Water Level Measurement	Source Control NAPL Recovery Wells	Table 3.3	Table 3.1	Yes	
		NAPL Thickness	Source Control NAPL Recovery Wells	Table 3.3	Table 3.1	Yes	
	Quarterly	Hand Water Level Measurement	Manholes	Table 3.2	Table 3.2	Yes	
		Hand Water Level Measurement	OBCS Overburden Monitoring Wells	Table 3.2	Table 3.2	Yes	
		Hand Water Level Measurement	Source Control Monitoring Wells	Table 3.3	Table 3.2	Yes	
		NAPL Thickness	Source Control Monitoring Wells	Table 3.3	--	Yes	
	Annual	NAPL Presence	Manholes	Table 3.2	Table 3.3	Yes	
		NAPL Presence	OBCS Overburden Monitoring Wells	Table 3.2	Table 3.3	Yes	
Bedrock	Continuous	Water Level Measurement	NAPL and APL Purge Wells	Table 4.1	--	Yes	See quarterly reports
	Hourly	Water Level Measurement	Bedrock Piezometer PMW-1M-09	--	--	Yes	See quarterly reports
	Daily	Total Water Flow	Decanters	--	--	Yes	
	Monthly	Total Water Flow	Bedrock Purge Wells	--	Table 3.6	Yes	
	Quarterly	Hand Water Level Measurement	All Bedrock Piezometers	--	Table 3.5	Yes	
		APL Sampling	Group B Bedrock Piezometers	Table 4.2	Tables 3.7 a-d	Yes	
	Every Fifth Quarter	APL Sampling	Group A Bedrock Piezometers	Table 4.2	Table 3.8	Yes	
	Annual	APL Sampling	Open Catch Basin	--	Table 5.2	Yes	
		NAPL Presence	Open Catch Basin	--	--	Yes	None present
	Five-Year	APL Sampling	Bloody Run Monitoring Wells	Table 7.1	--	--	Due 2016
		APL Sampling	Operating APL and NAPL Purge Wells	Table 7.1	--	--	Due 2016

TABLE 1.1

PMP MONITORING TASKS - 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Program	*Frequency*	*Activity*	*Location/Description*	*PMP Table Reference*	*PRR Report Reference*	*Completed (Yes/No)*	*Comment*
Community	Quarterly	Hand Water Level Measurement	Bedrock Monitoring Wells	Table 5.4	Table 3.10	Yes	
		Hand Water Level Measurement	Overburden Monitoring Wells	Table 5.4	Table 3.10	Yes	
	Annual	APL Plume Flux Composite Sample	APL Flux Piezometers and Purge Wells (APWs and AFWs)	Table 5.3/App D	Table 3.9	Yes	
		Vapor Monitoring	Overburden Monitoring Wells	Table 5.4	Table 3.11	Yes	
	Biennial	Gorge Face Seep Inspection	Seeps	Table 5.2	--	--	Due 2015
Treatment	Continuous	APL Sampling	Treated Effluent	Table 6.1	--	Yes	See quarterly reports
		Total Water Flow	Treated Effluent	Table 6.1	--	Yes	See quarterly reports
	Weekly	APL Sampling	Carbon Interstage	Table 6.1	Table 4.2	Yes	
		APL Sampling	Treated Effluent	Table 6.1	--	Yes	See quarterly reports
	Quarterly	NAPL Volumes	Decanters	--	Table 4.1	Yes	
		APL Sampling	Leachate Feed	Table 6.1	Table 4.3	Yes	
Estimated concentration		APL Sampling	Sac Bed Interstage	Table 6.1	Table 4.4	Yes	
		APL Sampling	Treated Effluent	Table 6.1	--	Yes	See quarterly reports
Maintenance	Weekly	Fence Inspections	--	App A	--	Yes	Available upon request
	Annual	Well Inspections	--	App A	--	Yes	Available upon request
		Cap Inspection	--	App A	--	Yes	Available upon request
Site-Wide	Quarterly	Report	--	--	--	Yes	
	Annual	Report	--	--	--	Yes	
	Five-Year	Report	--	--	--	--	Due 2016

Notes:

APL Aqueous Phase Liquid
NAPL Non-Aqueous Phase Liquid
OBCS Overburden Barrier Collection System
PMP Performance Monitoring Plan
PRR Annual Periodic Review Report
-- Not applicable

TABLE 3.1

2014 SOURCE CONTROL WELL PUMPING SUMMARY
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Month	*SC-2*		*SC-3*		*SC-4*		*SC-5*		*SC-6*		*Total Volume Pumped (gallons)*
	NAPL Thickness (feet)	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	
January	1.7	602.6	0.0	608.2	1.5	604.7	1.3	607.4	0.0	612.2	24
February	1.2	602.6	0.0	608.2	1.0	605.1	1.0	607.6	0.0	612.1	0
March	1.5	602.4	0.0	608.3	1.2	605.2	1.0	609.5	0.0	611.6	63
April	1.6	602.5	0.0	608.1	1.0	604.7	1.0	607.5	0.0	612.0	36
May	1.0	602.4	0.0	608.0	0.8	604.6	0.7	607.2	0.0	612.0	29
June	1.3	601.4	0.0	607.8	1.0	604.4	1.0	607.1	0.0	611.3	49
July	1.0	601.4	0.0	610.0	0.8	606.5	1.0	607.1	0.0	611.3	32
August	0.8	601.0	0.0	609.7	1.0	606.5	0.8	609.1	1.3	611.2	0
September	0.8	602.6	0.0	608.2	1.0	605.1	0.8	607.6	1.2	612.1	0
October	1.0	602.4	0.0	608.1	1.0	605.2	1.0	607.4	1.0	611.9	10
November	1.0	603.4	0.0	610.4	1.0	605.4	1.0	607.4	2.0	610.9	12
December	1.6	602.6	0.0	610.1	1.0	605.4	1.0	607.2	2.0	612.9	10

Notes:

ft. AMSL Feet Above Mean Sea Level
NAPL Non-aqueous Phase Liquid

TABLE 3.2

2014 OVERBURDEN QUARTERLY GROUNDWATER ELEVATION SUMMARY
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Well	*Reference Elevation (ft. AMSL)*	*Water Level Elevation Quarter 1 3/11/2014 (ft. AMSL)*	*Water Level Elevation Quarter 2 6/4/2014 (ft. AMSL)*	*Water Level Elevation Quarter 3 9/3/2014 (ft. AMSL)*	*Water Level Elevation Quarter 4 12/1/2014 (ft. AMSL)*
OMW-1	605.28	600.73	600.02	598.35	599.91
OMW-2	605.99	-	603.25	600.04	602.95
OMW-3	598.63	588.81	589.48	587.42	586.14
OMW-4R	601.17	590.07	589.85	589.09	588.52
OMW-5R	591.31	586.20	585.38	584.14	585.79
OMW-6	587.62	585.89	585.61	585.20	585.45
OMW-7	592.74	585.04	584.92	584.29	585.11
OMW-8R2	594.67	586.39	586.01	584.85	585.46
OMW-9	595.52	587.28	587.19	586.80	587.66
OMW-10R	595.13	586.13	586.07	586.03	586.33
OMW-11R	597.52	590.44	591.52	590.57	591.59
OMW-12R	597.20	591.09	592.29	591.04	591.89
OMW-13R	601.50	592.31	592.31	592.32	592.27
OMW-14R	599.64	592.74	593.53	592.62	592.74
OMW-15	607.48	602.79	603.17	601.19	601.19
OMW-16R	607.62	603.91	603.41	599.28	603.51
SC-2	625.61	596.31	595.16	588.70	597.43
SC-3	638.72	598.41	598.38	597.70	598.24
SC-4	639.35	600.98	601.27	608.70	600.78
SC-5	634.07	- (1)	- (1)	605.70	< 606.07
SC-6	631.15	612.37	596.93	578.20	605.40
MH-20	605.87	601.21	601.03	600.89	600.95
MH-21	599.77	593.68	593.69	593.55	593.66
MH-22	593.37	586.71	586.52	586.34	586.45
MH-23	587.05	575.02	574.73	Dry	Dry
MH-24	582.57	576.81	575.52	576.04	575.66
MH-25	583.82	578.41	577.24	577.68	577.30
MH-26	584.48	577.49	576.25	576.79	576.65
MH-27	586.12	575.79	575.52	575.42	Dry
MH-28	585.23	571.26	569.31	569.31	568.44
MH-29	582.90	567.90	567.88	567.80	567.46
MH-30	588.37	578.32	578.22	578.29	578.29
MH-31	590.10	580.61	580.54	580.56	580.52
MH-32	592.01	582.40	582.32	582.38	582.33
MH-33	592.51	583.82	583.71	583.78	583.79
MH-34	597.64	590.54	590.44	590.49	590.49
MH-35	605.69	599.12	599.05	599.16	599.18
MH-35A	605.69	598.56	598.41	598.23	598.31

Notes:

Dry No water present in well
ft. AMSL Feet Above Mean Sea Level
- Not available
(1) Well obstructed, could not get measurement tape past 29.85 feet

TABLE 3.3

2014 OVERBURDEN NAPL PRESENCE MONITORING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Well I.D.	*April 3, 2014 (Yes/No)*
OMW-1	No
OMW-2	No
OMW-3	No
OMW-4R	No
OMW-5R	No
OMW-6	No
OMW-7	No
OMW-8R2	No
OMW-9	No
OMW-10R	No
OMW-11	No
OMW-12R	No
OMW-13R	No
OMW-14R	No
OMW-15	No
OMW-16R	No
MH-20	No
MH-21	No
MH-22	No
MH-23	No
MH-24	No
MH-25	No
MH-26	No
MH-27	No
MH-28	No
MH-29	Yes
MH-30	Yes
MH-31	Yes
MH-32	Yes
MH-33	No
MH-34	No
MH-35	No
MH-35A	No
Wet Well C	No
Wet Well D	No

TABLE 3.4

2014 OVERBURDEN COLLECTION SYSTEMS MONTHLY AVERAGE FLOW (GPM) SUMMARY
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Month	*EBCS WET WELL A*	*OBCS WET WELL C*	*OBCS WET WELL D*	*Total EBCS*	*Total OBCS*
January	1.2	23.4	19.5	1.2	42.9
February	0.8	17.4	14.9	0.8	32.3
March	1.0	22.6	26.8	1.0	49.4
April	1.2	23.8	20.9	1.2	44.7
May	0.8	17.8	13.6	0.8	31.4
June	1.0	22.4	27.6	1.0	50.0
July	0.1	5.6	6.0	0.1	11.5
August	0.0	4.2	2.9	0.0	7.2
September	0.0	3.8	4.1	0.0	8.0
October	0.1	6.1	6.4	0.1	12.5
November	0.02	3.7	2.4	0.0	6.0
December	0.01	3.8	4.1	0.0	7.8
Annual Average	0.5	12.9	12.4	0.5	25.3

Notes:

GPM Gallons per minute
EBCS Existing Barrier Collection System
OBCS Overburden Barrier Collection System

TABLE 3.5

2014 BEDROCK QUARTERLY WATER LEVEL ELEVATION SUMMARY - PIEZOMETERS
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Well	*Reference Elevation (ft. AMSL)*	*Water Level Elevation Quarter 1 3/19/2014 (ft. AMSL)*	*Water Level Elevation Quarter 2 6/24/2014 (ft. AMSL)*	*Water Level Elevation Quarter 3 9/30/2014 (ft. AMSL)*	*Water Level Elevation Quarter 4 12/10/2014 (ft. AMSL)*
Flow Zone 1					
G1U-01	617.08	603.45	603.93	600.12	598.68
G6-01	609.24	605.01	603.87	600.28	598.87
H2U-01	620.92	612.70	612.28	607.92	608.00
H5-01	617.61	596.61	596.98	594.06	593.86
I1-01	625.58	601.03	601.38	597.73	596.91
Flow Zone 2					
F2U-02	599.89	575.83	575.88	574.42	574.78
F4U-02	602.32	586.56	586.89	585.46	585.73
G1-02	616.86	592.75	592.63	590.97	591.04
G6-02	608.65	591.96	591.86	590.38	590.41
H2U-02	620.88	594.85	594.93	592.29	592.44
H5-02	617.47	594.83	594.76	592.50	571.82
I1-02	625.47	590.94	590.35	585.61	584.02
J2U-02	609.66	598.76	596.77	592.24	594.14
J5U-02	606.21	599.18	597.42	592.96	594.02
J6-02	609.23	598.35	597.30	592.96	594.30
Flow Zone 4					
AFW-2U-04	593.48	577.18	577.76	575.16	574.26
D1U-04	593.77	581.80	582.97	579.02	580.50
D2U-04	590.65	580.86	580.54	577.67	579.17
E6-04	578.23	565.04	564.85	564.08	564.27
F2U-04	599.76	578.48	578.58	576.47	577.06
F4U-04	602.19	586.70	586.71	584.94	585.47
F6-04	588.06	570.20	570.41	569.82	569.66
G1U-04	616.96	592.33	592.27	590.52	590.67
G6-04	609.15	592.30	592.22	590.74	590.93
H5-04	617.40	594.45	594.44	592.21	592.30
I1-04	625.30	588.84	587.65	583.46	582.48
J2U-04	609.42	595.24	594.23	590.10	591.56
J5U-04	606.05	587.51	587.29	584.03	584.72
J6-04	609.12	581.14	581.20	577.79	578.39
Flow Zone 5					
AFW-2U-05	593.33	577.11	577.88	574.90	573.91
AGW-1U-05	591.80	586.99	586.71	582.22	583.42
D1U-05	593.51	580.13	581.16	577.87	578.84
D2U-05	590.56	580.02	579.98	577.70	578.69
E6-05	578.04	566.73	567.70	565.78	566.26
F2U-05	599.64	578.75	578.75	576.76	577.44
F4U-05	602.06	585.85	585.61	583.76	584.65
F6-05	587.85	570.10	570.30	569.72	569.54
G6-05	609.13	591.90	591.96	590.48	590.67
H2M-05	621.59	593.92	594.81	591.81	591.45
H5-05	617.31	593.11	593.00	590.58	590.38
I1-05	625.25	556.35	555.44	553.70	552.52
J2U-05	609.30	579.92	579.89	576.19	576.81
J5U-05	605.87	579.89	579.84	576.18	576.79
J6-05	609.02	580.76	580.90	577.45	578.06
Estimated concentration	598.00	578.58	577.43	576.34	576.79

TABLE 3.5

2014 BEDROCK QUARTERLY WATER LEVEL ELEVATION SUMMARY - PIEZOMETERS
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Well	*Reference Elevation (ft. AMSL)*	*Water Level Elevation Quarter 1 3/19/2014 (ft. AMSL)*	*Water Level Elevation Quarter 2 6/24/2014 (ft. AMSL)*	*Water Level Elevation Quarter 3 9/30/2014 (ft. AMSL)*	*Water Level Elevation Quarter 4 12/10/2014 (ft. AMSL)*
Flow Zone 6					
ABP-7-06	575.78	-	-	-	-
AFW-1U-06	571.83	557.90	557.42	556.90	557.18
AFW-2U-06	593.22	545.22	545.22	545.19	545.16
AGW-1U-06	591.66	553.39	552.84	551.37	552.22
B2U-06	589.29	553.41	553.44	552.42	553.20
C3-06	585.78	548.41	548.33	-	-
D1U-06	593.25	548.08	548.31	546.80	545.70
D2U-06	590.38	548.79	548.51	547.44	546.54
E6-06	577.99	573.48	573.64	572.54	572.34
F2M-06	599.06	558.45	558.26	557.68	557.04
F4M-06	602.05	552.55	552.55	553.03	553.20
F6-06	587.84	573.45	573.66	572.56	572.40
G1M-06	616.75	573.56	573.81	572.68	572.49
G6-06	609.09	574.98	575.37	573.93	574.10
H2M-06	621.42	562.84	559.79	560.74	561.00
H5-06	617.17	596.37	594.56	592.76	590.99
I1-06	625.15	553.21	553.17	552.87	552.11
J2M-06	608.94	555.13	554.95	553.25	553.78
J5M-06	606.22	547.79	547.40	546.51	545.64
J6-06	608.93	556.65	557.04	556.31	555.50
PMW-1U-06	597.92	548.18	548.60	547.85	546.81
Flow Zone 7					
ABP-1-07	576.44	547.90	547.74	547.06	547.82
ABP-7-07	575.73	535.26	537.09	533.18	534.76
AFW-1M-07	571.41	-	-	-	-
AFW-2M-07	593.44	526.68	526.65	526.65	526.60
AGW-1M-07	592.91	551.92	553.86	553.34	547.95
B2M-07	589.52	540.46	538.66	536.81	537.03
C3-07	585.62	545.11	544.61	541.10	540.17
D1M-07	594.15	530.09	532.81	527.19	530.35
D2M-07	590.77	523.23	524.26	524.09	524.90
E6-07	577.91	554.47	554.57	554.41	554.22
F2M-07	598.91	518.22	518.06	517.27	518.46
F4M-07	601.91	531.98	530.81	530.35	530.14
F6-07	587.68	567.44	567.39	567.45	567.39
G1M-07	616.68	583.80	583.91	579.80	579.68
G6-07	609.06	583.36	583.56	579.78	579.51
H5-07	617.05	556.75	556.70	556.40	555.53
I1-07	625.14	553.06	553.46	553.23	550.55
J5M-07	606.07	552.85	554.30	554.28	549.71
J6-07	608.85	553.34	553.97	553.53	551.18
PMW-1M-07	598.50	533.32	531.16	531.20	531.26
Flow Zone 9					
ABP-1-09	575.49	535.22	534.77	534.42	534.51
ABP-7-09	575.67	535.48	534.63	530.50	534.45
AFW-1M-09	571.12	527.69	527.31	524.87	524.59
AFW-2M-09	593.32	521.21	521.18	521.21	521.13
AGW-1M-09	592.75	552.07	553.98	552.85	549.04
B2M-09	589.34	520.75	529.51	520.62	520.63

TABLE 3.5

2014 BEDROCK QUARTERLY WATER LEVEL ELEVATION SUMMARY - PIEZOMETERS
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Well	*Reference Elevation (ft. AMSL)*	*Water Level Elevation Quarter 1 3/19/2014 (ft. AMSL)*	*Water Level Elevation Quarter 2 6/24/2014 (ft. AMSL)*	*Water Level Elevation Quarter 3 9/30/2014 (ft. AMSL)*	*Water Level Elevation Quarter 4 12/10/2014 (ft. AMSL)*
Flow Zone 9 (Continued)					
C3-09	585.00	542.41	542.31	539.79	538.72
D1M-09	594.02	517.59	529.39	517.53	518.17
D2M-09	590.66	517.53	517.40	516.56	517.85
E6-09	577.82	553.65	553.77	553.87	553.05
F2M-09	598.71	517.33	517.23	516.40	517.49
F4M-09	601.79	517.25	517.11	516.27	517.38
F6-09	587.53	577.18	576.72	575.22	573.95
G1M-09	616.58	580.68	581.73	579.25	577.99
G6-09	608.98	584.74	584.77	580.47	580.36
H2M-09	621.32	552.20	552.43	551.90	547.63
H5-09	616.93	552.91	553.51	552.27	550.19
I1-09	624.91	562.94	562.81	562.94	562.82
J2M-09	608.77	553.34	554.26	553.30	551.69
J5M-09	605.82	548.13	554.34	553.83	550.63
J6-09	608.76	566.76	566.18	563.65	564.20
PMW-1M-09	598.34	517.52	517.38	516.48	517.67
Flow Zone 11					
AFW-1L-11	572.10	509.66	509.41	505.63	506.84
AFW-2L-11	593.43	496.29	497.00	495.41	494.97
AGW-1L-11	592.71	578.53	578.26	578.10	578.14
B2L-11	589.65	498.97	499.13	499.02	498.57
D1L-11	593.80	504.92	505.25	504.26	503.48
D2L-11	590.21	519.19	518.96	518.71	518.12
E6-11	577.72	539.83	539.80	537.67	535.61
F2L-11	598.94	553.57	558.59	558.81	558.84
F4L-11	602.22	580.65	583.47	577.76	578.01
F6-11	587.40	534.20	534.05	532.28	530.02
G1L-11	616.84	563.89	562.76	561.32	558.12
G6-11	608.89	565.59	565.80	564.07	560.59
H2L-11	620.73	561.12	561.33	561.02	559.93
H5-11	616.81	551.42	549.78	550.30	547.18
I1-11	624.75	549.74	549.64	549.71	549.43
J5L-11	607.20	554.39	549.22	548.32	545.76
J6-11	608.68	587.05	586.45	585.65	584.91
PMW-1L-11	598.84	511.12	510.72	510.87	510.90

Notes:

ft. AMSL Feet Above Mean Sea Level
- Not available

TABLE 3.6

2014 BEDROCK PURGE WELL MONTHLY FLOW RATE (GPM) SUMMARY
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Month	*PW-1U*	*PW-1L*	*PW-2UR*	*PW-2M*	*PW-2L*	*PW-3M*	*PW-3L*	*PW-4U*	*PW-4M* [(1)]	*PW-5UR*	*PW-6UR*	*PW-6MR*
January	1.59	3.02	0.89	13.86	0.63	0.02	1.19	0.13	0.00	4.83	0.74	3.25
February	1.20	2.22	0.54	13.74	0.31	0.02	0.00	0.13	0.00	4.31	0.69	3.20
March	1.43	2.00	0.50	13.57	0.43	0.01	2.29	0.15	0.00	5.07	0.72	3.15
April	4.25	3.16	1.47	14.21	0.63	0.01	0.54	1.71	0.57	5.26	0.75	3.26
May	4.33	1.86	1.35	13.36	0.34	0.01	2.58	0.15	0.70	5.38	0.78	3.07
June	4.22	1.01	1.16	12.27	0.22	0.00	1.65	0.12	0.58	4.87	0.63	2.92
July	0.42	0.95	1.06	11.95	0.22	0.00	1.47	0.11	0.51	4.49	0.57	2.83
August	0.22	0.90	1.01	11.07	0.18	0.00	2.05	0.11	0.46	4.34	0.34	2.71
September	0.07	0.78	0.94	10.32	0.15	0.09	1.96	0.10	0.36	4.30	0.37	2.54
October	0.14	4.19	0.78	2.59	0.33	0.11	2.25	0.09	0.30	3.77	0.35	2.29
November	0.12	3.93	0.78	5.17	0.35	0.10	2.51	0.08	0.45	3.75	0.33	3.09
December	0.11	4.97	0.86	4.23	0.56	0.12	2.68	0.08	0.71	3.79	0.38	3.60
Annual Average	1.51	2.42	0.94	10.53	0.36	0.04	1.76	0.25	0.39	4.51	0.55	2.99

Month	*PW-7U*	*PW-8M* [(1)]	*PW-8U*	*PW-9U*	*PW-10U*	*APW-1*	*APW-2*
January	0.69	0.05	1.06	1.12	2.77	0.96	0.34
February	0.67	0.00	1.06	0.94	3.01	0.97	0.38
March	0.68	0.00	1.24	1.09	2.83	1.08	0.43
April	0.65	0.27	1.76	1.11	3.48	1.39	0.52
May	0.64	0.10	1.22	1.06	3.87	1.09	0.16
June	0.60	0.00	0.76	0.95	3.35	0.66	0.00
July	0.55	0.00	0.55	0.84	3.05	0.57	0.00
August	0.56	0.00	0.33	0.80	2.89	0.41	0.00
September	0.53	0.00	0.09	0.76	2.81	0.17	0.00
October	0.50	0.00	0.40	0.76	2.54	0.50	0.21
November	0.51	0.00	0.31	0.67	2.43	0.55	0.28
December	0.54	0.00	0.38	0.85	2.58	0.84	0.34
Annual Average	0.59	0.04	0.76	0.91	2.97	0.77	0.22

Notes:

GPM Gallons per minute

(1) PW-4M and PW-8M typically run at set point and do not require frequent pumping

TABLE 3.7a

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUP B BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*ABP-7-09*	*AGW-1M-07*	*AGW-1M-09*	*AGW-1U-06*	*B2L-11*
Sample ID:			*ABP-7-09-0214*	*AGW-1M-07-0214*	*AGW-1M-09-0214*	*AGW-1U-06-0214*	*B2L-11-0214*
Sample Date:			*03/22/2014*	*02/18/2014*	*02/18/2014*	*02/18/2014*	*03/22/2014*
Parameters	***Units***	***Screening Level***					
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	21 J
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	**99 J**	**110 J**	**140 J**	**140 J**

Sample Location:			*C3-07*	*C3-09*	*D1M-09*	*D1U-04*	*D1U-05*
Sample ID:			*C3-07-0214*	*C3-09-0214*	*D1M-09-0214*	*D1U-04-0214*	*D1U-05-0214*
Sample Date:			*02/04/2014*	*02/04/2014*	*02/19/2014*	*02/19/2014*	*02/19/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	24 J	250 U	44 J	**76 J**

Sample Location:			*F2M-09*	*F2U-02*	*F2U-04*	*G1U-01*	*G6-01*
Sample ID:			*F2M-09-0214*	*F2U-02-0214*	*F2U-04-0214*	*G1U-01-0214*	*G6-01-0214*
Sample Date:			*02/07/2014*	*02/07/2014*	*02/07/2014*	*03/25/2014*	*02/06/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	**190 J**	**370**	250 U	250 U

Sample Location:			*G6-04*	*G6-06*	*H2U-02*	*H5-09*
Sample ID:			*G6-04-0214*	*G6-06-0214*	*H2U-02-0214*	*H5-09-0214*
Sample Date:			*02/06/2014*	*02/06/2014*	*03/25/2014*	*02/04/2014*
Organic Acids						
2-Chlorobenzoic acid	µg/L	7,300	490	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	2600	30 U	16 J	30 U
4-Chlorobenzoic acid	µg/L	7,300	1800	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	**140 J**	250 U	**93 J**	**83 J**

Notes:

µg/L	Micrograms per liter
J	Estimated concentration
U	Non-detect at associated value
0.3	Concentration exceeds Screening Level

TABLE 3.7b

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUP B BEDROCK PIEZOMETER SAMPLING
SECOND QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*ABP-7-09*	*AGW-1M-07*	*AGW-1M-09*	*AGW-1U-06*	*B2L-11*
Sample ID:			*ABP-7-09-0614*	*AGW-1M-07-0614*	*AGW-1M-09-0614*	*AGW-1U-06-0614*	*B2L-11-0614*
Sample Date:			*6/6/2014*	*6/6/2014*	*6/6/2014*	*6/6/2014*	*6/9/2014*
Parameters	*Units*	*Screening Level*					
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	**110 J**	**170 J**	**94 J**	**75 J**

Sample Location:			*C3-07*	*C3-09*	*D1M-09*	*D1U-04*	*D1U-05*
Sample ID:			*C3-07-0614*	*C3-09-0614*	*D1M-09-0614*	*D1U-04-0614*	*D1U-05-0614*
Sample Date:			*6/6/2014*	*6/6/2014*	*6/9/2014*	*6/9/2014*	*6/9/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	30 J	**260**	29 J	**86 J**

Sample Location:			*F2M-09*	*F2U-02*	*F2U-04*	*G1U-01*	*G6-01*
Sample ID:			*F2M-09-0614*	*F2U-02-0614*	*F2U-04-0614*	*G1U-01-0614*	*G6-01-0614*
Sample Date:			*6/9/2014*	*6/9/2014*	*6/9/2014*	*6/10/2014*	*6/6/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	19 J	**210 J**	**400**	250 U	18 J

Sample Location:			*G6-01*	*G6-04*	*G6-06*	*H2U-02*	*H5-09*
Sample ID:			*W7-10-0614*	*G6-04-0614*	*G6-06-0614*	*H2U-02-0614*	*H5-09-0614*
Sample Date:			*6/6/2014*	*6/6/2014*	*6/6/2014*	*6/9/2014*	*6/6/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	310	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	1900	30 U	10 J	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	1000	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	16 J	**130 J**	250 U	**100 J**	**87 J**

Notes:

µg/L	Micrograms per liter
J	Estimated concentration
U	Non-detect at associated value
0.3	Concentration exceeds Screening Level

TABLE 3.7c

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUP B BEDROCK PIEZOMETER SAMPLING
THIRD QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*ABP-7-09*	*AGW-1M-07*	*AGW-1M-09*	*AGW-1U-06*	*B2L-11*
Sample ID:			*ABP-7-09-0814*	*AGW-1M-07-0814*	*AGW-1M-090814*	*AGW-1U-06-0814*	*B2L-11-0814*
Sample Date:			*8/27/2014*	*8/27/2014*	*8/27/2014*	*8/27/2014*	*8/27/2014*
Parameters	*Units*	*Screening Level*					
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	13 J
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	**99 J**	**98 J**	**120 J**	**130 J**

Sample Location:			*C3-07*	*C3-09*	*D1M-09*	*D1U-04*	*D1U-05*
Sample ID:			*C3-07-0814*	*C3-09-0814*	*D1M-09-0814*	*D1U-04-0814*	*D1U-05-0814*
Sample Date:			*8/27/2014*	*8/27/2014*	*8/26/2014*	*8/26/2014*	*8/26/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	22 J	17 J	**210 J**	23 J	**78 J**

Sample Location:			*F2M-09*	*F2U-02*	*F2U-04*	*G1U-01*	*G6-01*
Sample ID:			*F2M-09-0814*	*F2U-02-0814*	*F2U-04-0814*	*G1U-01-0814*	*G6-01-0814*
Sample Date:			*8/26/2014*	*8/26/2014*	*8/26/2014*	*8/27/2014*	*8/26/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	13 J	**180 J**	**380**	250 U	250 U

Sample Location:			*G6-04*	*G6-06*	*H2U-02*	*H5-09*	*H5-09*
Sample ID:			*G6-04-0814*	*G6-06-0814*	*H2U-02-0814*	*H5-09-0814*	*W7-10-0814*
Sample Date:			*8/26/2014*	*8/26/2014*	*8/27/2014*	*8/27/2014*	*8/27/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	480	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	2800	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7300	1400	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	**140 J**	250 U	**94 J**	**83 J**	**80 J**

Notes:

µg/L	Micrograms per liter
J	Estimated concentration
U	Non-detect at associated value
0.3	Concentration exceeds Screening Level

TABLE 3.7d

ANALYTICAL RESULTS SUMMARY
QUARTERLY GROUP B BEDROCK PIEZOMETER SAMPLING
FOURTH QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*ABP-7-09*	*AGW-1M-07*	*AGW-1M-09*	*AGW-1U-06*	*B2L-11*
Sample ID:			*ABP-7-09-1214*	*AGW-1M-07-1214*	*AGW-1M-09-1214*	*AGW-1U-06-1214*	*B2L-11-1214*
Sample Date:			*12/9/2014*	*12/10/2014*	*12/10/2014*	*12/10/2014*	*12/9/2014*
Parameters	*Units*	*Screening Level*					
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	11 J
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	33 J	**97 J**	**110 J**	**180 J**	**140 J**

Sample Location:			*C3-07*	*C3-09*	*D1M-09*	*D1U-04*	*D1U-05*
Sample ID:			*C3-07-1214*	*C3-09-1214*	*D1M-09-1214*	*D1U-04-1214*	*D1U-05-1214*
Sample Date:			*12/8/2014*	*12/8/2014*	*12/8/2014*	*12/9/2014*	*12/8/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	19 J	250 U	**200 J**	22 J	**73 J**

Sample Location:			*F2M-09*	*F2U-02*	*F2U-04*	*G1U-01*	*G6-01*
Sample ID:			*F2M-09-1214*	*F2U-02-1214*	*F2U-04-1214*	*G1U-01-1214*	*G6-01-1214*
Sample Date:			*12/9/2014*	*12/9/2014*	*12/9/2014*	*12/10/2014*	*12/8/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7,300	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	15 J	**190 J**	**390**	250 U	250 U

Sample Location:			*G6-04*	*G6-04*	*G6-06*	*H2U-02*	*H5-09*
Sample ID:			*G6-04-1214*	*W7-10-1214*	*G6-06-1214*	*H2U-02-1214*	*H5-09-1214*
Sample Date:			*12/8/2014*	*12/8/2014*	*12/8/2014*	*12/9/2014*	*12/10/2014*
Organic Acids							
2-Chlorobenzoic acid	µg/L	7,300	270	270	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7,300	1600	1600	30 U	13 J	30 U
4-Chlorobenzoic acid	µg/L	7,300	480	510	300 U	300 U	300 U
Benzoic acid	µg/L	150,000	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	**71 J**	**98 J**	250 U	**100 J**	**82 J**

Notes:

µg/L	Micrograms per liter
J	Estimated
U	Non-detect at associated value
0.3	Concentration exceeds Screening Level

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*ABP-1-09*	*ABP-7-09*	*AFW-1L-11*	*AFW-2U-04*	*AFW-2U-05*	*AGW-1M-07*	*AGW-1M-09*
Sample ID:			*ABP-1-09-0214*	*ABP-7-09-0214*	*AFW-1L-11-0214*	*AFW-2U-04-0214*	*AFW-2U-05-0214*	*AGW-1M-07-0214*	*AGW-1M-09-0214*
Sample Date:			*03/22/2014*	*03/22/2014*	*03/22/2014*	*03/22/2014*	*03/22/2014*	*02/18/2014*	*02/18/2014*
Parameters	***Units***	***Screening Level***							
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	µg/L	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.053	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	800	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	1.1
1,2-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 J	2.6
1,2-Dichloroethane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	180	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	0.95 J	5.1
1,4-Dichlorobenzene	µg/L	75	1.0 U	0.55 J	1.0 U	1.0 U	1.0 U	0.73 J	2.9
2-Chlorotoluene	µg/L	120	1.0 U	1.8	1.0 U	1.0 U	1.0 U	2.6	25
3-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	8.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1000	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	100	1.0 U	6.4	1.0 U	1.0 U	1.0 U	7.1	34
Chloroethane	µg/L	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	190	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 J	0.48 J
cis-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	350	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.90 J	4.1
o-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	7.9
p-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5	11
Styrene	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39 J
trans-1,2-Dichloroethene	µg/L	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*ABP-1-09*	*ABP-7-09*	*AFW-1L-11*	*AFW-2U-04*	*AFW-2U-05*	*AGW-1M-07*	*AGW-1M-09*
Sample ID:			*ABP-1-09-0214*	*ABP-7-09-0214*	*AFW-1L-11-0214*	*AFW-2U-04-0214*	*AFW-2U-05-0214*	*AGW-1M-07-0214*	*AGW-1M-09-0214*
Sample Date:			*03/22/2014*	*03/22/2014*	*03/22/2014*	*03/22/2014*	*03/22/2014*	*02/18/2014*	*02/18/2014*
Parameters	***Units***	***Screening Level***							
VOCs-Continued									
trans-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 J	0.86 J
Xylenes (total)	µg/L	10000	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	0.91 J
Semi-volatile Organic Compounds (SVOCs)									
2,4,6-Trichlorophenol	µg/L	6.1	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
2,4-Dichlorophenol	µg/L	110	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
2,4-Dimethylphenol	µg/L	730	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Estimated concentration	µg/L	73	48 U	48 U	48 U	48 U	48 U	48 U	48 U
2-Chloronaphthalene	µg/L	490	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
2-Chlorophenol	µg/L	30	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
2-Nitrophenol	µg/L	50	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
4,6-Dinitro-2-methylphenol	µg/L	3.7	48 U	48 U	48 U	48 UJ	48 U	48 U	48 U
4-Chloro-3-methylphenol	µg/L	50	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
4-Nitrophenol	µg/L	50	48 U	48 U	48 U	48 UJ	48 U	48 U	48 U
Acenaphthene	µg/L	370	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Acenaphthylene	µg/L	310	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Anthracene	µg/L	1800	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Benzo(a)anthracene	µg/L	0.092	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Benzo(a)pyrene	µg/L	0.2	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Benzo(b)fluoranthene	µg/L	0.092	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Benzo(g,h,i)perylene	µg/L	310	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
bis(2-Chloroethoxy)methane	µg/L	5	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Chrysene	µg/L	9.2	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Dibenz(a,h)anthracene	µg/L	0.0092	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Diethyl phthalate	µg/L	29000	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Dimethyl phthalate	µg/L	370000	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Di-n-butylphthalate (DBP)	µg/L	3700	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Di-n-octyl phthalate (DnOP)	µg/L	1500	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Fluoranthene	µg/L	1500	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Fluorene	µg/L	240	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*ABP-1-09*	*ABP-7-09*	*AFW-1L-11*	*AFW-2U-04*	*AFW-2U-05*	*AGW-1M-07*	*AGW-1M-09*
Sample ID:			*ABP-1-09-0214*	*ABP-7-09-0214*	*AFW-1L-11-0214*	*AFW-2U-04-0214*	*AFW-2U-05-0214*	*AGW-1M-07-0214*	*AGW-1M-09-0214*
Sample Date:			*03/22/2014*	*03/22/2014*	*03/22/2014*	*03/22/2014*	*03/22/2014*	*02/18/2014*	*02/18/2014*
Parameters	***Units***	***Screening Level***							
SOVs-Continued									
Hexachlorobenzene	µg/L	1	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Hexachlorobutadiene	µg/L	0.86	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Hexachlorocyclopentadiene	µg/L	50	48 U	48 U	48 U	R	48 U	48 U	48 U
Hexachloroethane	µg/L	4.8	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/L	0.092	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Isophorone	µg/L	70	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Naphthalene	µg/L	6.5	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Octachlorocyclopentene	µg/L	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Pentachlorophenol	µg/L	1	48 U	48 U	48 U	48 U	48 U	48 U	48 U
Phenanthrene	µg/L	310	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Phenol	µg/L	11000	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Pyrene	µg/L	180	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U	9.6 U
Organic Acid									
2-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7300	300 U	300 U	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150000	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	250 U	250 U	250 U	250 U	99 J	110 J
General Chemistry									
Sulfate	mg/L	NA	1200	190	160	78	240	1400	1600

Notes:

mg/L	Milligrams per liter
µg/L	Micrograms per liter
J	Estimated concentration
NA	Not available
U	Non-detect at associated value
R	Data rejected
	Value exceeds associated screening level

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*AGW-1U-05*	*AGW-1U-06*	*B2L-11*	*C3-07*	*C3-09*	*D1L-11*	*D1M-09*
Sample ID:			*AGW-1U-05-0214*	*AGW-1U-06-0214*	*B2L-11-0214*	*C3-07-0214*	*C3-09-0214*	*D1L-11-0214*	*D1M-09-0214*
Sample Date:			*02/18/2014*	*02/18/2014*	*03/22/2014*	*02/04/2014*	*02/04/2014*	*02/19/2014*	*02/19/2014*
Parameters	***Units***	***Screening Level***							
Volatile Organic Compounds (VOCs)									
1,1,1-Trichloroethane	µg/L	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.053	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
1,1-Dichloroethane	µg/L	800	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
1,1-Dichloroethene	µg/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.30 J
1,2-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.47 J
1,2-Dichloroethane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
1,2-Dichloropropane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	180	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	3.5
1,4-Dichlorobenzene	µg/L	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.1
2-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.5	1.0 U	1.0 U	3.0 U	5.7
3-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
4-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.39 J
Benzene	µg/L	5	1.0 U	1.0 U	53	1.0 U	1.0 U	64	4.3
Bromodichloromethane	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Bromoform	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	8.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Carbon disulfide	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Carbon tetrachloride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Chlorobenzene	µg/L	100	1.0 U	1.0 U	6.0	0.69 J	0.26 J	3.0 U	22
Chloroethane	µg/L	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	190	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	70	0.43 J	1.4	0.56 J	1.0 U	0.27 J	3.0 U	0.45 J
cis-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	350	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 J	1.0 U
Methylene chloride	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.40 J
o-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.49 J
p-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.1
Styrene	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Tetrachloroethene	µg/L	5	0.20 J	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Toluene	µg/L	1000	1.0 U	0.26 J	0.33 J	1.0 U	1.0 U	1.6 J	0.22 J
trans-1,2-Dichloroethene	µg/L	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	0.84 J

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*AGW-1U-05*	*AGW-1U-06*	*B2L-11*	*C3-07*	*C3-09*	*D1L-11*	*D1M-09*
Sample ID:			*AGW-1U-05-0214*	*AGW-1U-06-0214*	*B2L-11-0214*	*C3-07-0214*	*C3-09-0214*	*D1L-11-0214*	*D1M-09-0214*
Sample Date:			*02/18/2014*	*02/18/2014*	*03/22/2014*	*02/04/2014*	*02/04/2014*	*02/19/2014*	*02/19/2014*
Parameters	***Units***	***Screening Level***							
VOCs-Continued									
trans-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Trichloroethene	µg/L	5	1.0 U	1.0 U	0.33 J	1.0 U	1.0 U	3.0 U	0.32 J
Trichlorofluoromethane (CFC-11)	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Vinyl acetate	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0 U	1.0 U
Vinyl chloride	µg/L	2	1.0 U	3.1	1.0 U	1.0 U	1.0 U	0.96 J	0.61 J
Xylenes (total)	µg/L	10000	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	15	3.0 U
Semi-volatile Organic Compounds (SVOCs)									
2,4,6-Trichlorophenol	µg/L	6.1	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
2,4-Dichlorophenol	µg/L	110	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
2,4-Dimethylphenol	µg/L	730	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Estimated concentration	µg/L	73	48 U	48 U	48 U	49 U	48 U	48 U	48 U
2-Chloronaphthalene	µg/L	490	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
2-Chlorophenol	µg/L	30	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
2-Nitrophenol	µg/L	50	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
4,6-Dinitro-2-methylphenol	µg/L	3.7	48 U	48 U	48 U	49 U	48 U	48 U	48 U
4-Chloro-3-methylphenol	µg/L	50	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
4-Nitrophenol	µg/L	50	48 U	48 U	48 U	49 U	48 U	48 U	48 U
Acenaphthene	µg/L	370	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Acenaphthylene	µg/L	310	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Anthracene	µg/L	1800	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Benzo(a)anthracene	µg/L	0.092	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Benzo(a)pyrene	µg/L	0.2	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Benzo(b)fluoranthene	µg/L	0.092	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Benzo(g,h,i)perylene	µg/L	310	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
bis(2-Chloroethoxy)methane	µg/L	5	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	NA	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Chrysene	µg/L	9.2	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Dibenz(a,h)anthracene	µg/L	0.0092	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Diethyl phthalate	µg/L	29000	9.6 U	9.6 U	4.3 J	9.7 U	9.6 U	9.6 U	9.6 U
Dimethyl phthalate	µg/L	370000	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Di-n-butylphthalate (DBP)	µg/L	3700	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Di-n-octyl phthalate (DnOP)	µg/L	1500	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Fluoranthene	µg/L	1500	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Fluorene	µg/L	240	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*AGW-1U-05*	*AGW-1U-06*	*B2L-11*	*C3-07*	*C3-09*	*D1L-11*	*D1M-09*
Sample ID:			*AGW-1U-05-0214*	*AGW-1U-06-0214*	*B2L-11-0214*	*C3-07-0214*	*C3-09-0214*	*D1L-11-0214*	*D1M-09-0214*
Sample Date:			*02/18/2014*	*02/18/2014*	*03/22/2014*	*02/04/2014*	*02/04/2014*	*02/19/2014*	*02/19/2014*
Parameters	***Units***	***Screening Level***							
SOVs-Continued									
Hexachlorobenzene	µg/L	1	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Hexachlorobutadiene	µg/L	0.86	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Hexachlorocyclopentadiene	µg/L	50	48 U	48 U	48 U	R	R	48 U	48 U
Hexachloroethane	µg/L	4.8	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/L	0.092	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Isophorone	µg/L	70	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Naphthalene	µg/L	6.5	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Octachlorocyclopentene	µg/L	NA	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Pentachlorophenol	µg/L	1	48 U	48 U	48 U	49 U	48 U	48 U	48 U
Phenanthrene	µg/L	310	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Phenol	µg/L	11000	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	3.4 J	9.6 U
Pyrene	µg/L	180	9.6 U	9.6 U	9.5 U	9.7 U	9.6 U	9.6 U	9.6 U
Organic Acid									
2-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7300	30 U	30 U	21 J	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7300	300 U	300 U	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150000	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	140 J	140 J	250 U	24 J	260	250 U
General Chemistry									
Sulfate	mg/L	NA	280	360	1600	150	160	1200	1100

Notes:

mg/L	Milligrams per liter
µg/L	Micrograms per liter
J	Estimated concentration
NA	Not available
U	Non-detect at associated value
R	Data rejected
	Value exceeds associated screening level

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*D1U-04*	*D1U-05*	*D2M-09*	*D2U-04*	*D2U-05*	*E6-04*	*E6-05*	*E6-06*
Sample ID:			*D1U-04-0214*	*D1U-05-0214*	*D2M-09-0214*	*D2U-04-0214*	*D2U-05-0214*	*E6-04-0214*	*E6-05-0214*	*E6-06-0214*
Sample Date:			*02/19/2014*	*02/19/2014*	*02/21/2014*	*02/21/2014*	*02/21/2014*	*02/20/2014*	*02/20/2014*	*02/20/2014*
Parameters	***Units***	***Screening Level***								
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	µg/L	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.053	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	800	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	180	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	75	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	8.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1000	1.0 U	1.0 U	0.68 J	0.45 J	1.0 U	1.0 U	1.0 U	1.0
Carbon tetrachloride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	100	1.0 U	0.17 J	7.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	190	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	70	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	3.1
cis-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	350	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	0.12 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	100	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	0.80 J

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*D1U-04*	*D1U-05*	*D2M-09*	*D2U-04*	*D2U-05*	*E6-04*	*E6-05*	*E6-06*
Sample ID:			*D1U-04-0214*	*D1U-05-0214*	*D2M-09-0214*	*D2U-04-0214*	*D2U-05-0214*	*E6-04-0214*	*E6-05-0214*	*E6-06-0214*
Sample Date:			*02/19/2014*	*02/19/2014*	*02/21/2014*	*02/21/2014*	*02/21/2014*	*02/20/2014*	*02/20/2014*	*02/20/2014*
Parameters	***Units***	***Screening Level***								
VOCs-Continued										
trans-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.60 J
Trichlorofluoromethane (CFC-11)	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	2	1.0 U	1.0 U	0.95 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	10000	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Semi-volatile Organic Compounds (SVOCs)										
2,4,6-Trichlorophenol	µg/L	6.1	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
2,4-Dichlorophenol	µg/L	110	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
2,4-Dimethylphenol	µg/L	730	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Estimated concentration	µg/L	73	49 U	49 U	49 U	49 U	48 U	57 U	48 U	49 U
2-Chloronaphthalene	µg/L	490	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
2-Chlorophenol	µg/L	30	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
2-Nitrophenol	µg/L	50	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
4,6-Dinitro-2-methylphenol	µg/L	3.7	49 U	49 U	49 U	49 U	48 U	57 U	48 U	49 U
4-Chloro-3-methylphenol	µg/L	50	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
4-Nitrophenol	µg/L	50	49 U	49 U	49 U	49 U	48 U	57 U	48 U	49 U
Acenaphthene	µg/L	370	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Acenaphthylene	µg/L	310	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Anthracene	µg/L	1800	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Benzo(a)anthracene	µg/L	0.092	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Benzo(a)pyrene	µg/L	0.2	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Benzo(b)fluoranthene	µg/L	0.092	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Benzo(g,h,i)perylene	µg/L	310	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
bis(2-Chloroethoxy)methane	µg/L	5	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	19 U	19 U	19 U	20 U	19 U	23 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	NA	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Chrysene	µg/L	9.2	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Dibenz(a,h)anthracene	µg/L	0.0092	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Diethyl phthalate	µg/L	29000	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Dimethyl phthalate	µg/L	370000	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Di-n-butylphthalate (DBP)	µg/L	3700	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Di-n-octyl phthalate (DnOP)	µg/L	1500	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Fluoranthene	µg/L	1500	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Fluorene	µg/L	240	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*D1U-04*	*D1U-05*	*D2M-09*	*D2U-04*	*D2U-05*	*E6-04*	*E6-05*	*E6-06*
Sample ID:			*D1U-04-0214*	*D1U-05-0214*	*D2M-09-0214*	*D2U-04-0214*	*D2U-05-0214*	*E6-04-0214*	*E6-05-0214*	*E6-06-0214*
Sample Date:			*02/19/2014*	*02/19/2014*	*02/21/2014*	*02/21/2014*	*02/21/2014*	*02/20/2014*	*02/20/2014*	*02/20/2014*
Parameters	***Units***	***Screening Level***								
SOVs-Continued										
Hexachlorobenzene	µg/L	1	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Hexachlorobutadiene	µg/L	0.86	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Hexachlorocyclopentadiene	µg/L	50	49 U	49 U	49 U	49 U	48 U	57 U	48 U	49 U
Hexachloroethane	µg/L	4.8	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Indeno(1,2,3-cd)pyrene	µg/L	0.092	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Isophorone	µg/L	70	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Naphthalene	µg/L	6.5	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Octachlorocyclopentene	µg/L	NA	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Pentachlorophenol	µg/L	1	49 U	49 U	49 U	49 U	48 U	57 U	48 U	49 U
Phenanthrene	µg/L	310	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Phenol	µg/L	11000	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Pyrene	µg/L	180	9.7 U	9.7 U	9.7 U	9.8 U	9.6 U	11 U	9.5 U	9.7 U
Organic Acid										
2-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7300	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	44 J	76 J	120 J	29 J	16 J	250 U	250 U	20 J
General Chemistry										
Sulfate	mg/L	NA	120	270	650	94	91	310	1600	1600

Notes:

mg/L	Milligrams per liter
µg/L	Micrograms per liter
J	Estimated concentration
NA	Not available
U	Non-detect at associated value
R	Data rejected
	Value exceeds associated screening level

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*E6-09*	*E6-11*	*F2L-11*	*F2L-11*	*F2M-09*	*F2U-02*	*F2U-04*	*F6-04*
Sample ID:			*E6-09-0214*	*E6-11-0214*	*F2L-11-0214*	*X7-10-0214*	*F2M-09-0214*	*F2U-02-0214*	*F2U-04-0214*	*F6-04-0214*
Sample Date:			*02/20/2014*	*02/20/2014*	*02/07/2014*	*02/07/2014 (Duplicate)*	*02/07/2014*	*02/07/2014*	*02/07/2014*	*02/21/2014*
Parameters	***Units***	***Screening Level***								
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	µg/L	200	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.053	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	5	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	800	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	7	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	600	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	5	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	5	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	180	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	75	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	120	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	120	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	120	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	5	99	24	14	15 J	0.61 J	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	80	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	80	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	8.5	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1000	5.9	1.2	2.0 U	0.33 J	1.0 U	1.0 U	1.0 U	0.77 J
Carbon tetrachloride	µg/L	5	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	100	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	3.6	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	80	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	190	5.0 U	1.0 U	2.0 U	26 J	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	70	5.0 U	1.0 U	2.0 U	1.0 U	0.70 J	0.40 J	0.31 J	1.0 U
cis-1,3-Dichloropropene	µg/L	0.44	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	350	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	700	2.1 J	0.59 J	0.65 J	0.56 J	0.38 J	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	30	0.94 J	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	5	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	50	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	50	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	NA	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	5	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1000	56	8.6	5.6	6.6 J	1.0 U	1.0 U	1.0 U	0.22 J
trans-1,2-Dichloroethene	µg/L	100	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*E6-09*	*E6-11*	*F2L-11*	*F2L-11*	*F2M-09*	*F2U-02*	*F2U-04*	*F6-04*
Sample ID:			*E6-09-0214*	*E6-11-0214*	*F2L-11-0214*	*X7-10-0214*	*F2M-09-0214*	*F2U-02-0214*	*F2U-04-0214*	*F6-04-0214*
Sample Date:			*02/20/2014*	*02/20/2014*	*02/07/2014*	*02/07/2014 (Duplicate)*	*02/07/2014*	*02/07/2014*	*02/07/2014*	*02/21/2014*
Parameters	***Units***	***Screening Level***								
VOCs-Continued										
trans-1,3-Dichloropropene	µg/L	0.44	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	5	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	NA	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	NA	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	2	5.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	10000	61	9.8	7.5	7.5 J	1.1 J	3.0 U	3.0 U	3.0 U
Semi-volatile Organic Compounds (SVOCs)										
2,4,6-Trichlorophenol	µg/L	6.1	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
2,4-Dichlorophenol	µg/L	110	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
2,4-Dimethylphenol	µg/L	730	1.1 J	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Estimated concentration	µg/L	73	47 U	47 U	48 U	48 U	48 U	48 U	48 U	48 U
2-Chloronaphthalene	µg/L	490	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
2-Chlorophenol	µg/L	30	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
2-Nitrophenol	µg/L	50	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
4,6-Dinitro-2-methylphenol	µg/L	3.7	47 U	47 U	48 U	48 U	48 U	48 U	48 U	48 U
4-Chloro-3-methylphenol	µg/L	50	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
4-Nitrophenol	µg/L	50	47 U	47 U	48 U	48 U	48 U	48 U	48 U	48 U
Acenaphthene	µg/L	370	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Acenaphthylene	µg/L	310	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Anthracene	µg/L	1800	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Benzo(a)anthracene	µg/L	0.092	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Benzo(a)pyrene	µg/L	0.2	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Benzo(b)fluoranthene	µg/L	0.092	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Benzo(g,h,i)perylene	µg/L	310	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
bis(2-Chloroethoxy)methane	µg/L	5	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	NA	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Chrysene	µg/L	9.2	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Dibenz(a,h)anthracene	µg/L	0.0092	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Diethyl phthalate	µg/L	29000	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Dimethyl phthalate	µg/L	370000	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Di-n-butylphthalate (DBP)	µg/L	3700	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Di-n-octyl phthalate (DnOP)	µg/L	1500	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Fluoranthene	µg/L	1500	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Fluorene	µg/L	240	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*E6-09*	*E6-11*	*F2L-11*	*F2L-11*	*F2M-09*	*F2U-02*	*F2U-04*	*F6-04*
Sample ID:			*E6-09-0214*	*E6-11-0214*	*F2L-11-0214*	*X7-10-0214*	*F2M-09-0214*	*F2U-02-0214*	*F2U-04-0214*	*F6-04-0214*
Sample Date:			*02/20/2014*	*02/20/2014*	*02/07/2014*	*02/07/2014 (Duplicate)*	*02/07/2014*	*02/07/2014*	*02/07/2014*	*02/21/2014*
Parameters	***Units***	***Screening Level***								
SOVs-Continued										
Hexachlorobenzene	µg/L	1	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Hexachlorobutadiene	µg/L	0.86	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Hexachlorocyclopentadiene	µg/L	50	47 U	47 U	48 U	48 U	48 U	48 U	48 U	48 U
Hexachloroethane	µg/L	4.8	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/L	0.092	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Isophorone	µg/L	70	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Naphthalene	µg/L	6.5	0.43 J	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Octachlorocyclopentene	µg/L	NA	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Pentachlorophenol	µg/L	1	47 U	47 U	48 U	48 U	48 U	48 U	48 U	48 U
Phenanthrene	µg/L	310	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Phenol	µg/L	11000	5.7 J	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Pyrene	µg/L	180	9.4 U	9.4 U	9.6 U	9.5 U	9.5 U	9.6 U	9.6 U	9.6 U
Organic Acid										
2-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7300	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	19 J	250 U	250 U	250 U	190 J	370	250 U
General Chemistry										
Sulfate	mg/L	NA	1400	1800	71 J	67 J	1700 J	120 J	170 J	420

Notes:

mg/L	Milligrams per liter
µg/L	Micrograms per liter
J	Estimated concentration
NA	Not available
U	Non-detect at associated value
R	Data rejected
	Value exceeds associated screening level

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*F6-06*	*F6-11*	*G1L-11*	*G1M-06*	*G1U-01*	*G6-01*	*G6-02*	*G6-04*
Sample ID:			*F6-06-0214*	*F6-11-0214*	*G1L-11-0214*	*G1M-06-0214*	*G1U-01-0214*	*G6-01-0214*	*G6-02-0214*	*G6-04-0214*
Sample Date:			*02/21/2014*	*02/25/2014*	*03/25/2014*	*03/25/2014*	*03/25/2014*	*02/06/2014*	*02/06/2014*	*02/06/2014*
Parameters	***Units***	***Screening Level***								
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	µg/L	200	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.053	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	6.1	4.4 J	9.8
1,1,2-Trichloroethane	µg/L	5	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	1.0 J
1,1-Dichloroethane	µg/L	800	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	0.75 J
1,1-Dichloroethene	µg/L	7	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	70	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	180	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	75	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
2-Chlorotoluene	µg/L	120	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
3-Chlorotoluene	µg/L	120	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
4-Chlorotoluene	µg/L	120	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Benzene	µg/L	5	0.13 J	28	81	1.0 U	1.0 U	0.38 J	0.56 J	25 J
Bromodichloromethane	µg/L	80	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Bromoform	µg/L	80	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	8.5	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	1000	1.2	1.1 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	100	0.16 J	1.0 U	5.0 U	1.0 U	1.0 U	1.9 J	1.6 J	2.2 J
Chloroethane	µg/L	3.6	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	80	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	13
Chloromethane (Methyl chloride)	µg/L	190	1.0 U	6.3	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	70	2.1	1.0 U	5.0 U	1.0 U	3.1	48	60	43 J
cis-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	350	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	4.5 J	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	30	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
m-Monochlorobenzotrifluoride	µg/L	5	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.2 J	0.61 J	5.0 U
o-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.6 J	0.96 J	1.2 J
p-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	5.0 U	0.30 J	1.0 U	7.2	3.1 J	3.7 J
Styrene	µg/L	NA	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5	1.0 U	1.0 U	5.0 U	0.22 J	1.0 U	15	7.8	5.0
Toluene	µg/L	1000	0.16 J	1.0 U	1.6 J	1.0 U	1.0 U	3.0 U	5.0 U	0.85 J
trans-1,2-Dichloroethene	µg/L	100	1.3	1.0 U	5.0 U	1.0 U	0.33 J	3.5	3.8 J	10

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*F6-06*	*F6-11*	*G1L-11*	*G1M-06*	*G1U-01*	*G6-01*	*G6-02*	*G6-04*
Sample ID:			*F6-06-0214*	*F6-11-0214*	*G1L-11-0214*	*G1M-06-0214*	*G1U-01-0214*	*G6-01-0214*	*G6-02-0214*	*G6-04-0214*
Sample Date:			*02/21/2014*	*02/25/2014*	*03/25/2014*	*03/25/2014*	*03/25/2014*	*02/06/2014*	*02/06/2014*	*02/06/2014*
Parameters	***Units***	***Screening Level***								
VOCs-Continued										
trans-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	5	0.46 J	1.0 U	5.0 U	0.48 J	3.0	61	52	30
Trichlorofluoromethane (CFC-11)	µg/L	NA	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Vinyl acetate	µg/L	NA	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	3.0 U	5.0 U	5.0 U
Vinyl chloride	µg/L	2	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	6.3	11	23
Xylenes (total)	µg/L	10000	0.89 J	3.0 U	35	3.0 U	3.0 U	9.0 U	15 U	15 U
Semi-volatile Organic Compounds (SVOCs)										
2,4,6-Trichlorophenol	µg/L	6.1	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
2,4-Dichlorophenol	µg/L	110	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
2,4-Dimethylphenol	µg/L	730	9.7 U	9.5 U	0.87 J	R	R	9.5 U	9.6 U	9.6 U
Estimated concentration	µg/L	73	49 U	48 U	47 U	49 U	48 U	48 U	48 U	48 U
2-Chloronaphthalene	µg/L	490	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
2-Chlorophenol	µg/L	30	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
2-Nitrophenol	µg/L	50	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
4,6-Dinitro-2-methylphenol	µg/L	3.7	49 U	48 U	47 U	49 U	48 U	48 U	48 U	48 U
4-Chloro-3-methylphenol	µg/L	50	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
4-Nitrophenol	µg/L	50	49 U	48 U	47 U	49 U	48 U	48 U	48 U	48 U
Acenaphthene	µg/L	370	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Acenaphthylene	µg/L	310	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Anthracene	µg/L	1800	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Benzo(a)anthracene	µg/L	0.092	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Benzo(a)pyrene	µg/L	0.2	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Benzo(b)fluoranthene	µg/L	0.092	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Benzo(g,h,i)perylene	µg/L	310	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
bis(2-Chloroethoxy)methane	µg/L	5	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	NA	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Chrysene	µg/L	9.2	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Dibenz(a,h)anthracene	µg/L	0.0092	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Diethyl phthalate	µg/L	29000	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Dimethyl phthalate	µg/L	370000	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Di-n-butylphthalate (DBP)	µg/L	3700	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Di-n-octyl phthalate (DnOP)	µg/L	1500	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Fluoranthene	µg/L	1500	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Fluorene	µg/L	240	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*F6-06*	*F6-11*	*G1L-11*	*G1M-06*	*G1U-01*	*G6-01*	*G6-02*	*G6-04*
Sample ID:			*F6-06-0214*	*F6-11-0214*	*G1L-11-0214*	*G1M-06-0214*	*G1U-01-0214*	*G6-01-0214*	*G6-02-0214*	*G6-04-0214*
Sample Date:			*02/21/2014*	*02/25/2014*	*03/25/2014*	*03/25/2014*	*03/25/2014*	*02/06/2014*	*02/06/2014*	*02/06/2014*
Parameters	***Units***	***Screening Level***								
SOVs-Continued										
Hexachlorobenzene	µg/L	1	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Hexachlorobutadiene	µg/L	0.86	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Hexachlorocyclopentadiene	µg/L	50	49 U	48 U	47 U	49 U	48 U	R	R	R
Hexachloroethane	µg/L	4.8	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/L	0.092	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Isophorone	µg/L	70	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Naphthalene	µg/L	6.5	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Octachlorocyclopentene	µg/L	NA	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Pentachlorophenol	µg/L	1	49 U	48 U	47 U	49 U	48 U	48 U	48 U	48 U
Phenanthrene	µg/L	310	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Phenol	µg/L	11000	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Pyrene	µg/L	180	9.7 U	9.5 U	9.4 U	9.7 U	9.6 U	9.5 U	9.6 U	9.6 U
Organic Acid										
2-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U	490
3-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U	2600
4-Chlorobenzoic acid	µg/L	7300	300 U	300 U	300 U	300 U	300 U	300 U	300 U	1800
Benzoic acid	µg/L	150000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	250 U	250 U	250 U	250 U	250 U	250 U	140 J
General Chemistry										
Sulfate	mg/L	NA	1500	1900	1500	1300	76	85	85	190

Notes:

mg/L	Milligrams per liter
µg/L	Micrograms per liter
J	Estimated concentration
NA	Not available
U	Non-detect at associated value
R	Data rejected
	Value exceeds associated screening level

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*G6-05*	*G6-06*	*G6-07*	*G6-07*	*G6-11*	*H2M-06*	*H2M-09*	*H2U-01*
Sample ID:			*G6-05-0214*	*G6-06-0214*	*G6-07-0214*	*Y7-10-0214*	*G6-11-0214*	*H2M-06-0214*	*H2M-09-0214*	*H2U-01-0214*
Sample Date:			*02/06/2014*	*02/06/2014*	*02/06/2014*	*02/06/2014 (Duplicate)*	*02/07/2014*	*03/25/2014*	*03/25/2014*	*03/25/2014*
Parameters	***Units***	***Screening Level***								
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	µg/L	200	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.053	84	1.0 U	1.0 U	1.0 U	5.0 U	0.39 J	3.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	5	9.7 J	0.23 J	1.0 U	1.0 U	5.0 U	0.86 J	3.0 U	1.0 U
1,1-Dichloroethane	µg/L	800	3.1 J	1.0 U	0.22 J	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
1,1-Dichloroethene	µg/L	7	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	4.2	1.0 U
1,2-Dichlorobenzene	µg/L	600	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.3 J	1.0 U
1,2-Dichloroethane	µg/L	5	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
1,2-Dichloropropane	µg/L	5	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	180	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.3 J	1.0 U
1,4-Dichlorobenzene	µg/L	75	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	2.0 J	1.0 U
2-Chlorotoluene	µg/L	120	10 U	1.0 U	1.0 U	1.0 U	5.0 U	0.70 J	27	1.0 U
3-Chlorotoluene	µg/L	120	10 U	1.0 U	1.0 U	1.0 U	5.0 U	0.44 J	3.0 U	1.0 U
4-Chlorotoluene	µg/L	120	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Benzene	µg/L	5	150	1.0 U	1.0 U	1.0 U	100	1.7	50	1.0 U
Bromodichloromethane	µg/L	80	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Bromoform	µg/L	80	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	8.5	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Carbon disulfide	µg/L	1000	6.3 J	1.0 U	1.0 U	1.0 U	3.3 J	4.4 U	3.0 U	1.0 U
Carbon tetrachloride	µg/L	5	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Chlorobenzene	µg/L	100	8.4 J	1.0 U	1.0 U	1.0 U	5.0 U	2.2	15	1.0 U
Chloroethane	µg/L	3.6	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	80	210	1.0 U	1.0 U	1.0 U	5.0 U	2.0	3.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	190	10 U	0.53 J	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	70	110	0.65 J	1.0 U	1.0 U	4.7 J	15	1.2 J	1.0 U
cis-1,3-Dichloropropene	µg/L	0.44	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	350	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Ethylbenzene	µg/L	700	10 U	1.0 U	1.0 U	1.0 U	4.9 J	0.84 J	1.5 J	1.0 U
Methylene chloride	µg/L	30	10 U	1.0 U	1.0 U	1.0 U	5.0 U	0.82 J	1.5 J	1.0 U
m-Monochlorobenzotrifluoride	µg/L	5	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.5	1.0 U
o-Monochlorobenzotrifluoride	µg/L	50	10 U	1.0 U	1.0 U	1.0 U	5.0 U	0.62 J	9.6	1.0 U
p-Monochlorobenzotrifluoride	µg/L	50	10 U	0.32 J	0.34 J	0.26 J	1.4 J	0.77 J	14	1.0 U
Styrene	µg/L	NA	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Tetrachloroethene	µg/L	5	1.6 J	0.24 J	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Toluene	µg/L	1000	6.2 J	1.0 U	1.0 U	1.0 U	21	1.6	0.85 J	1.0 U
trans-1,2-Dichloroethene	µg/L	100	30	1.0 U	1.0 U	1.0 U	1.5 J	13	1.4 J	1.0 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*G6-05*	*G6-06*	*G6-07*	*G6-07*	*G6-11*	*H2M-06*	*H2M-09*	*H2U-01*
Sample ID:			*G6-05-0214*	*G6-06-0214*	*G6-07-0214*	*Y7-10-0214*	*G6-11-0214*	*H2M-06-0214*	*H2M-09-0214*	*H2U-01-0214*
Sample Date:			*02/06/2014*	*02/06/2014*	*02/06/2014*	*02/06/2014 (Duplicate)*	*02/07/2014*	*03/25/2014*	*03/25/2014*	*03/25/2014*
Parameters	***Units***	***Screening Level***								
VOCs-Continued										
trans-1,3-Dichloropropene	µg/L	0.44	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Trichloroethene	µg/L	5	95	1.2	0.50 J	0.51 J	2.4 J	6.2	2.8 J	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	NA	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Vinyl acetate	µg/L	NA	10 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	3.0 U	1.0 U
Vinyl chloride	µg/L	2	43	1.0 U	1.0 U	1.0 U	1.5 J	1.0 U	3.0 U	1.0 U
Xylenes (total)	µg/L	10000	30 U	3.0 U	3.0 U	3.0 U	30	2.5 J	6.2 J	3.0 U
Semi-volatile Organic Compounds (SVOCs)										
2,4,6-Trichlorophenol	µg/L	6.1	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
2,4-Dichlorophenol	µg/L	110	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
2,4-Dimethylphenol	µg/L	730	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	R	R	R
Estimated concentration	µg/L	73	48 U	48 U	48 U	48 U	48 U	50 U	50 U	50 U
2-Chloronaphthalene	µg/L	490	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
2-Chlorophenol	µg/L	30	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
2-Nitrophenol	µg/L	50	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
4,6-Dinitro-2-methylphenol	µg/L	3.7	48 U	48 U	48 U	48 U	48 U	50 U	50 U	50 U
4-Chloro-3-methylphenol	µg/L	50	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
4-Nitrophenol	µg/L	50	48 U	48 U	48 U	48 U	48 U	50 U	50 U	50 U
Acenaphthene	µg/L	370	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Acenaphthylene	µg/L	310	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Anthracene	µg/L	1800	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Benzo(a)anthracene	µg/L	0.092	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Benzo(a)pyrene	µg/L	0.2	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Benzo(b)fluoranthene	µg/L	0.092	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Benzo(g,h,i)perylene	µg/L	310	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
bis(2-Chloroethoxy)methane	µg/L	5	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	19 U	19 U	19 U	19 U	19 U	20 U	20 U	20 U
Butyl benzylphthalate (BBP)	µg/L	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Chrysene	µg/L	9.2	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Dibenz(a,h)anthracene	µg/L	0.0092	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Diethyl phthalate	µg/L	29000	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Dimethyl phthalate	µg/L	370000	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Di-n-butylphthalate (DBP)	µg/L	3700	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Di-n-octyl phthalate (DnOP)	µg/L	1500	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Fluoranthene	µg/L	1500	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Fluorene	µg/L	240	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*G6-05*	*G6-06*	*G6-07*	*G6-07*	*G6-11*	*H2M-06*	*H2M-09*	*H2U-01*
Sample ID:			*G6-05-0214*	*G6-06-0214*	*G6-07-0214*	*Y7-10-0214*	*G6-11-0214*	*H2M-06-0214*	*H2M-09-0214*	*H2U-01-0214*
Sample Date:			*02/06/2014*	*02/06/2014*	*02/06/2014*	*02/06/2014 (Duplicate)*	*02/07/2014*	*03/25/2014*	*03/25/2014*	*03/25/2014*
Parameters	***Units***	***Screening Level***								
SOVs-Continued										
Hexachlorobenzene	µg/L	1	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Hexachlorobutadiene	µg/L	0.86	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Hexachlorocyclopentadiene	µg/L	50	R	R	R	R	48 U	50 U	50 U	50 U
Hexachloroethane	µg/L	4.8	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Indeno(1,2,3-cd)pyrene	µg/L	0.092	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Isophorone	µg/L	70	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Naphthalene	µg/L	6.5	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	1.0 J	10 U	9.9 U
Octachlorocyclopentene	µg/L	NA	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Pentachlorophenol	µg/L	1	48 U	48 U	48 U	48 U	48 U	50 U	50 U	50 U
Phenanthrene	µg/L	310	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Phenol	µg/L	11000	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Pyrene	µg/L	180	9.6 U	9.6 U	9.6 U	9.6 U	9.5 U	9.9 U	10 U	9.9 U
Organic Acid										
2-Chlorobenzoic acid	µg/L	7300	1200	30 U	30 U	30 U	30 U	5.9 J	30 U	30 U
3-Chlorobenzoic acid	µg/L	7300	5000	30 U	30 U	30 U	30 U	190	13 J	30 U
4-Chlorobenzoic acid	µg/L	7300	6900	300 U	300 U	300 U	300 U	14 J	300 U	300 U
Benzoic acid	µg/L	150000	200 U	100 U	100 U	100 U	100 U	230	100 U	100 U
Chlorendic acid	µg/L	50	290 J	250 U	250 U	250 U	250 U	33 J	38 J	250 U
General Chemistry										
Sulfate	mg/L	NA	740	230	240	240	1300 J	1600	1700	120

Notes:

mg/L	Milligrams per liter
µg/L	Micrograms per liter
J	Estimated concentration
NA	Not available
U	Non-detect at associated value
R	Data rejected
	Value exceeds associated screening level

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*H2U-02*	*H5-02*	*H5-04*	*H5-05*	*H5-07*	*H5-09*	*I1-01*	*I1-02*
Sample ID:			*H2U-02-0214*	*H5-02-0214*	*H5-04-0214*	*H5-05-0214*	*H5-07-0214*	*H5-09-0214*	*I1-01-0214*	*I1-02-0214*
Sample Date:			*03/25/2014*	*02/05/2014*	*02/05/2014*	*02/04/2014*	*02/05/2014*	*02/04/2014*	*02/25/2014*	*02/25/2014*
Parameters	***Units***	***Screening Level***								
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	µg/L	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.053	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	800	2.6	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.72 J	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.6	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	5	0.54 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	180	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.8	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.0 U	1.0 U
2-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	19	1.0 U	1.0 U
3-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	5	4.3	1.0 U	1.0 U	1.0 U	0.74 J	7.2	1.0 U	1.0 U
Bromodichloromethane	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	8.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	2.2	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	23	1.0 U	1.0 U
Chloroethane	µg/L	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	190	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	70	0.68 J	1.0 U	1.0 U	1.0 U	1.0 U	0.35 J	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	350	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	1.0 U	1.0 U
Methylene chloride	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.0	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.7	1.0 U	1.0 U
Styrene	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J	3.1	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	100	16	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*H2U-02*	*H5-02*	*H5-04*	*H5-05*	*H5-07*	*H5-09*	*I1-01*	*I1-02*
Sample ID:			*H2U-02-0214*	*H5-02-0214*	*H5-04-0214*	*H5-05-0214*	*H5-07-0214*	*H5-09-0214*	*I1-01-0214*	*I1-02-0214*
Sample Date:			*03/25/2014*	*02/05/2014*	*02/05/2014*	*02/04/2014*	*02/05/2014*	*02/04/2014*	*02/25/2014*	*02/25/2014*
Parameters	***Units***	***Screening Level***								
VOCs-Continued										
trans-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	2	4.4	1.0 U	1.0 U	1.0 U	1.0 U	0.60 J	1.0 U	1.0 U
Xylenes (total)	µg/L	10000	3.0 U	3.0 U	3.0 U	3.0 U	1.1 J	2.3 J	3.0 U	3.0 U
Semi-volatile Organic Compounds (SVOCs)										
2,4,6-Trichlorophenol	µg/L	6.1	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
2,4-Dichlorophenol	µg/L	110	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	0.98 J	9.5 U	9.6 U
2,4-Dimethylphenol	µg/L	730	R	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Estimated concentration	µg/L	73	48 U	48 U	48 U	48 U	48 U	48 U	48 U	48 U
2-Chloronaphthalene	µg/L	490	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
2-Chlorophenol	µg/L	30	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
2-Nitrophenol	µg/L	50	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
4,6-Dinitro-2-methylphenol	µg/L	3.7	48 U	48 U	48 U	48 U	48 U	48 U	48 U	48 U
4-Chloro-3-methylphenol	µg/L	50	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
4-Nitrophenol	µg/L	50	48 U	48 U	48 U	48 U	48 U	48 U	48 U	48 U
Acenaphthene	µg/L	370	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Acenaphthylene	µg/L	310	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Anthracene	µg/L	1800	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Benzo(a)anthracene	µg/L	0.092	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Benzo(a)pyrene	µg/L	0.2	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Benzo(b)fluoranthene	µg/L	0.092	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Benzo(g,h,i)perylene	µg/L	310	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
bis(2-Chloroethoxy)methane	µg/L	5	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	NA	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Chrysene	µg/L	9.2	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Dibenz(a,h)anthracene	µg/L	0.0092	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Diethyl phthalate	µg/L	29000	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Dimethyl phthalate	µg/L	370000	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Di-n-butylphthalate (DBP)	µg/L	3700	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Di-n-octyl phthalate (DnOP)	µg/L	1500	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Fluoranthene	µg/L	1500	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Fluorene	µg/L	240	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*H2U-02*	*H5-02*	*H5-04*	*H5-05*	*H5-07*	*H5-09*	*I1-01*	*I1-02*
Sample ID:			*H2U-02-0214*	*H5-02-0214*	*H5-04-0214*	*H5-05-0214*	*H5-07-0214*	*H5-09-0214*	*I1-01-0214*	*I1-02-0214*
Sample Date:			*03/25/2014*	*02/05/2014*	*02/05/2014*	*02/04/2014*	*02/05/2014*	*02/04/2014*	*02/25/2014*	*02/25/2014*
Parameters	***Units***	***Screening Level***								
SOVs-Continued										
Hexachlorobenzene	µg/L	1	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Hexachlorobutadiene	µg/L	0.86	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Hexachlorocyclopentadiene	µg/L	50	48 U	R	R	R	R	R	48 U	48 U
Hexachloroethane	µg/L	4.8	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Indeno(1,2,3-cd)pyrene	µg/L	0.092	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Isophorone	µg/L	70	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Naphthalene	µg/L	6.5	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Octachlorocyclopentene	µg/L	NA	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Pentachlorophenol	µg/L	1	48 U	48 U	48 U	48 U	48 U	48 U	48 U	48 U
Phenanthrene	µg/L	310	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Phenol	µg/L	11000	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Pyrene	µg/L	180	9.6 U	9.5 U	9.5 U	9.6 U	9.5 U	9.5 U	9.5 U	9.6 U
Organic Acid										
2-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7300	16 J	30 U	30 U	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7300	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	93 J	250 U	250 U	250 U	250 U	83 J	250 U	250 U
General Chemistry										
Sulfate	mg/L	NA	160	160	970	1200	1800	1500	410	360

Notes:

mg/L	Milligrams per liter
µg/L	Micrograms per liter
J	Estimated concentration
NA	Not available
U	Non-detect at associated value
R	Data rejected
	Value exceeds associated screening level

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*I1-04*	*I1-07*	*I1-07*	*J6-02*	*J6-04*	*J6-05*	*J6-07*	*J6-11*
Sample ID:			*I1-04-0214*	*I1-07-0214*	*Z7-10-0214*	*J6-02-0214*	*J6-04-0214*	*J6-05-0214*	*J6-07-0214*	*J6-11-0214*
Sample Date:			*02/25/2014*	*02/25/2014*	*02/25/2014 (Duplicate)*	*02/19/2014*	*02/19/2014*	*02/19/2014*	*02/19/2014*	*02/19/2014*
Parameters	***Units***	***Screening Level***								
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	µg/L	200	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.053	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethane	µg/L	800	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethene	µg/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	5.0 U
1,2-Dichloroethane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloropropane	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	180	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	5.0 U
2-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.1	5.0 U
3-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
4-Chlorotoluene	µg/L	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Benzene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	64
Bromodichloromethane	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Bromoform	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/L	8.5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Carbon disulfide	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Carbon tetrachloride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chlorobenzene	µg/L	100	1.0 U	1.2	1.1	1.0 U	1.0 U	1.0 U	10	5.0 U
Chloroethane	µg/L	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	80	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	190	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	70	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.89 J	5.0 U
cis-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	350	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	5.0 U
Ethylbenzene	µg/L	700	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 J
Methylene chloride	µg/L	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
m-Monochlorobenzotrifluoride	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 J	5.0 U
o-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.80 J	5.0 U
p-Monochlorobenzotrifluoride	µg/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.6	5.0 U
Styrene	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Tetrachloroethene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Toluene	µg/L	1000	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*I1-04*	*I1-07*	*I1-07*	*J6-02*	*J6-04*	*J6-05*	*J6-07*	*J6-11*
Sample ID:			*I1-04-0214*	*I1-07-0214*	*Z7-10-0214*	*J6-02-0214*	*J6-04-0214*	*J6-05-0214*	*J6-07-0214*	*J6-11-0214*
Sample Date:			*02/25/2014*	*02/25/2014*	*02/25/2014 (Duplicate)*	*02/19/2014*	*02/19/2014*	*02/19/2014*	*02/19/2014*	*02/19/2014*
Parameters	***Units***	***Screening Level***								
VOCs-Continued										
trans-1,3-Dichloropropene	µg/L	0.44	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Trichloroethene	µg/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Vinyl acetate	µg/L	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Vinyl chloride	µg/L	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.83 J	5.0 U
Xylenes (total)	µg/L	10000	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	4.9 J
Semi-volatile Organic Compounds (SVOCs)										
2,4,6-Trichlorophenol	µg/L	6.1	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
2,4-Dichlorophenol	µg/L	110	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
2,4-Dimethylphenol	µg/L	730	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Estimated concentration	µg/L	73	48 U	48 U	49 U	48 U	48 U	48 U	48 U	47 U
2-Chloronaphthalene	µg/L	490	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
2-Chlorophenol	µg/L	30	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
2-Nitrophenol	µg/L	50	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
4,6-Dinitro-2-methylphenol	µg/L	3.7	48 U	48 U	49 U	48 U	48 U	48 U	48 U	47 U
4-Chloro-3-methylphenol	µg/L	50	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
4-Nitrophenol	µg/L	50	48 U	48 U	49 U	48 U	48 U	48 U	48 U	47 U
Acenaphthene	µg/L	370	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Acenaphthylene	µg/L	310	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Anthracene	µg/L	1800	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Benzo(a)anthracene	µg/L	0.092	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Benzo(a)pyrene	µg/L	0.2	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Benzo(b)fluoranthene	µg/L	0.092	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Benzo(g,h,i)perylene	µg/L	310	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
bis(2-Chloroethoxy)methane	µg/L	5	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	19 U	19 U	19 U	19 U	19 U	19 U	19 U	19 U
Butyl benzylphthalate (BBP)	µg/L	NA	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Chrysene	µg/L	9.2	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Dibenz(a,h)anthracene	µg/L	0.0092	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Diethyl phthalate	µg/L	29000	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Dimethyl phthalate	µg/L	370000	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Di-n-butylphthalate (DBP)	µg/L	3700	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Di-n-octyl phthalate (DnOP)	µg/L	1500	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Fluoranthene	µg/L	1500	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Fluorene	µg/L	240	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U

TABLE 3.8

ANALYTICAL RESULTS SUMMARY
FIFTH QUARTER GROUP A BEDROCK PIEZOMETER SAMPLING
FIRST QUARTER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:			*I1-04*	*I1-07*	*I1-07*	*J6-02*	*J6-04*	*J6-05*	*J6-07*	*J6-11*
Sample ID:			*I1-04-0214*	*I1-07-0214*	*Z7-10-0214*	*J6-02-0214*	*J6-04-0214*	*J6-05-0214*	*J6-07-0214*	*J6-11-0214*
Sample Date:			*02/25/2014*	*02/25/2014*	*02/25/2014 (Duplicate)*	*02/19/2014*	*02/19/2014*	*02/19/2014*	*02/19/2014*	*02/19/2014*
Parameters	***Units***	***Screening Level***								
SOVs-Continued										
Hexachlorobenzene	µg/L	1	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Hexachlorobutadiene	µg/L	0.86	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Hexachlorocyclopentadiene	µg/L	50	48 U	48 U	49 U	48 U	48 U	R	48 U	47 U
Hexachloroethane	µg/L	4.8	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Indeno(1,2,3-cd)pyrene	µg/L	0.092	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Isophorone	µg/L	70	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Naphthalene	µg/L	6.5	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Octachlorocyclopentene	µg/L	NA	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Pentachlorophenol	µg/L	1	48 U	48 U	49 U	48 U	48 U	48 U	48 U	47 U
Phenanthrene	µg/L	310	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Phenol	µg/L	11000	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Pyrene	µg/L	180	9.6 U	9.6 U	9.7 U	9.6 U	9.6 U	9.6 U	9.6 U	9.4 U
Organic Acid										
2-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
3-Chlorobenzoic acid	µg/L	7300	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U
4-Chlorobenzoic acid	µg/L	7300	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
Benzoic acid	µg/L	150000	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Chlorendic acid	µg/L	50	250 U	33 J	39 J	250 U	250 U	250 U	130 J	250 U
General Chemistry										
Sulfate	mg/L	NA	780	1400	1400	250	230	220	1400	1500

Notes:

mg/L	Milligrams per liter
µg/L	Micrograms per liter
J	Estimated concentration
NA	Not available
U	Non-detect at associated value
R	Data rejected
	Value exceeds associated screening level

TABLE 3.9

2014 ANALYTICAL RESULTS SUMMARY
ANNUAL AFW COMPOSITE
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

		Sample Location:	***AFWCOMPOSITE***
		Sample ID:	***AFW-C-1114***
		Sample Date:	***10/31/2014***
Parameters	***Units***	***Reporting Level***	
Polychlorinated Biphenyls (PCBs)			
Pentachlorobiphenyl	µg/L	1	0.19 U
Tetrachlorobiphenyl	µg/L	1	0.19 U
Trichlorobiphenyl	µg/L	1	0.097 U
Pesticides			
alpha-BHC	µg/L	1	0.047 U
beta-BHC	µg/L	1	0.047 U
delta-BHC	µg/L	1	0.041 J
gamma-Chlordane	µg/L	1	0.047 U
Mirex	µg/L	1	0.047 U
Dioxin Furans			
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/L	500	9.47 U

Notes:

BHC	Benzene Hexachloride
pg/L	Picograms per liter
µg/L	Micrograms per liter
--	No reporting level established
J	Estimated concentration
U	Non-detect at associated value

TABLE 3.10

2014 QUARTERLY HYDRAULIC GRADIENT SUMMARY
COMMUNITY MONITORING PROGRAM
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Gradient Pairing		3/19/2014			6/24/2014			9/30/2014			12/10/2013		
		Overburden Elevation (ft. AMSL)	Bedrock Elevation (ft. AMSL)	Gradient (ft./ft.)	Overburden Elevation (ft. AMSL)	Bedrock Elevation (ft. AMSL)	Gradient (ft./ft.)	Overburden Elevation (ft. AMSL)	Bedrock Elevation (ft. AMSL)	Gradient (ft./ft.)	Overburden Elevation (ft. AMSL)	Bedrock Elevation (ft. AMSL)	Gradient (ft./ft.)
CMW-1OB	CMW-1SH	572.03	564.39	0.695	571.75	563.89	0.715	571.40	563.08	0.756	572.36	563.28	0.825
CMW-2OB	CMW-2SH	589.90	572.03	1.250	588.85	572.04	1.176	584.28	570.93	0.934	584.22	571.29	0.904
CMW-3OB	CMW-3SH	580.19	551.05	2.081	575.73	549.44	1.878	573.74	548.42	1.809	572.07	548.39	1.691
CMW-4OB	CMW-4SH	≥ 574.28	567.52	0.573	≥ 574.28	566.76	0.637	573.73	566.08	0.648	≥ 574.28	566.40	0.668
CMW-5OB	CMW-5SH	≥ 589.43	≥ 583.36	0.384	≥ 589.43	578.55	0.689	581.74	574.50	0.458	583.15	576.04	0.450
CMW-6OB	CMW-6SH	≥ 571.89	562.16	1.014	571.73	562.31	0.981	571.75	561.71	1.046	571.61	561.53	1.050
CMW-7OB	CMW-7SH	- (1)	≥ 610.58	0.029	- (1)	599.99	0.770	- (1)	598.65	0.864	- (1)	598.23	0.893
CMW-8OB	CMW-8SH	612.86	611.25	0.155	612.87	610.23	0.254	- (2)	605.92	0.980	- (2)	605.70	1.001
CMW-9OB	CMW-9SH	569.44	560.35	1.748	- (3)	560.01	2.260	- (3)	559.76	2.308	569.32	559.89	1.813
CMW-11OB	CMW-11SH	569.63	565.07	0.475	568.88	565.11	0.393	568.98	564.98	0.417	569.24	564.99	0.443
CMW-12OB	CMW-12SH	588.23	570.17	0.961	587.49	569.87	0.937	574.86	568.81	0.322	573.29	569.14	0.221

Notes:

ft. AMSL Feet Above Mean Sea Level
Dry No water present in well
Negative number indicates an upward vertical gradient. Positive number indicates a downward vertical gradient.
Surcharged Well full of water to top of casing
NA Not available
(1) Well CMW-7OB was recorded as inaccessible/not available during this event. Bottom of well depth (611.0 ft. AMSL) was used to calculate gradient.
(2) Well CMW-8OB was recorded as dry during this event. Bottom of well depth (616.11 ft. AMSL) was used to calculate gradient.
(3) Well CMW-9OB was recorded as dry during this event. Bottom of well depth (571.76 ft. AMSL) was used to calculate gradient.

TABLE 3.11

2014 COMMUNITY MONITORING WELL SOIL VAPOR MONITORING
COMMUNITY MONITORING PROGRAM
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

September 17, 2014
Sun, 60°F, Winds NW 5-10 MPH

Well I.D.	*Time Intervals*	*Sampling Time (hhmm)*	*VOC Readings (ppmv)*
SVP-1	Background	1248	0
	At 1 minute	1249	0
	At 2 minutes	1250	0
	At 3 minutes	1251	0
	At 4 minutes	1252	0
	At 5 minutes	1253	0
	At 6 minutes	1254	0
	At 7 minutes	1255	0
	At 8 minutes	1256	0
	At 9 minutes	1257	0
	At 10 minutes	1258	0
SVP-2	Background	1420	0
	At 1 minute	1421	1.582
	At 2 minutes	1422	1.668
	At 3 minutes	1423	2.122
	At 4 minutes	1424	1.967
	At 5 minutes	1425	2.157
	At 6 minutes	1426	2.467
	At 7 minutes	1427	2.931
	At 8 minutes	1428	3.162
	At 9 minutes	1429	3.041
	At 10 minutes	1430	2.750
SVP-3	Background	1355	0
	At 1 minute	1356	1.007
	At 2 minutes	1357	0.733
	At 3 minutes	1358	0.469
	At 4 minutes	1359	0.408
	At 5 minutes	1400	0.119
	At 6 minutes	1401	0.096
	At 7 minutes	1402	0.108
	At 8 minutes	1403	0.124
	At 9 minutes	1404	0.144
	At 10 minutes	1405	0.168

TABLE 3.11

2014 COMMUNITY MONITORING WELL SOIL VAPOR MONITORING
COMMUNITY MONITORING PROGRAM
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

September 17, 2014
Sun, 60°F, Winds NW 5-10 MPH

Well I.D.	*Time Intervals*	*Sampling Time (hhmm)*	*VOC Readings (ppmv)*
SVP-4	Background	1407	0
	At 1 minute	1408	0.293
	At 2 minutes	1409	0.280
	At 3 minutes	1410	0.240
	At 4 minutes	1411	0.216
	At 5 minutes	1412	0.206
	At 6 minutes	1413	0.209
	At 7 minutes	1414	0.264
	At 8 minutes	1415	0.286
	At 9 minutes	1416	0.334
	At 10 minutes	1417	0.356
CMW-7OB	Background	1209	0
	At 1 minute	1210	1.028
Estimated concentrat	At 2 minutes	1211	0.688
	At 3 minutes	1212	0.064
	At 4 minutes	1213	0.907
	At 5 minutes	1214	1.851
	At 6 minutes	1215	1.633
	At 7 minutes	1216	1.118
	At 8 minutes	1217	2.368
	At 9 minutes	1218	2.262
	At 10 minutes	1219	2.204
CMW-8OB	Background	1228	0
	At 1 minute	1229	1.061
	At 2 minutes	1230	3.109
	At 3 minutes	1231	2.273
	At 4 minutes	1232	5.817
	At 5 minutes	1233	0.987
	At 6 minutes	1234	0.365
	At 7 minutes	1235	0.892
	At 8 minutes	1236	1.030
	At 9 minutes	1237	0.429
	At 10 minutes	1238	1.432

Notes:

ppmv Parts per million by volume
VOC Volatile Organic Compound
MPH Miles per hour

TABLE 4.1

2014 NAPL DECANTER VOLUME MONITORING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

	Decanter #1	*Decanter #2*	*Decanter #3*
First Quarter 2014			
March 10, 2014			
Thickness (feet)	15.85	5.80	4.50
Level (%)	50	10	36
Volume[(1)] (gallons)	5,600.00	1,120.00	4,032.00
Second Quarter 2014			
June 5, 2014			
Thickness (feet)	16.80	4.25	7.60
Level (%)	49	9	34
Volume[(1)] (gallons)	5,488.00	1,008.00	3,808.00
Third Quarter 2014			
September 3, 2014			
Thickness (feet)	18.20	5.80	8.40
Level (%)	50	10	38
Volume[(1)] (gallons)	5,600.00	1,120.00	4,256.00
Fourth Quarter 2014			
December 1, 2014			
Thickness (feet)	19.55	3.68	6.10
Level (%)	50	10	32
Volume[(1)] (gallons)	5,600.00	1,120.00	3,584.00

Notes:

(1) Based on level percentage of NAPL in 11,200-gallon decanters
NAPL Non-Aqueous Phase Liquid

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP1814INT-D (interstage)*	*HP11514INT-D (interstage)*	*HP12214INT-D (interstage)*	*HP12914INT-D (interstage)*	*HP2514INT-D (interstage)*	*HP21214INT-D (interstage)*
Sample Date:		*1/8/2014*	*1/15/2014*	*1/22/2014*	*1/29/2014*	*2/5/2014*	*2/12/2014*
Parameters	***Units***						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.20 J	1.0 U	0.37 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	0.37 J	0.67 J	0.72 J	0.75 J	1.0	1.9
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.3 U	2.1
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.99 J	1.8	1.8	2.0	3.3	9.8
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 J

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

	Sample Location:	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***
	Sample ID:	***HP1814INT-D (interstage)***	***HP11514INT-D (interstage)***	***HP12214INT-D (interstage)***	***HP12914INT-D (interstage)***	***HP2514INT-D (interstage)***	***HP21214INT-D (interstage)***
	Sample Date:	***1/8/2014***	***1/15/2014***	***1/22/2014***	***1/29/2014***	***2/5/2014***	***2/12/2014***
Parameters	***Units***						
VOCS-Continued							
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	110	130	140	140	150	190
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:

APL	Aqueous Phase Liquid
J	Estimated concentration
U	Not present at or above the associated value
µg/L	Micrograms per liter
UJ	The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP21914INT-D (interstage)*	*HP22614 INT-D (interstage)*	*HP3514INT-D (interstage)*	*HP31214INT-D (interstage)*	*HP31914 INT-D (interstage)*	*HP32614INT-D (interstage)*
Sample Date:		*2/19/2014*	*2/26/2014*	*03/05/2014*	*03/12/2014*	*03/19/2014*	*03/26/2014*
Parameters	***Units***						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	0.28 J	0.41 J	0.39 J	0.39 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.8	2.4	2.2	2.4	2.4	3.8
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	0.23 J	0.33 J	0.24 J	0.26 J	0.26 J	0.34 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	0.89 J	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.5 U	3.3 U	2.5 U	2.3 U	2.5 U	3.2
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	7.3	11	11	11	12	18
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.16 J	0.24 J	0.14 J	0.18 J	1.0 U	1.0 U

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

	Sample Location:	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***
	Sample ID:	***HP21914INT-D (interstage)***	***HP22614 INT-D (interstage)***	***HP3514INT-D (interstage)***	***HP31214INT-D (interstage)***	***HP31914 INT-D (interstage)***	***HP32614INT-D (interstage)***
	Sample Date:	***2/19/2014***	***2/26/2014***	***03/05/2014***	***03/12/2014***	***03/19/2014***	***03/26/2014***
Parameters	***Units***						
VOCS-Continued							
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	240	180	200	190	200	240
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:

APL	Aqueous Phase Liquid
J	Estimated concentration
U	Not present at or above the associated value
µg/L	Micrograms per liter
UJ	The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP4214INT-D (interstage)*	*HP4914 INT-D (interstage)*	*HP41614I NT-D (interstage)*	*HP42314INT-D (interstage)*	*HP43014INT-D (interstage)*	*HP5714 INT-D (interstage)*
Sample Date:		*4/2/2014*	*4/9/2014 (orig)*	*4/16/2014 (orig)*	*4/23/2014 (orig)*	*4/30/2014 (orig)*	*5/7/2014*
Parameters	***Units***						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethane	µg/L	0.52 J	1.0 U	0.78 J	1.0	1.0 U	1.0 UJ
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloroethane	µg/L	3.5	3.7	4.7	6.0	5.8 J	4.7 J
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Benzene	µg/L	0.30 J	0.37 J	0.50 J	0.61 J	0.49 J	0.46 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroform (Trichloromethane)	µg/L	2.4	2.4 U	2.7	2.8	2.0 J	1.6 J
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
cis-1,2-Dichloroethene	µg/L	17	21	26	31	30 J	26 J
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichloroethene	µg/L	1.0 U	0.16 J	0.24 J	0.25 J	1.0 U	0.19 J

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP4214INT-D (interstage)*	*HP4914 INT-D (interstage)*	*HP41614I NT-D (interstage)*	*HP42314INT-D (interstage)*	*HP43014INT-D (interstage)*	*HP5714 INT-D (interstage)*
Sample Date:		*4/2/2014*	*4/9/2014*	*4/16/2014*	*4/23/2014*	*4/30/2014*	*5/7/2014*
			(orig)	*(orig)*	*(orig)*	*(orig)*	
Parameters	***Units***						
VOCS-Continued							
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl chloride	µg/L	240	230	240	320	320	260 J
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 UJ

Notes:

APL	Aqueous Phase Liquid
J	Estimated concentration
U	Not present at or above the associated value
µg/L	Micrograms per liter
UJ	The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP51514 INT-D (interstage)*	*HP52114INT-D (interstage)*	*HP52814INT-D (interstage)*	*HP6414 INT-D (interstage)*	*HP61114 INT-D (interstage)*	*HP61814INT-D (interstage)*
Sample Date:		*5/14/2014*	*5/21/2014*	*5/28/2014*	*6/4/2014*	*6/11/2014*	*6/18/2014*
Parameters	***Units***						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	0.98 J	1.1	1.1	1.7	1.9	1.6
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	0.35 J	1.0 U	0.33 J
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	5.5	5.7	6.1	8.8	9.4	10
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	0.58 J	0.50 J	0.63 J	0.69 J	0.84 J	0.69 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	0.26 J	0.21 J	1.0 U	0.58 J	0.76 J	0.46 J
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.9	1.4	1.6	1.7	1.8	1.4
Chloromethane (Methyl chloride)	µg/L	1.0 U	2.5 J	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	30	32	37	37	51	62
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.22 J	0.25 J	0.28 J	0.28 J	0.18 J	0.26 J

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***
Sample ID:		***HP51514 INT-D (interstage)***	***HP52114INT-D (interstage)***	***HP52814INT-D (interstage)***	***HP6414 INT-D (interstage)***	***HP61114 INT-D (interstage)***	***HP61814INT-D (interstage)***
Sample Date:		***5/14/2014***	***5/21/2014***	***5/28/2014***	***6/4/2014***	***6/11/2014***	***6/18/2014***
Parameters	***Units***						
VOCS-Continued							
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	260	260	270	310	360	390
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:

APL	Aqueous Phase Liquid
J	Estimated concentration
U	Not present at or above the associated value
µg/L	Micrograms per liter
UJ	The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP62514INT-D (interstage)*	*HP7214 INT-D (interstage)*	*HP7914INT-D (interstage)*	*HP71614INT-D (interstage)*	*HP72314 INT-D (interstage)*	*HP73014INT-D (interstage)*
Sample Date:		*6/25/2014*	*7/2/2014*	*7/9/2014*	*7/16/2014*	*7/23/2014*	*7/30/2014*
Parameters	***Units***						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 J
1,1-Dichloroethane	µg/L	1.7	1.9	2.4	2.4	2.7	2.5
1,1-Dichloroethene	µg/L	0.44 J	1.0 U	0.56 J	0.60 J	0.53 J	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	10	12	13	13	14	14
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	0.65 J	0.60 J	0.73 J	0.80 J	0.82 J	0.77 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	0.81 J	0.58 J	0.79 J	1.1	0.94 J	0.70 J
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.4	1.3	1.7	1.7	1.7	1.8
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	51	59 J	67	74	81	75
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	0.21 J	0.19 J	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.23 J	0.20 J	0.23 J	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.28 J	0.29 J	0.30 J	0.29 J	0.31 J	0.31 J

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP62514INT-D (interstage)*	*HP7214 INT-D (interstage)*	*HP7914INT-D (interstage)*	*HP71614INT-D (interstage)*	*HP72314 INT-D (interstage)*	*HP73014INT-D (interstage)*
Sample Date:		*6/25/2014*	*7/2/2014*	*7/9/2014*	*7/16/2014*	*7/23/2014*	*7/30/2014*
Parameters	***Units***						
VOCS-Continued							
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	310	380 J	420	530	650	650
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:

APL	Aqueous Phase Liquid
J	Estimated concentration
U	Not present at or above the associated value
µg/L	Micrograms per liter
UJ	The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP8614 INT-D (interstage)*	*HP81314 INT-D (interstage)*	*HP81814 INT-D (interstage)*	*HP82714 INT-D (interstage)*	*HP9414INT-D (interstage)*	*HP91114INT-D (interstage)*
Sample Date:		*8/6/2014*	*8/13/2014*	*8/18/2014*	*8/27/2014*	*9/4/2014*	*9/11/2014*
Parameters	***Units***						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.21 J	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J
1,1-Dichloroethane	µg/L	2.7	2.1	2.1	2.7	3.1	3.0
1,1-Dichloroethene	µg/L	0.66 J	0.60 J	0.57 J	0.75 J	0.78 J	0.69 J
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	16	13	13	16	18	18
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	0.91 J	0.75 J	0.79 J	1.0	0.93 J	1.2
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	0.72 J	0.44 J	0.33 J	1.0 U	0.65 J	0.89 J
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	2.4	1.8	1.9	3.2	3.1	4.7
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	72	69	68	89	98	100
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	0.26 J	0.22 J	0.21 J	0.30 J	0.29 J	0.22 J
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.35 J	0.30 J	0.24 J	0.34 J	0.35 J	0.46 J

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***
Sample ID:		***HP8614 INT-D (interstage)***	***HP81314 INT-D (interstage)***	***HP81814 INT-D (interstage)***	***HP82714 INT-D (interstage)***	***HP9414INT-D (interstage)***	***HP91114INT-D (interstage)***
Sample Date:		***8/6/2014***	***8/13/2014***	***8/18/2014***	***8/27/2014***	***9/4/2014***	***9/11/2014***
Parameters	***Units***						
VOCS-Continued							
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	0.22 J	1.0 U	0.23 J	1.0 U	1.0 U
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	640	450	470	680	900	880
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:

APL	Aqueous Phase Liquid
J	Estimated concentration
U	Not present at or above the associated value
µg/L	Micrograms per liter
UJ	The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP91614INT-D (interstage)*	*HP92414INT-D (interstage)*	*HP10114 INT-D (interstage)*	*HP10814 INT-D (interstage)*	*HP101514INT-D (interstage)*	*HP102214 INT-D (interstage)*
Sample Date:		*9/16/2014*	*9/24/2014*	*10/1/2014*	*10/8/2014*	*10/15/2014*	*10/22/2014*
Parameters	***Units***						
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	0.26 J	0.23 J	1.0 U	40 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	0.25 J	0.22 J	0.21 J	40 U	0.23 J
1,1-Dichloroethane	µg/L	3.0	2.9	2.8	3.4	40 U	3.4
1,1-Dichloroethene	µg/L	0.78 J	0.70 J	0.75 J	0.92 J	40 U	0.92 J
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
1,2-Dichloroethane	µg/L	17	17	16	20	18 J	17
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Benzene	µg/L	1.0	1.5	1.4	1.3	40 U	1.4
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Carbon disulfide	µg/L	0.83 J	0.34 J	0.43 J	0.39 J	40 U	0.72 J
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Chloroform (Trichloromethane)	µg/L	4.6	8.7	8.6	8.8	8.2 J	13
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
cis-1,2-Dichloroethene	µg/L	96	100	95	84	86	110
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Methylene chloride	µg/L	1.0 U	0.31 J	1.0 U	1.0 U	40 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
trans-1,2-Dichloroethene	µg/L	0.31 J	0.35 J	0.36 J	0.33 J	40 U	0.34 J
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Trichloroethene	µg/L	0.42 J	0.39 J	0.36 J	0.45 J	40 U	0.40 J

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***
Sample ID:		***HP91614INT-D (interstage)***	***HP92414INT-D (interstage)***	***HP10114 INT-D (interstage)***	***HP10814 INT-D (interstage)***	***HP101514INT-D (interstage)***	***HP102214 INT-D (interstage)***
Sample Date:		***9/16/2014***	***9/24/2014***	***10/1/2014***	***10/8/2014***	***10/15/2014***	***10/22/2014***
Parameters	***Units***						
VOCS-Continued							
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	0.30 J	40 U	1.0 U
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	40 U	1.0 U
Vinyl chloride	µg/L	850	820	620	870	980	1100
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	120 U	3.0 U

Notes:

APL	Aqueous Phase Liquid
J	Estimated concentration
U	Not present at or above the associated value
µg/L	Micrograms per liter
UJ	The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP102914 INT-D (interstage)*	*HP11514 INT-D (interstage)*	*HP111214 INT-D (interstage)*	*HP112014INT-D (interstage)*	*HP112514 INT-D (interstage)*
Sample Date:		*10/29/2014*	*11/5/2014*	*11/12/2014*	*11/20/2014*	*11/25/2014*
Parameters	***Units***					
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	0.24 J	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	0.26 J	0.29 J	0.22 J	0.24 J	1.0 U
1,1-Dichloroethane	µg/L	3.3	3.8	3.3	2.7	2.4
1,1-Dichloroethene	µg/L	0.87 J	0.91 J	0.89 J	0.74 J	0.65 J
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	18	21	19	13	13
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Benzene	µg/L	1.4	2.1	1.6	1.3	1.3
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	0.72 J	1.5	0.87 J	0.31 J	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	13	21	16	10	8.6
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	110	110	82	78	75
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	0.44 J	0.45 J	0.37 J	0.32 J	0.27 J
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.42 J	0.54 J	0.41 J	0.34 J	0.31 J

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***
Sample ID:		***HP102914 INT-D (interstage)***	***HP11514 INT-D (interstage)***	***HP111214 INT-D (interstage)***	***HP112014INT-D (interstage)***	***HP112514 INT-D (interstage)***
Sample Date:		***10/29/2014***	***11/5/2014***	***11/12/2014***	***11/20/2014***	***11/25/2014***
Parameters	***Units***					
VOCS-Continued						
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1100	1100	940	860	780
Xylenes (total)	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U

Notes:

APL	Aqueous Phase Liquid
J	Estimated concentration
U	Not present at or above the associated value
µg/L	Micrograms per liter
UJ	The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*	*HP-INTER-D-01*
Sample ID:		*HP112513 INT-D (interstage)*	*HP12413 INT-D (interstage)*	*HP121113INT-D (interstage)*	*HP121813 INT-D (interstage)*	*HP122313 INT-D (interstage)*
Sample Date:		*12/3/2014*	*12/10/2014*	*12/17/2014*	*12/23/2015*	*12/30/2015*
Parameters	***Units***					
Volatile Organic Compounds (VOCs)						
1,1,1-Trichloroethane	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.9	2.0 J	1.8	1.6	1.6
1,1-Dichloroethene	µg/L	0.59 J	0.52 J	0.52 J	0.52 J	0.49 J
1,2,4-Trichlorobenzene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	11	11 J	10	8.7	8.4
1,2-Dichloropropane	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
2-Chlorotoluene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
3-Chlorotoluene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
4-Chlorotoluene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Benzene	µg/L	1.0	1.1 J	0.88 J	1.1	1.0
Bromodichloromethane	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	0.29 J	0.36 J	0.21 J	1.0 U
Carbon tetrachloride	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	4.8	4.4 J	3.6	2.5	2.2
Chloromethane (Methyl chloride)	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	65	56 J	53	46	53
cis-1,3-Dichloropropene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	0.23 J	R	1.0 U	1.0 U	1.0 U
m-Monochlorobenzotrifluoride	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
o-Monochlorobenzotrifluoride	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
p-Monochlorobenzotrifluoride	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Styrene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	0.24 J	0.19 J	0.25 J	0.21 J	0.26 J
trans-1,3-Dichloropropene	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.29 J	0.29 J	0.20 J	0.22 J	0.25 J

TABLE 4.2

2014 WEEKLY CARBON INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***	***HP-INTER-D-01***
Sample ID:		***HP112513 INT-D (interstage)***	***HP12413 INT-D (interstage)***	***HP121113INT-D (interstage)***	***HP121813 INT-D (interstage)***	***HP122313 INT-D (interstage)***
Sample Date:		***12/3/2014***	***12/10/2014***	***12/17/2014***	***12/23/2015***	***12/30/2015***
Parameters	***Units***					
VOCS-Continued						
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Vinyl acetate	µg/L	1.0 U	R	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	720	430 J	490	330	360
Xylenes (total)	µg/L	3.0 U	R	3.0 U	3.0 U	3.0 U

Notes:

APL	Aqueous Phase Liquid
J	Estimated concentration
U	Not present at or above the associated value
µg/L	Micrograms per liter
UJ	The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.

TABLE 4.3

2014 QUARTERLY LEACHATE FEED APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*PMPTKOUTLET*	*PMPTKOUTLET*	*PMPTKOUTLET*	*PMPTKOUTLET*
Sample ID:		*HP31914 INF*	*HP62414 INF*	*HP93014 INF*	*HP121014 INF*
Sample Date:		*3/19/2014*	*6/24/2014*	*9/30/2014*	*12/10/2014*
Parameters	***Units***				
Volatile Organic Compounds (VOCs)					
1,1,1-Trichloroethane	µg/L	20 U	50 U	200 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	57	120	190 J	100
1,1,2-Trichloroethane	µg/L	20 U	14 J	200 U	12
1,1-Dichloroethane	µg/L	20 U	50 U	200 U	10 U
1,1-Dichloroethene	µg/L	20 U	50 U	200 U	10 U
1,2,4-Trichlorobenzene	µg/L	110	670	580	560
1,2-Dichlorobenzene	µg/L	20	100	110 J	110
1,2-Dichloroethane	µg/L	20 U	21 J	200 U	21
1,2-Dichloropropane	µg/L	20 U	50 U	200 U	10 U
1,3-Dichlorobenzene	µg/L	7.6 J	28 J	34 J	27
1,4-Dichlorobenzene	µg/L	24	130	180 J	140
2-Chlorotoluene	µg/L	280	1100	1400	1100
3-Chlorotoluene	µg/L	220	50 U	200 U	10 U
4-Chlorotoluene	µg/L	20 U	820	1100	820
Benzene	µg/L	110	240	460	220
Bromodichloromethane	µg/L	20 U	50 U	200 U	10 U
Bromoform	µg/L	20 U	50 U	200 U	10 U
Bromomethane (Methyl bromide)	µg/L	20 U	50 U	200 U	10 U
Carbon disulfide	µg/L	20 U	50 U	200 U	9.0 J
Carbon tetrachloride	µg/L	22	37 J	77 J	31
Chlorobenzene	µg/L	180	800	1300	800
Chloroethane	µg/L	20 U	50 U	200 U	10 U
Chloroform (Trichloromethane)	µg/L	170	480	810	420
Chloromethane (Methyl chloride)	µg/L	20 U	50 U	200 U	10 U
cis-1,2-Dichloroethene	µg/L	180	360	620	370
cis-1,3-Dichloropropene	µg/L	20 U	50 U	200 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	20 U	50 U	200 U	10 U
Ethylbenzene	µg/L	71	270	350	280
Methylene chloride	µg/L	34	50 U	200 U	36
m-Monochlorobenzotrifluoride	µg/L	20 U	92	130 J	100
o-Monochlorobenzotrifluoride	µg/L	130	240	410	280
p-Monochlorobenzotrifluoride	µg/L	160	320	590	380
Styrene	µg/L	4.2 J	15 J	200 U	10 U
Tetrachloroethene	µg/L	200	320	950	640
Toluene	µg/L	310	1100	2200	1200
trans-1,2-Dichloroethene	µg/L	20 U	50 U	200 U	6.4 J
trans-1,3-Dichloropropene	µg/L	20 U	50 U	200 U	10 U
Trichloroethene	µg/L	150	700	860	520
Trichlorofluoromethane (CFC-11)	µg/L	20 U	50 U	200 U	2.8 J
Vinyl acetate	µg/L	20 U	50 U	200 U	10 U
Vinyl chloride	µg/L	59	71	150 J	81
Xylenes (total)	µg/L	370	1400	2100	1600
Semi-volatile Organic Compounds (SVOCs)					
2,4,6-Trichlorophenol	µg/L	9.6 U	140 U	190 U	290 U
2,4-Dichlorophenol	µg/L	9.6 U	140	250	140 J
2,4-Dimethylphenol	µg/L	9.6 U	140 U	190 U	290 UJ
2,4-Dinitrophenol	µg/L	48 U	720 U	940 U	1400 U
2-Chlorobenzoic acid	µg/L	350	1600	2100	1300
2-Chloronaphthalene	Estimated concentration	9.6 U	140 U	190 U	290 U
2-Chlorophenol	µg/L	9.6 U	140 U	190 U	290 U
2-Nitrophenol	µg/L	9.6 U	140 U	190 U	290 U

TABLE 4.3

2014 QUARTERLY LEACHATE FEED APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		*PMPTKOUTLET*	*PMPTKOUTLET*	*PMPTKOUTLET*	*PMPTKOUTLET*
Sample ID:		*HP31914 INF*	*HP62414 INF*	*HP93014 INF*	*HP121014 INF*
Sample Date:		*3/19/2014*	*6/24/2014*	*9/30/2014*	*12/10/2014*
Parameters	***Units***				
SVOCs-Continued					
3-Chlorobenzoic acid	µg/L	1200	4100	5000	3100
4,6-Dinitro-2-methylphenol	µg/L	48 U	720 U	940 U	1400 U
4-Chloro-3-methylphenol	µg/L	9.6 U	140 U	190 U	290 U
4-Chlorobenzoic acid	µg/L	1200	4000	4800	3000
4-Nitrophenol	µg/L	48 U	720 U	940 U	1400 U
Acenaphthene	µg/L	9.6 U	140 U	190 U	290 U
Acenaphthylene	µg/L	9.6 U	140 U	190 U	290 U
Anthracene	µg/L	9.6 U	140 U	190 U	290 U
Benzo(a)anthracene	µg/L	9.6 U	140 U	190 U	290 U
Benzo(a)pyrene	µg/L	9.6 U	140 U	190 U	290 U
Benzo(b)fluoranthene	µg/L	9.6 U	140 U	190 U	290 U
Benzo(g,h,i)perylene	µg/L	9.6 U	140 U	190 U	290 U
Benzoic acid	µg/L	100 U	11000	13000	8100
bis(2-Chloroethoxy)methane	µg/L	9.6 U	140 U	190 U	290 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	19 U	290 U	380 U	570 U
Butyl benzylphthalate (BBP)	µg/L	9.6 U	140 U	190 U	290 U
Chlorendic acid	µg/L	1200	2100	6300	4200
Chrysene	µg/L	9.6 U	140 U	190 U	290 U
Dibenz(a,h)anthracene	µg/L	9.6 U	140 U	190 U	290 U
Diethyl phthalate	µg/L	9.6 U	140 U	190 U	290 U
Dimethyl phthalate	µg/L	9.6 U	140 U	190 U	290 UJ
Di-n-butylphthalate (DBP)	µg/L	9.6 U	140 U	190 U	290 U
Di-n-octyl phthalate (DnOP)	µg/L	9.6 U	140 U	190 U	290 U
Fluoranthene	µg/L	9.6 U	140 U	190 U	290 U
Fluorene	µg/L	9.6 U	140 U	190 U	290 U
Hexachlorobenzene	µg/L	1.2 J	140 U	27 J	290 U
Hexachlorobutadiene	µg/L	4.1 J	19 J	46 J	28 J
Hexachlorocyclopentadiene	µg/L	48 U	720 U	940 U	1400 U
Hexachloroethane	µg/L	3.4 J	140 U	190 U	290 U
Indeno(1,2,3-cd)pyrene	µg/L	9.6 U	140 U	190 U	290 U
Isophorone	µg/L	9.6 U	140 U	190 U	290 U
Naphthalene	µg/L	9.6 U	140 U	190 U	290 U
Octachlorocyclopentene	µg/L	9.6 U	140 U	190 U	290 U
Pentachlorophenol	µg/L	48 U	720 U	940 U	1400 U
Phenanthrene	µg/L	9.6 U	140 U	190 U	290 U
Phenol	µg/L	1.2 J	780	3500	740
Pyrene	µg/L	9.6 U	140 U	190 U	290 U

Notes:

APL Aqueous Phase Liquid
J Estimated concentration
U Not present at or above the associated value
UJ The analyte was not detected above the sample quantitation limit. The reported quantitation limit is an estimated quantity.
µg/L Micrograms per liter

TABLE 4.4

2014 QUARTERLY SAC BED INTERSTAGE APL SAMPLING
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Sample Location:		***SAC INTERSTAGE***	***SAC INTERSTAGE***	***SAC INTERSTAGE***	***SAC INTERSTAGE***
Sample ID:		***HP SAC 13313***	***HP SAC 62414***	***HP SAC 93014***	***HP SAC 121014***
Sample Date:		***3/19/2014***	***6/24/2014***	***9/30/2014***	***12/10/2014***
Parameters	***Units***				
Polychlorinated Biphenyls (PCBs)					
Pentachlorobiphenyl	µg/L	0.20 U	0.19 U	0.048 J	0.21
Tetrachlorobiphenyl	µg/L	0.20 U	0.19 U	0.20 U	0.18 J
Trichlorobiphenyl	µg/L	0.62	0.096 U	0.10 U	0.10 U
Total PCBs	µg/L	0.62	0.19 U	0.048 J	0.39 J
Dioxin Furans					
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/L	94.4	264	1530	1770

Notes:

APL	Aqueous Phase Liquid
pg/L	Picograms per liter
µg/L	Micrograms per liter
J	Estimated concentration.
U	Not present at or above the associated value

TABLE 5.1

SUMMARY OF SOURCE CONTROL WELL PUMPING 2009 - PRESENT
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Month	SC-2		SC-3		SC-4		SC-5		SC-6		Total Volume Pumped (gallons)	Estimated NAPL Percentage
	NAPL Thickness (feet)	Water Level Elevation (ft. AMSL)	NAPL Thickness (feet)	Water Level Elevation (ft. AMSL)	NAPL Thickness (feet)	Water Level Elevation (ft. AMSL)	NAPL Thickness (feet)	Water Level Elevation (ft. AMSL)	NAPL Thickness (feet)	Water Level Elevation (ft. AMSL)		
January-09	2.5	602.41	0.0	598.52	1.3	616.65	0.0	Dry	0.0	611.65	4	99.9%
February-09	1.8	602.71	0.0	559.82	0.8	617.55	0.0	Dry	0.0	592.65	18	15.1%
March-09	2.3	602.71	0.0	559.82	0.3	617.55	0.0	Dry	0.0	612.15	16	17.7%
April-09	1.3	605.51	0.0	602.12	0.3	618.75	0.0	Dry	0.0	613.75	13	13.2%
May-09	1.2	604.61	0.0	602.12	0.2	618.25	0.0	Dry	0.0	613.05	33	4.3%
June-09	1.3	605.21	0.0	604.62	0.3	618.45	0.0	Dry	0.0	613.75	2	87.3%
July-09	0.9	606.31	0.0	604.72	0.5	618.75	0.0	Dry	0.0	613.95	11	13.6%
August-09	1.1	606.41	0.0	605.12	0.5	619.25	0.0	Dry	0.0	614.15	12	13.9%
September-09	1.1	606.01	0.0	605.72	0.5	620.25	0.0	Dry	0.0	615.05	14	11.9%
October-09	1.0	606.41	0.0	608.72	0.5	621.25	0.0	Dry	0.0	614.55	18	8.8%
November-09	1.0	606.61	0.0	608.7	0.5	621.85	0.0	Trace	0.0	614.95	18	8.8%
December-09	0.8	607.11	0.0	610.52	0.5	622.25	0.0	Dry	0.0	614.85	14	9.8%
January-10	1.8	602.91	0.0	598.92	1.0	617.65	0.0	Trace	0.0	612.35	11	27.1%
February-10	1.5	603.71	0.0	600.02	0.9	618.35	0.0	Dry	0.0	613.95	16	15.8%
March-10	1.2	605.71	0.0	606.52	1.0	619.55	0.0	Trace	0.0	614.95	18	12.6%
April-10	1.0	606.41	0.0	605.52	1.0	619.85	0.0	Dry	0.0	614.45	18	11.7%
May-10	0.7	605.51	0.0	604.52	1.1	619.65	0.0	Dry	0.0	614.05	12	15.3%
June-10	0.8	606.41	0.0	603.72	1.1	620.25	0.0	Dry	0.0	614.95	8	24.1%
July-10	0.5	606.71	0.0	604.52	1.0	620.35	0.0	Dry	0.0	614.75	8	19.7%
August-10	0.5	606.71	0.0	605.02	1.0	620.46	0.0	Dry	0.0	614.52	14	11.3%
September-10	-	603.24	-	596.97	-	600.92	0.0	Dry	-	613.45	10	--
October-10	-	-	-	-	-	-	-	-	-	-	16	--
November-10	-	-	-	-	-	-	-	-	-	-	16	--
December-10	-	603.16	-	597.22	-	601.23	-	Dry	-	616.43	8	--
January-11	-	-	-	-	-	-	-	-	-	-	12	--
February-11	-	-	-	-	-	-	-	-	-	-	21	--
March-11	8.2	600.5	0.0	604.0	4.0	619.3	0.0	606.8	0.0	600.3	12	106.9%
April-11	8.0	600.6	0.0	604.5	5.0	619.8	0.0	607.2	0.0	600.6	16	85.5%
May-11	10.0	603.1	0.0	606.6	6.0	620.8	0.0	608.0	0.0	601.1	78	21.6%
June-11	1.0	603.5	0.0	606.1	0.5	620.5	0.0	607.5	0.0	600.7	11	14.3%
July-11	1.0	602.7	0.0	605.8	0.5	620.3	0.0	607.0	0.0	600.4	18	8.8%
August-11	1.2	603.5	0.0	607.4	0.6	620.3	0.0	607.2	0.0	604.2	25	7.6%
September-11	1.0	603.5	0.0	598.8	0.5	600.0	0.0	606.0[(1)]	0.0	611.9	12	13.1%
October-11	1.0	603.0	0.0	598.6	0.5	599.5	0.0	606.0[(1)]	0.0	611.9	20	7.9%
November-11	1.2	605.0	0.0	603.4	>0.5	603.1	0.0	606.0[(1)]	0.0	614.9	24	--
December-11	1.2	605.4	0.0	606.4	>0.5	607.3	0.0	606.0[(1)]	0.0	615.0	13	--

TABLE 5.1

SUMMARY OF SOURCE CONTROL WELL PUMPING 2009 - PRESENT
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Month	*SC-2*		*SC-3*		*SC-4*		*SC-5*		*SC-6*		*Total Volume Pumped (gallons)*	*Estimated NAPL Percentage*
	NAPL Thickness (feet)	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*		
January-12	1.3	605.7	0.0	606.6	0.7	609.1	0.0	606.0[(1)]	0.0	617.0	21	10.0%
February-12	1.3	605.4	0.0	605.7	0.7	608.5	0.0	606.0[(1)]	0.0	616.1	52	4.0%
March-12	1.6	601.4	0.0	604.6	0.8	606.3	0.0	606.0[(1)]	0.0	613.8	41	6.2%
April-12	1.6	601.8	0.0	605.5	0.8	607.2	0.0	606.0[(1)]	0.0	614.2	46	5.5%
May-12	1.7	601.6	0.0	605.9	0.8	606.8	0.0	606.0[(1)]	0.0	613.8	34	7.7%
June-12	1.6	601.4	0.0	605.8	0.8	606.6	0.0	606.0[(1)]	0.0	613.5	34	7.5%
July-12	1.3	601.3	0.0	605.8	0.7	606.8	0.0	606.0[(1)]	0.0	613.3	16	13.1%
August-12	>1.3	601.0	0.0	605.8	0.8	606.5	0.0	606.0 [(1)]	Trace	613.2	16	--
September-12	>1.3	600.8	0.0	605.8	0.8	607.2	0.0	606.0 [(1)]	Trace	613.8	19	--
October-12	1.7	601.0	0.0	604.4	1.0	613.1	0.7	607.82	0.0	614.0	28	12.7%
November-12	1.7	601.0	0.0	604.1	1.2	612.9	0.8	608.02	0.0	614.1	15	25.9%
December-12	1.5	601.9	0.0	605.0	1.0	613.4	0.9	607.92	0.0	614.2	17	21.1%
January-13	1.0	602.2	0.0	606.1	0.8	613.7	0.9	608.85	0.0	615.1	52	5.6%
February-13	1.0	603.2	0.0	606.3	1.0	613.9	0.8	609.06	0.0	615.2	39	7.6%
March-13	1.7	603.2	0.0	606.1	1.2	612.9	1.1	607.85	0.0	614.8	22	18.7%
April-13	1.7	604.6	0.0	606.4	1.2	612.1	1.0	606.97	0.0	614.1	57	7.1%
May-13	2.1	605.6	0.0	608.5	1.0	613.1	1.0	606.93	0.0	614.2	15	28.6%
June-13	2.7	606.5	0.0	608.8	0.8	615.1	1.2	607.13	0.0	614.9	77	6.4%
July-13	2.5	606.0	0.0	608.4	0.8	613.1	1.3	607.17	0.0	615.1	0	--
August-13	2.3	605.4	0.0	607.3	1.0	612.0	1.3	607.06	0.0	613.9	20 [(2)]	--
September-13	2.2	598.6	0.0	606.4	1.0	611.9	1.3	607.12	0.0	612.8	20 [(2)]	--
October-13	2.2	598.6	0.0	606.4	1.5	603.9	1.3	607.08	0.0	612.1	8	65.7%
November-13	2.3	598.6	0.0	606.3	1.3	603.5	1.2	607.65	0.0	611.2	6	81.9%
December-13	1.7	601.4	0.0	608.3	1.5	605.2	1.5	607.56	0.0	612.1	0	--
January-14	1.7	602.6	0.0	608.2	1.5	604.7	1.3	607.4	0.0	612.2	24	19.7%
February-14	1.2	602.6	0.0	608.2	1.0	605.1	1.0	607.6	0.0	612.1	0	--
March-14	1.5	602.4	0.0	608.3	1.2	605.2	1.0	609.5	0.0	611.6	63	6.1%
April-14	1.6	602.5	0.0	608.1	1.0	604.7	1.0	607.5	0.0	612.0	36	10.5%
May-14	1.0	602.4	0.0	608.0	0.8	604.6	0.7	607.2	0.0	612.0	29	9.1%
June-14	1.3	601.4	0.0	607.8	1.0	604.4	1.0	607.1	0.0	611.3	49	7.2%

TABLE 5.1

SUMMARY OF SOURCE CONTROL WELL PUMPING 2009 - PRESENT
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Month	*SC-2*		*SC-3*		*SC-4*		*SC-5*		*SC-6*		*Total Volume Pumped (gallons)*	*Estimated NAPL Percentage*
	NAPL Thickness (feet)	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*	*NAPL Thickness (feet)*	*Water Level Elevation (ft. AMSL)*		
July-14	1.0	601.4	0.0	610.0	0.8	606.5	1.0	607.1	0.0	611.3	32	9.3%
August-14	0.8	601.0	0.0	609.7	1.0	606.5	0.8	609.1	1.3	611.2	0	--
September-14	0.8	602.6	0.0	608.2	1.0	605.1	0.8	607.6	1.2	612.1	0	--
October-14	1.0	602.4	0.0	608.1	1.0	605.2	1.0	607.4	1.0	611.9	10	42.1%
November-14	1.0	603.4	0.0	610.4	1.0	605.4	1.0	607.4	2.0	610.9	12	43.8%
December-14	1.6	602.6	0.0	610.1	1.0	605.4	1.0	607.2	2.0	612.9	10	58.7%

Notes:

ft. AMSL Feet Above Mean Sea Level
NAPL Non-Aqueous Phase Liquid
- Not measured due to miscommunication between Site operator and field technicians
-- Percentage cannot be calculated due to lack of measurement or pumping
(1) Well obstructed during water level reading
(2) Estimated volume due to totalizer problems

TABLE 5.2

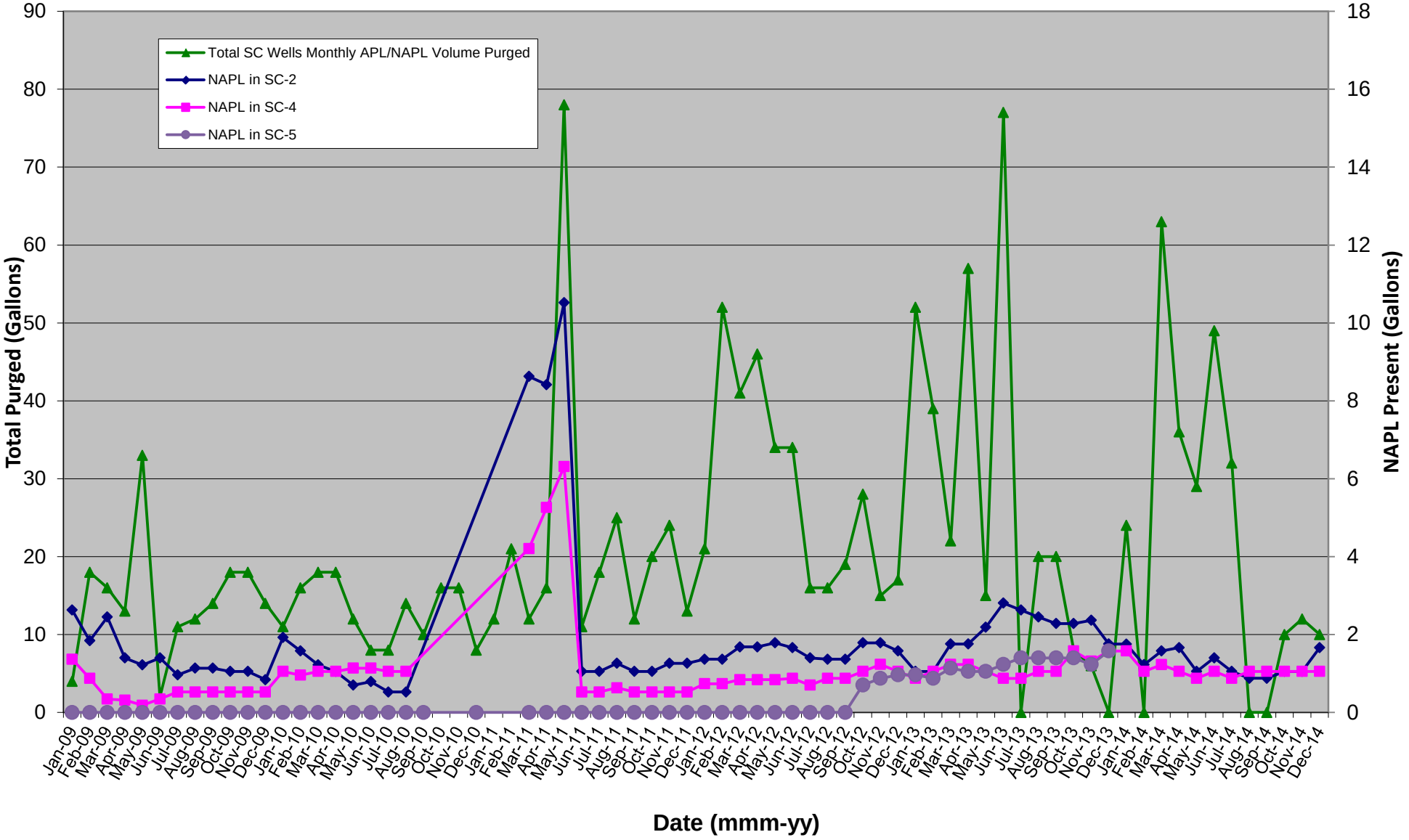
ANALYTICAL RESULTS SUMMARY
ANNUAL BEDROCK OPEN CATCH BASIN
OCTOBER 2014
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

	Sample Location:	***BR-OpenCatchBasin***
	Sample ID:	***HPOPENCB-1014***
	Sample Date:	***10/23/2014***
Parameters	***Units***	
Organic Acids		
2-Chlorobenzoic acid	µg/L	30 U
3-Chlorobenzoic acid	µg/L	30 U
4-Chlorobenzoic acid	µg/L	300 U
Benzoic acid	µg/L	100 U
Chlorendic acid	µg/L	250 U

Notes:

U Not present at or above the associated value

Chart 5.1
Total SC Wells APL/NAPL Purged, NAPL Presence in SC-2, -4, and -5



Appendix A

Institutional and Engineering Controls Certification Form

New York State Department of Environmental Conservation
Division of Environmental Remediation, 11th Floor
625 Broadway, Albany, New York 12233
Phone: (518) 402-9553 **Fax:** (518) 402-9577
Website: www.dec.ny.gov

Joe Martens
Commissioner

1/23/2015

Joseph Branch
Project Manager
OCC/Glenn Springs Holdings, Inc.
7601 Old Channel Trail
P.O. Box 146
Montague, MI 49437

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Hooker-Hyde Park Landfill
Site No.: 932021
Site Address: 4825 Hyde Park Boulevard
Niagara Falls, NY 14305

Dear Joseph Branch:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **April 30, 2015**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, are to be submitted in electronic format to the Department of Environmental Conservation. The Department will not approve the PRR unless all documents and data generated in support of that report have been submitted in accordance with the electronic submissions protocol. In addition, the certification forms are required to be submitted in both paper and electronic formats.

Information on the format of the data submissions can be found at:
http://www.dec.ny.gov/regulations/2586.html

The signed certification forms should be sent to Brian Sadowski, Project Manager, at the following address:

New York State Department of Environmental Conservation
270 Michigan Ave
Buffalo, NY 14203-2915

Phone number: 716-851-7220. E-mail: brian.sadowski@dec.ny.gov

The contact information above is also provided so that you may notify the project manager about upcoming inspections, or for any other questions or concerns that may arise in regard to the site.

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures
Brian Sadowski, Project Manager
Greg Sutton, Hazardous Waste Remediation Engineer, Region 9
Jane Polovich, Conestoga Rovers and Associates

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7**):**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **932021**

Site Name Hooker-Hyde Park Landfill

Site Address: 4825 Hyde Park Boulevard Zip Code: 14305
City/Town: ~~Niagara Falls~~ Town of Niagara
County: Niagara
Site Acreage: ~~23.0~~ 22.8

Reporting Period: January 01, 2014 to December 31, 2014

	YES	NO
1. Is the information above correct?	☐	☑
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☑
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☑
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☑

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Closed Landfill	☑	☐
7. Are all ICs/ECs in place and functioning as designed?	☑	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

SITE NO. 932021 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
130.11-1-3	Occidental Chemical Corporation	Ground Water Use Restriction Landuse Restriction Monitoring Plan O&M Plan Surface Water Use Restriction

Same as parcel with SBL number 130.11-1-4

130.11-1-4.1	Occidental Chemical Corporation	Ground Water Use Restriction Landuse Restriction Building Use Restriction Surface Water Use Restriction Monitoring Plan O&M Plan

Occidental, the United States and State of New York:

Stipulation and Judgement Approving Settlement Agreement; January 19, 1981
Stipulation on Requisite Remedial Technology; November 1, 1985
Enforcement Decision Document for Requisite Remedial Technology; November 11, 1985
Declaration of Restrictive Covenants and Environmental Easement; August 11, 2010

Legacy Restriction: "3. Restrictions on Use: The following restrictions apply to the use of the Property, run with the land, and are binding on the Grantor: the Property shall not be used in any manner that would interfere with or adversely affect the implementation, integrity, or effectiveness of the Response Action performed at the Site, including, but not limited to, a) the extraction of on-site groundwater, b) any digging, excavation, extraction of materials, construction, or other activity outside the requirements of the Response Action that would disturb the cap placed upon the Landfill at the Site, or c) other activity that would disturb or interfere with any portion of the Response Action for the Site enumerated in the RRT Stipulation."

Box 4

Description of Engineering Controls

Parcel	Engineering Control
130.11-1-3	Point-of-Entry Water Treatment Groundwater Treatment System Groundwater Containment Fencing/Access Control

Liquid waste treatment facility that handles aqueous phase leachate (APL) and non-aqueous phase leachate (NAPL) generated from the landfill and offsite sources.

130.11-1-4.1	Groundwater Treatment System Cover System Groundwater Containment Leachate Collection Fencing/Access Control

The below engineering controls are from the Declaration of Restrictive Covenants and Environmental Easement; August 11, 2010 and other documentation that are the most applicable to the parcel and community wide remediation.

Parcel	Engineering Control
Landfill cap. Landfill cap source control wells. Landfill perimeter capping. Collection and containment of aqueous phase liquids (APL) and non-aqueous phase liquids (NAPL) in the overburden. Collection and containment of APL and NAPL in the bedrock. Industrial protection program by sealing of sumps and manholes. Bloody run excavation with new culvert installation, cleaned of existing and/or slip lined. Niagara Gorge face soil and visibly contaminated rock excavated and disposed in the landfill. Niagara Gorge face seeps remediation by APL plume pumping wells through groundwater flow zones.	

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

RGA 04/27/15

a) the Periodic Review report and all attachments were ~~prepared under the direction of, and~~ reviewed by, the party making the certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☑	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☑	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 932021

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Joseph Branch (print name) at 7601 Old Channel Trail, Montague, MI 49437 (print business address),

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4/28/15
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Robert G. Adams (print name) at CRA Infrastructure & Engineering, 285 Delaware Avenue, Buffalo, NY 14202 (print business address),

am certifying as a Professional Engineer for the Remedial Party (Owner or Remedial Party)

Robert G. Adams
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

04/27/15
Date

#064918 NY

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated the ability of each component of the remedy subject to O&M requirements to perform as

designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals
   1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
   2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

Appendix B

Revised FP-05a: Vapor Sampling - Community Monitoring Wells

FP-05a: Vapor Sampling - Community Monitoring Wells

Equipment Needs

Personal Protective Equipment, Organic Vapor Analyzer (OVA), Tubing, Site map.

Pre-Field Activities

1. Install vapor monitoring caps (figure attached) on all Community monitoring wells at least 1 month before vapor sampling. Only the overburden wells need these caps.
2. Connect 5 feet of clean sample tubing to the OVA.
3. Calibrate the OVA according to the manufacture's recommendations, with sample tubing connected.

Sample Collection Procedure (at each well)

- Locate proper well and open flush-mount access. DO NOT REMOVE VAPOR SAMPLING CAP UNTIL AN OVA READING HAS BEEN COLLECTED.
- Start the OVA pump. Before connecting sample tubing to the cap, collect and record an ambient OVA reading.
- Record OVA readings at 1-minute intervals for 10 minutes on the attached field form.
- Remove OVA.
- Remove Vapor Sampling Cap.
- Close and lock the well.

Follow-up Procedure

- Review completed field form.
- If vapor monitoring results are more than 50 parts per billion above background, field staff will notify project manager immediately.
- Follow-up actions may be implemented to verify the measurements. These actions may include checking the OVA if it is suspected that water or debris may have entered the unit which could provide erroneous readings, recalibration of the OVA, and/or re-measurement with the recalibrated OVA or replacement OVA.
- If the vapor monitoring results are more than 50 parts per billion above background and determined to be valid, a groundwater sample will be collected from the monitoring well where the measurement was obtained within 2 weeks. The groundwater sample will be collected using field procedure FP-04b.

Notes:
The vapor sampling protocol is defined to collect vapor near the end of the sample tubing. The purge time for sampling must be long enough to evacuate one tubing volume, but not long enough to draw vapors from outside of the well. The Community Monitoring Wells are 12-inch diameter wells. A sampling pump operating at 400 cc/minute will evacuate a 1-foot column of

air from a 12-inch diameter pipe in about 55 minutes. Pumping 400 cc/min will evacuate a 10-foot length of a 0.25-inch ID tubing (5 feet in the well and 5 feet to the OVA) in approximately 15 seconds. The sampling schedule, 1-minute intervals for 10 minutes, with the intake 5 feet below the top of the well casing, will ensure that the connecting tubing has been purged for the first sample at 1 minute and that no atmospheric air will be drawn into the OVA.

Pipe/Tube ID (inches)	***Volume (cc/foot)***
0.25	10
0.5	39
1	154
2	618
4	22,481
6	5,560
12	22,240

COMMUNITY MONITORING WELL SOIL VAPOR MONITORING
COMMUNITY MONITORING PROGRAM
HYDE PARK LANDFILL SITE
TOWN OF NIAGARA, NEW YORK

Field Team: _____ **Date:** _____

Wind Speed & Direction: _____ **Temperature:** _____

Instructions:

- Using an organic vapor analyzer capable of detecting 10 parts per billion by volume (ppbv) or lower, collect a stabilized background reading, followed by readings from the monitoring point at 1-minute intervals for 10 minutes.

- If any of the stabilized readings exceed 50 ppbv, notify the project manager immediately so follow-up actions can be initiated.

- Submit this form directly to the project staff within 2 days of the event.

Well ID	*Time Intervals*	*Sampling Time (hhmm)*	*VOC Readings (ppbv)*	*Well ID*	*Time Intervals*	*Sampling Time (hhmm)*	*VOC Readings (ppbv)*
SVP-1	Background			**SVP-2**	Background		
	At 1 minute				At 1 minute		
	At 2 minutes				At 2 minutes		
	At 3 minutes				At 3 minutes		
	At 4 minutes				At 4 minutes		
	At 5 minutes				At 5 minutes		
	At 6 minutes				At 6 minutes		
	At 7 minutes				At 7 minutes		
	At 8 minutes				At 8 minutes		
	At 9 minutes				At 9 minutes		
	At 10 minutes				At 10 minutes		

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Well ID	*Time Intervals*	*Sampling Time (hhmm)*	*VOC Readings (ppbv)*	*Well ID*	*Time Intervals*	*Sampling Time (hhmm)*	*VOC Readings (ppbv)*
SVP-3	Background			**SVP-4**	Background		
	At 1 minute				At 1 minute		
	At 2 minutes				At 2 minutes		
	At 3 minutes				At 3 minutes		
	At 4 minutes				At 4 minutes		
	At 5 minutes				At 5 minutes		
	At 6 minutes				At 6 minutes		
	At 7 minutes				At 7 minutes		
	At 8 minutes				At 8 minutes		
	At 9 minutes				At 9 minutes		
	At 10 minutes				At 10 minutes		
CMW-7OB	Background			**CMW-8OB**	Background		
	At 1 minute				At 1 minute		
	At 2 minutes				At 2 minutes		
	At 3 minutes				At 3 minutes		
	At 4 minutes				At 4 minutes		
	At 5 minutes				At 5 minutes		
	At 6 minutes				At 6 minutes		
	At 7 minutes				At 7 minutes		
	At 8 minutes				At 8 minutes		
	At 9 minutes				At 9 minutes		
	At 10 minutes				At 10 minutes		