



2023 Annual Periodic Review Report

Hyde Park Landfill
Niagara Falls, New York
NYSDEC Site No. 932021

Glenn Springs Holdings, Inc.

30 April 2024

→ The Power of Commitment

Executive Summary

The following report describes the Operation, Maintenance, and Monitoring (OM&M) activities for 2023 at the Hyde Park Landfill Site (Site) located at 4825 Hyde Park Boulevard, Niagara Falls, Town of Niagara, Niagara County, New York. The Site is approximately 30 acres in size and is comprised of two parcels owned by Occidental Chemical Corporation (OCC) and one parcel owned by National Grid (formerly Niagara Mohawk Power Corporation). These parcels contain the landfill (28.1 acres) and the treatment system and associated buildings (1.9 acres). OCC owns another 30 parcels that are located to the west and north of the Site that encompass a total area of approximately 29 acres. These parcels were purchased to act as a buffer to the Site or to facilitate remediation. Management of the Site is performed on behalf of OCC by Glenn Springs Holdings, Inc. (GSH), an affiliate of OCC. Since October 1, 2008, GHD, formerly Conestoga-Rovers & Associates (CRA), has performed OM&M and reporting activities for the Site under contract to and direct management of GSH.

During 2023, the remedial system components at the Site performed as designed. The Source Control (SC), Overburden RRT, and Bedrock RRT Systems removed 27.1 million gallons of groundwater from the Site and surrounding formations. The RRT systems continued to provide containment, 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 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. The community continues to be protected by the Site remedial systems. In 2023, 74,710 pounds of NAPL were shipped off-Site for disposal.

The 2023 data indicate that there has been no significant change in chemical and hydrogeological conditions at the Site.

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1. Introduction

The following Periodic Review Report (PRR) describes the Operation, Maintenance, and Monitoring (OM&M) activities for 2023 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. Since October 1, 2008, GHD, formerly Conestoga-Rovers & Associates (CRA), has performed OM&M and reporting activities for the Site under contract to and direct management of GSH.

1.1 Site Location

The Site is located 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, the 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 Drive Star Properties LLC (formerly owned by Armand Cerrone, Inc.) to the east. The Site is located approximately 2,000 feet east of the Niagara River Gorge (Gorge).

The Site is approximately 30 acres in size and is comprised of two parcels owned by OCC and one parcel owned by National Grid (formerly Niagara Mohawk Power Corporation). These parcels contain the landfill (28.1 acres) and the treatment system and associated buildings (1.9 acres). OCC owns another 30 parcels that are located to the west and north of the Site that encompass a total area of approximately 29 acres. These parcels were purchased to act as a buffer to the Site or to facilitate remediation.

1.2 Site History

The Site is a closed disposal facility where Hooker Chemical placed liquid, sludge, and solid production waste 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 portion of the Site owned by OCC 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 Comprehensive Environmental Response, Compensation, and Liability Act (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 and subsequent NYSDEC-approved changes in monitoring requirements is provided in Table 1.1. Action levels specified in the PMP are shown in the applicable analytical data tables.

The *Draft Revised Performance Monitoring Plan* (GHD, October 22, 2021) remains under review at NYSDEC.

1.4 Remedial Components and Monitoring

Site remedial components consist of the following:

- Source Control (SC) System, shown on Figure 1.2
 - Six SC wells installed within the landfill; only five are currently active
- Overburden RRT System, shown on Figure 1.3
 - Existing barrier collection system (EBCS) surrounding the original landfill
 - Overburden barrier collection system (OBCS) outside and to the north, west, and south of the original landfill
- Bedrock RRT System, shown on Figure 1.4
 - NAPL containment system (16 purge wells)
 - Aqueous Phase Liquids (APL) plume containment system (two purge wells)

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.

Based on the configuration of the treatment system, it is not possible to determine the quantity of NAPL collected by the individual EBCS and OBCS systems. A discussion of NAPL quantity collected by the SC system is presented in Section 5.1.1. In 2023, 74,710 pounds of NAPL were shipped off-Site for disposal.

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

- Overburden Monitoring Program (OMP), locations shown on Figure 1.5
- Bedrock Monitoring Program (BMP), locations shown on Figure 1.6
- Community Monitoring Program (CMP), locations shown on Figure 1.7

2. 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, and surface water, and require the implementation of both a Monitoring Plan and an Operation and Maintenance (O&M) Plan. The most recent versions of these documents are the NYSDEC and USEPA approved 2006 PMP and the 2019 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.

3. Site Monitoring Programs and Results

3.1 Overburden Monitoring Program

The OMP 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 two collection systems designed to control the lateral migration of APL and NAPL in the overburden.

The 2023 performance monitoring data for the overburden systems are presented as follows:

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|---|------------|
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3.2 Bedrock Monitoring Program

The BMP 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 18 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. 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 fourth quarter of 2023. The Group B Bedrock Piezometers are sampled on a quarterly basis. The Bloody Run monitoring wells are sampled every 5 years, which occurred in October 2021, with the next event planned for 2026.

The 2023 performance monitoring data for the bedrock systems are presented as follows:

| | |
|--|---------------|
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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 (if any) are discussed in this PRR, while the day-to-day maintenance of these setpoints was previously presented in the 2023 Quarterly Operations Reports. As indicated in the 2023 Quarterly Operations Reports, the water levels in several purge wells were out of setpoint range for periods of time awaiting replacement of pumps, motors, and variable frequency drives (VFDs). Delivery lead times for equipment (such as pumps, motors, drives, etc.) have been variable. Although some spares have always been kept on hand, replacement of the spares sometimes took longer i than anticipated, which affected repair of the purge wells. Additional spares have been and will continue to be ordered to the extent practicable.

In addition to maintaining water levels within target setpoint ranges in the purge wells, the groundwater elevation 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 elevation ensures that the FZ-09 outcrop along

the NYPA access road remains unsaturated. Piezometer PMW-1M-09 is used to monitor the FZ-09 groundwater elevation in this area. A pressure transducer installed in PMW-1M-09 has been programmed to collect groundwater elevation data at 1-hour intervals. These continuous groundwater elevation data were reported in the 2023 Quarterly Operation Reports.

3.3 Community Monitoring Program

The CMP was developed to ensure that the public is not being adversely exposed to Site-related parameters. The CMP includes the Gorge Face Seep Program, the APL Flux Monitoring Program, and the Residential CMP. The Gorge Face Seep Program involves inspections of the Gorge every five years (refer to Section 5.3.4) to ensure that Site-specific parameters are not discharging to a publicly accessible area. The APL Flux Monitoring Program involves annual sampling and ensures that the mass loading via groundwater discharged to the Gorge is less than the defined Flux Action Level. The Residential CMP involves annual vapor monitoring and 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 2023 performance monitoring data for the community monitoring are presented as follows:

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|---|------------|
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The 2023 annual AFW composite sample was collected on November 28 and 29, 2023.

4. Site Operation and Maintenance

Maintaining the Site remedial elements is critical to the Site's remedial performance. Therefore, inspections of hydraulic and chemical monitoring points, the landfill cap, and the security fence surrounding the landfill have been included in the PMP and O&M Manual. 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 O&M activities are presented in the 2019 O&M Manual.

Analytical results from the treatment system monitoring program have been presented previously in the 2023 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 2023:

| | |
|---|-----------|
| 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 2023. 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.

5. Evaluation and Conclusions

5.1 Overburden Monitoring Program

There were no deviations from the OMP in 2023, 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 SC wells (SC-2 to SC-6) were historically operated on a monthly basis to pump down the APL/NAPL level to approximately the top of the pump in each well. The 2014 Annual Periodic Review Report recommended that monthly purging of the SC wells and subsequent water level and NAPL thickness measurements be discontinued; however, in order to provide additional data to support discontinuation, it also recommended that the frequency be changed to quarterly for 1 year. After 1 year, the original recommendation to discontinue would be reevaluated. NYSDEC approved the quarterly frequency of SC water level and NAPL thickness measurements in a letter dated May 5, 2015; however, GSH maintained monthly water level and NAPL thickness measurements throughout 2015. Starting in 2016, the SC water levels and NAPL thickness were measured quarterly.

In an effort to further demonstrate that the SC wells do not produce significant amounts of NAPL, monthly manual NAPL removal from SC-6 was implemented in April 2015. The NAPL thickness in SC-6 prior to removal in April 2015 was approximately 10 feet. Approximately 18 gallons of NAPL were removed. In subsequent months, the volume of NAPL removed decreased from 8 gallons in May to 3 gallons in October 2015 when manual removal of NAPL ceased due to cold temperatures. Based on the declining amount of NAPL removed, the frequency was revised to quarterly.

Based on the results of manual NAPL removal from SC-6, quarterly manual NAPL removal was implemented at SC-2, SC-3, SC-4, and SC-5 in October 2016. The volume of NAPL recovered from these wells was 5.5 gallons, 33.25 gallons, 15.25 gallons, and 1.5 gallons, respectively. Based on the volumes of NAPL recovered, it was recommended in the 2016 PRR that quarterly manual NAPL removal from the SC wells continue in 2017 except at SC-3 where removal would be performed on an approximate monthly basis. This change was implemented in 2017.

Based on the low volumes of NAPL recovered each year from SC-5 and SC-6 since 2016, the 2019 PPR recommended that the frequency of manual NAPL recovery at these two wells be changed to semiannual. This recommendation was approved by the NYSDEC in its 2019 PRR acceptance letter dated July 29, 2020. The first semiannual manual NAPL removal event at SC-5 and SC-6 was completed in October 2020. Manual NAPL removal and NAPL thickness measurements have continued on a monthly basis at SC-3, on a quarterly basis at SC-2 and SC-4, and on a semiannual basis at SC-5 and SC-6.

The 2023 SC well NAPL thickness and recovery data are summarized in Table 3.1. No NAPL was recovered in 2023 from SC-5 or SC-6. The volumes of NAPL recovered in 2023 from SC-2, SC-3, and SC-4 were 1.8 gallons, 117.3 gallons, and 24.5 gallons, respectively.

The total amount of NAPL recovered in 2023 was 143.5gallons. The NAPL volumes removed from the SC wells from 2016 through 2023 are as follows:

| Year | Gallons Purged from SC-2 | Gallons Purged from SC-3 | Gallons Purged from SC-4 | Gallons Purged from SC-5 | Gallons Purged from SC-6 | Total Gallons Purged from SC Wells |
|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------------|
| 2016 | 5.5 | 33.25 | 15.25 | 1.5 | 10 | 65.5 |
| 2017 | 2.75 | 476.5 | 46.75 | 0 | 5.1 | 531.1 |
| 2018 | 0 | 390.3 | 31.0 | 0 | 9.0 | 430.3 |
| 2019 | 6.5 | 178.3 | 23.8 | 0 | 0 | 208.6 |
| 2020 | 3.3 | 165.5 | 26.0 | 0 | 0 | 194.8 |

| Year | Gallons Purged from SC-2 | Gallons Purged from SC-3 | Gallons Purged from SC-4 | Gallons Purged from SC-5 | Gallons Purged from SC-6 | Total Gallons Purged from SC Wells |
|------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|------------------------------------|
| 2021 | 0 | 110.3 | 31.0 | 0 | 0 | 141.3 |
| 2022 | 0 | 112.8 | 31.5 | 0 | 0 | 144.3 |
| 2023 | 1.8 | 117.3 | 24.5 | 0 | 0 | 143.5 |

Approximately ten gallons or less of NAPL have been recovered from each of wells SC-2, SC-5, and SC-6 annually since at least 2016. No NAPL has been recovered from SC-5 or SC-6 since 2018. Based on the low volumes of NAPL recovered from these three wells, the 2022 PRR recommended that the frequency of manual NAPL recovery and associated NAPL thickness measurements at these three wells be reduced to annually. It was also recommended that the frequency of manual NAPL recovery and associated NAPL thickness measurements at wells SC-3 and SC-4 be continued on a monthly and quarterly basis, respectively. In its 2022 PRR acceptance letter dated July 19, 2023, the NYSDEC indicated that it would evaluate recommendations for modifications to the operation, maintenance, and monitoring programs during its review of the *Draft Revised Performance Monitoring Plan*. The *Draft Revised Performance Monitoring Plan* (GHD, October 22, 2021) remains under review at NYSDEC.

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 2023 Quarterly Operations Reports. These potentiometric surface maps indicated hydraulic containment for each quarter of 2023. Measured water levels are recorded electronically and uploaded into a database from the field. As such, gauging logs are not available.

5.1.3 Overburden NAPL Presence Monitoring

NAPL presence checks are to be completed annually in the 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) and in 1 of the 2 wet wells (Wet Well D). These four manholes are located at the southwest corner of the landfill and all flow to Wet Well D. The data also indicate that NAPL is not present in any of the OMWs. These wells are located outside of the OBCS to the south, west, and northwest of the four manholes and one wet well where NAPL was present (see Figure 1.3). The lack of NAPL presence in these OMWs indicates that overburden NAPL is contained within the boundaries of the OBCS and is not bypassing the OBCS. The monitoring well NAPL gauging log (well inspection log) is included in Appendix C.

5.1.4 Overburden RRT System Flow Rates

The OBCS and EBCS monthly average flow rates, presented in Table 3.4, indicate seasonal fluctuations in flow rates with the highest average flow rates generally occurring during the spring months of 2023.

5.1.5 Overburden Monitoring Conclusions

Based on the overburden data collected in 2023, as shown in Tables 3.1 through 3.4 and the potentiometric surface maps that were presented in the 2023 Quarterly Operations Reports, 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 BMP in 2023, and monitoring was conducted in accordance with the 2006 PMP. The results of the BMP in 2023 are discussed below and summarized in Tables 3.5 through 3.9.

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 2023 Quarterly Operations Reports. The potentiometric surface maps for each monitored flow zone during each quarter of 2023 indicated containment. Measured water levels are recorded electronically and uploaded directly into a database from the field. As such, gauging logs are not available.

5.2.2 Bedrock RRT System Flow Rates and Setpoints

The 2023 bedrock purge well monthly average flow rate data is presented in Table 3.6. As indicated in Section 3.2, flow rates were consistent with historical flow rates when purge wells were operational.

Maintenance of operating water level setpoints by each of the purge wells has been discussed in the 2023 Quarterly Operations Reports. As indicated in the 2023 Quarterly Operations Reports, water levels in several purge wells were out of setpoint range for periods of time awaiting replacement of pumps, motors, and VFDs. Delivery lead times for equipment (such as pumps, motors, drives, etc.) have been variable. With the exception of these periods and additional minor operational and setpoint issues which were investigated and resolved, the water levels were maintained within target setpoint ranges at the purge wells in 2023.

Based on the hourly data from the PMW-1M-09 pressure transducer, the groundwater elevation in this area of FZ-09 was maintained at an average elevation of 517.59 feet AMSL throughout 2023, with a maximum elevation observed of 524.22 feet AMSL on January 3, 2023. The average and maximum groundwater elevations recorded by the PMW-1M-09 pressure transducer were below the 526 feet AMSL elevation setpoint, which ensures that the FZ-09 outcrop along the NYPA access road remains unsaturated. The data were corroborated by the quarterly groundwater elevations for PMW-1M-09 presented in Table 3.5, based on hand water level measurements, and show an average groundwater elevation of less than 517.92 feet AMSL in 2023.

5.2.3 Bedrock Analytical Results

In accordance with the 2006 PMP, quarterly groundwater samples were collected from the Group B Bedrock piezometers in 2023. The quarterly groundwater sampling events were performed during March 2023, May/June 2023, August 2023, and November 2023. The fifth quarter Group A Bedrock piezometer sampling event, as defined in the PMP, was performed during November 2023. Groundwater sampling logs are included in Appendix C.

The 2023 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 (SLs) presented in the PMP have been included in these tables and exceedances of these values have been highlighted.

The fifth quarter sampling results for the Group A Bedrock piezometers are presented in Table 3.8. Analyses included volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), organic acids, and sulfate. The SLs presented in the PMP have been added to this table and exceedances of these values have been highlighted.

The 2023 data for the quarterly Group B Bedrock piezometer and the fifth quarter Group A Bedrock piezometer sampling events indicate that samples from a number of locations exhibited concentrations of Site Organic Indicators (SOIs) that exceeded the SLs, 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-04, D1U-05, D2M-09, D2U-05, F2U-02, F2U-04, G6-04, G6-05, G6-06, H2U-02, H5-09 |
| Trichloroethene (TCE) | G1U-01, G6-01, G6-02, G6-04, G6-05, G6-06, H2M-06 |
| Tetrachloroethene (PCE) | G6-01, G6-02, G6-04, G6-05 |
| Cis-1,2-Dichloroethene (cis-1,2-DCE) | G6-04, G6-05, G6-06 |
| 1,1,2,2-Tetrachloroethane (1,1,2,2-PCA) | G6-01, G6-02, G6-04, G6-05, G6-06, H2M-06 |
| Bis(2-Ethylhexyl)phthalate | E6-04 |
| Vinyl Chloride | G6-04, G6-05, G6-06, H2M-06 |
| Benzene | AGW-1M-09, B2L-11, D1L-11, E6-09, E6-11, F2L-11, F6-11, G1L-11, G6-04, G6-05, G6-06, G6-11, H2M-09, H5-09, J6-11 |

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

As described in the 2021 PRR, in 2019 and 2020, a statistical analysis was performed of concentrations of organic compounds detected in the Lockport Bedrock monitoring wells from 2006 through the second quarter of 2019. All of the organic compounds included in the Lockport Bedrock sampling program were included in the analysis, instead of only the nine SOIs. Based on the analysis performed, two organic compounds were detected in the monitoring wells that had been detected at concentrations above the SLs and had exhibited sustained increases in concentration, as follows:

- Benzene in wells D1L-11, E6-11, J6-11, and G6-04. Benzene in flow zone 11 is considered to be naturally occurring due to the presence of natural gas. Benzene concentrations in G6-04 appeared to be stabilizing based on the 2016 through 2019 data.
- Vinyl chloride in wells H2M-06 and G6-04. Concentrations of vinyl chloride appeared to be stabilizing in H2M-06 and had been relatively low in both H2M-06 and G6-04.

Based on the above, it was recommended that concentrations of benzene and vinyl chloride continue to be monitored as part of the current bedrock sampling program, with no modifications in the sampling or reporting requirements. It was also recommended that any continued increasing trends associated with the identified wells and compounds in the next statistical review of chemistry data for the Site be further evaluated at that time.

In 2022, a statistical evaluation of data collected from 2007 through 2021 was performed to supplement the statistical analysis performed in 2019 and 2020. In addition, as required by the PMP, a statistical evaluation of data collected from 2017 through 2021 was also performed. The results of these evaluations were presented in the *Five-Year Site Remedial Performance Report – 2017-2021* dated May 2, 2022. Based on the trends identified, it was recommended that VOCs continue to be sampled at wells H2M-06 and G6-04 every fifth quarter. Furthermore, based on the statistical analyses conducted, the following changes to the Site groundwater sampling programs were recommended:

- Modify the Quarterly Group B Bedrock sampling program to only include sampling of piezometers B2L-11 and D1U-05. The need for continued quarterly sampling of these piezometers will be evaluated in the annual PRRs.
- Modify the Fifth Quarter Group A Bedrock sampling program to consist of sampling for VOCs in all Group A Bedrock piezometers (which includes the Group B bedrock piezometers), but sample for organic acids only in the following four piezometers: G6-04, G6-05, H2M-06, and H2U-02. Discontinue collection of samples for analysis of SVOCs and sulfate.
- Create a new Five-Year Group A Bedrock sampling program which will consist of sampling for organic acids and SVOCs in all Group A Bedrock piezometers every five years, to be performed concurrently with the 5-Year Bloody Run and 5-Year APL/NAPL Purge Well sampling programs.

These recommendations differed slightly from the recommendations presented in the *Draft Revised Performance Monitoring Plan* dated October 22, 2021, based on the updated statistical evaluations. The 2023 quarterly Group B and fifth quarter Group A Bedrock sampling data support these recommendations; however, based on a review of the 2023 sampling data, the following additional modifications are proposed:

- Add piezometer AGW-1M-07 to the proposed list of piezometers sampled for organic acids during the Fifth Quarter Group A Bedrock sampling event. Concentrations of chlorendic acid have fluctuated since 2022 to recent maximums of 150 µg/L in September 2022 and 100 µg/L in November 2023. Although these concentrations were significantly below historical maximums, monitoring every fifth quarter is recommended to determine if these recent concentration increases are fluctuations in an otherwise stable trend.
- Add piezometer G6-06 to the proposed list of piezometers sampled for organic acids during the Fifth Quarter Group A Bedrock sampling event. Concentrations of benzoic acids have shown larger fluctuations since 2022 than previously observed. Although concentrations remain below the screening levels, monitoring every fifth quarter is recommended to determine if these recent concentration increases are fluctuations in an otherwise stable trend.

In a letter dated October 24, 2019, NYSDEC indicated that recent increases in concentrations of the SOIs 1,1,2,2-PCA, benzene, vinyl chloride, TCE, and cis-1,2-DCE, along with the non-SOI compounds chloroform, 1,1,2-trichloroethane (1,1,2-TCA), trans-1,2-DCE, and chlorobenzene had been noted for piezometer G6-05, suggesting that the groundwater plume had further migrated from the Site towards G6-05. Based on this, NYSDEC requested that a groundwater evaluation be completed in the area of G6-05. In response, GSH submitted a letter dated January 24, 2020 indicating that there was no evidence found to suggest that the groundwater plume would be expanding toward this well. The increasing concentrations were related to minor changes in groundwater flow patterns and the resulting redistribution of contaminant mass and were not considered evidence of an expanding plume. In addition, groundwater flow in the area of G6-05 had consistently been demonstrated to be towards the Site. GSH recommended continued monitoring and provision of updated graphs of the concentrations of these nine organic compounds detected in G6-05 on an annual basis as an appendix in the PRR. The NYSDEC approved this recommendation in its 2019 PRR acceptance letter dated July 29, 2020. G6-05 is sampled every fifth quarter as part of the Group A Bedrock piezometer sampling event. Figures B.1 and B.2 in Appendix B provide concentrations of these nine organic compounds detected in G6-05 through the fourth quarter of 2023. As indicated above, it is recommended that G6-05 continue to be sampled every fifth quarter for VOCs and organic acids to evaluate concentration trends in this piezometer over a longer time period. Groundwater flow has remained consistently northerly to westerly in the area of the G6 cluster, thus, there is no mechanism for the contaminants at the Site to be migrating southerly towards the G6 well cluster.

The next statistical evaluation of chemistry data generated from the bedrock groundwater quality monitoring programs at the Site will be conducted in 2027 for monitoring results obtained through 2026.

The catch basin on the north side of the Greif Brothers' warehouse is sampled annually for NAPL organic acids. The analytical results for 2023 are presented in Table 3.9.

The bedrock groundwater data collected in 2023 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 2023 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

5.3.1 APL Flux Monitoring Program

The APL plume flux composite sampling results are presented in Table 3.10. 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. Groundwater sampling logs are included in Appendix C.

5.3.2 Quarterly Hydraulic Gradient Summary

Table 3.11 presents a summary of groundwater elevations and vertical hydraulic gradients at the paired community monitoring wells for each quarter of 2023. Downward vertical hydraulic gradients, as demonstrated by a higher groundwater elevation in the overburden monitoring well than in the corresponding bedrock groundwater monitoring well, were maintained at each of the well pairs throughout the year.

5.3.3 Soil Vapor Monitoring

Results of community monitoring well soil vapor monitoring are presented in Table 3.12. None of the six locations monitored exhibited any recordable concentrations of VOCs during the September 2023 monitoring event. Therefore, in accordance with the field procedure for community well vapor monitoring presented in Appendix B of the 2014 Annual Periodic Review Report, groundwater sampling was not required.

5.3.4 Gorge Face Seep Survey

The Gorge Face Seep Survey was last conducted on November 10, 2021. In over 25 years of performing the Seep Survey (annually then biennially), no issues have been identified that required further action. In the 2019 PRR for the Site, it was recommended to change the frequency of the Gorge Face Seep Survey to every five years to coincide with the USEPA Five-Year review of the Site. In its 2019 PRR approval letter, NYSDEC indicated that this change was acceptable pending approval from the USEPA.

In a letter dated June 30, 2021, the USEPA requested that in order to confirm that Site conditions had not changed since the last sampling of the Gorge Face Seeps in 2001, Seeps 2, 7d, and 12 be sampled for the APL Plume Definition Parameters set forth in the 2001 PRR. The letter indicated that upon receipt and review of the sampling results, the USEPA would make a determination regarding the proposed reduction in frequency of the Seep Survey. The requested seep sampling was conducted during the November 10, 2021 biennial Gorge Face Seep Survey and the results presented in the 2021 PRR. In a letter dated August 18, 2022, the USEPA approved the request to reduce the Gorge Face Seep Survey to once every five years. The next Seep Survey will be conducted in the fall of 2025 for inclusion in the Seventh Five-Year Review Report due in 2026.

5.3.5 Community Monitoring Conclusions

The community monitoring data collected in 2023 demonstrate that the community is being properly protected by Site remedial systems.

5.4 Site Operations and Maintenance

There were no deviations in 2023 from the treatment system monitoring specified in the 2006 PMP. Ongoing O&M issues are discussed in the 2023 Quarterly Operations Reports.

6. Recommendations

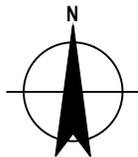
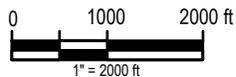
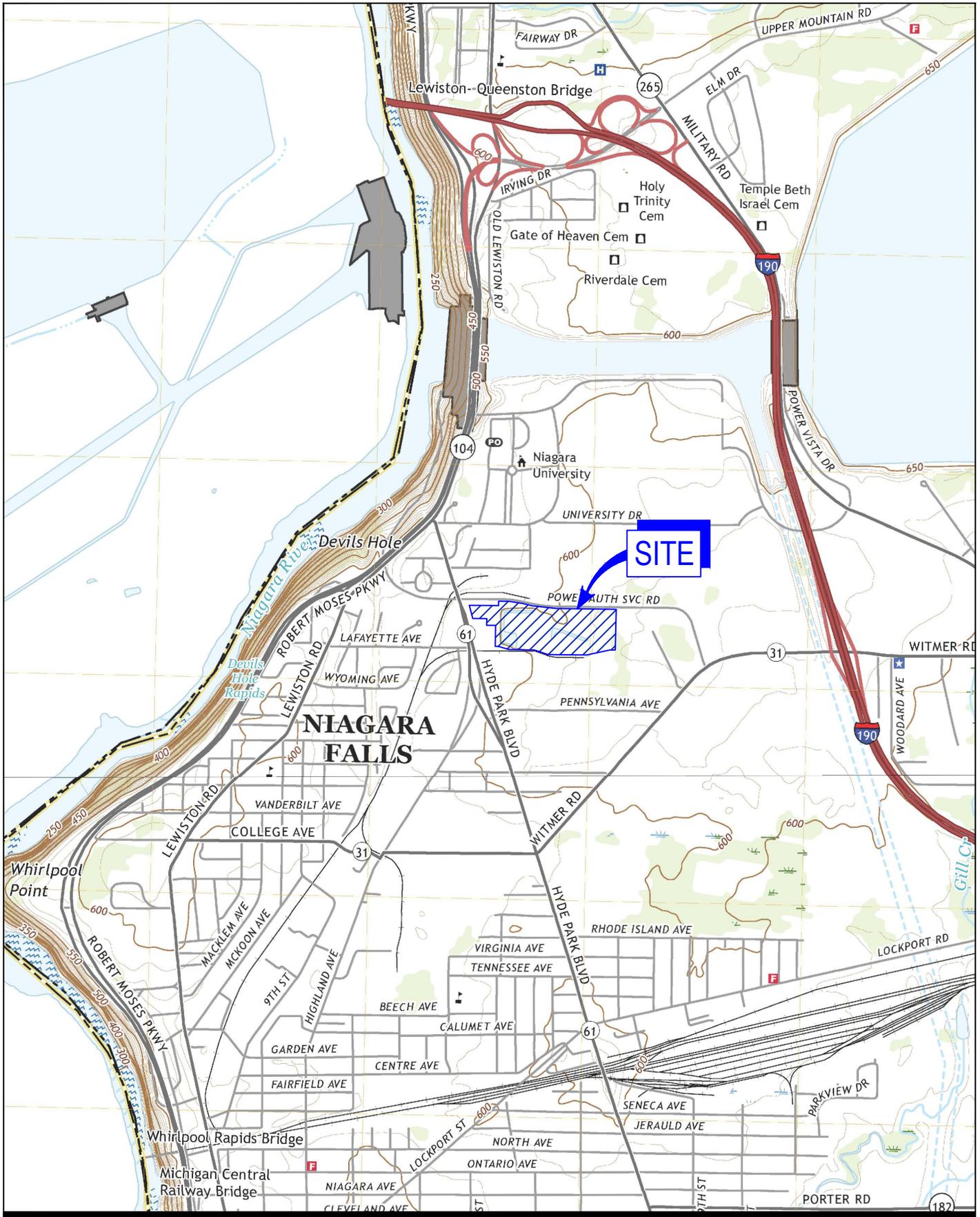
Based on the evaluation of data presented within this PRR, no changes in the OM&M activities for the Site are recommended at this time, except for the following:

- Change the frequency of manual NAPL recovery and associated NAPL thickness measurements at SC-2, SC-5, and SC-6 to annual.

In addition, implement the changes recommended in the *Five-Year Site Remedial Performance Report – 2017-2021* dated May 2, 2022, with subsequent modifications presented in Section 5.2.3 of this PRR, as follows:

- Modify the Quarterly Group B Bedrock sampling program to only include sampling of piezometers B2L-11 and D1U-05. The need for continued quarterly sampling of these piezometers will be evaluated in the annual PRRs.
- Modify the Fifth Quarter Group A Bedrock sampling program to consist of sampling for VOCs in all Group A Bedrock piezometers, but sample for organic acids only in the following six piezometers: AGW-1M-07, G6-04, G6-05, G6-06, H2M-06, and H2U-02. Discontinue collection of samples for analysis of SVOCs and sulfate.
- Create a new Five-Year Group A Bedrock sampling program which will consist of sampling for organic acids and SVOCs in all Group A Bedrock piezometers every five years, to be performed concurrently with the 5-Year Bloody Run and 5-Year APL/NAPL Purge Well sampling programs.

Figures

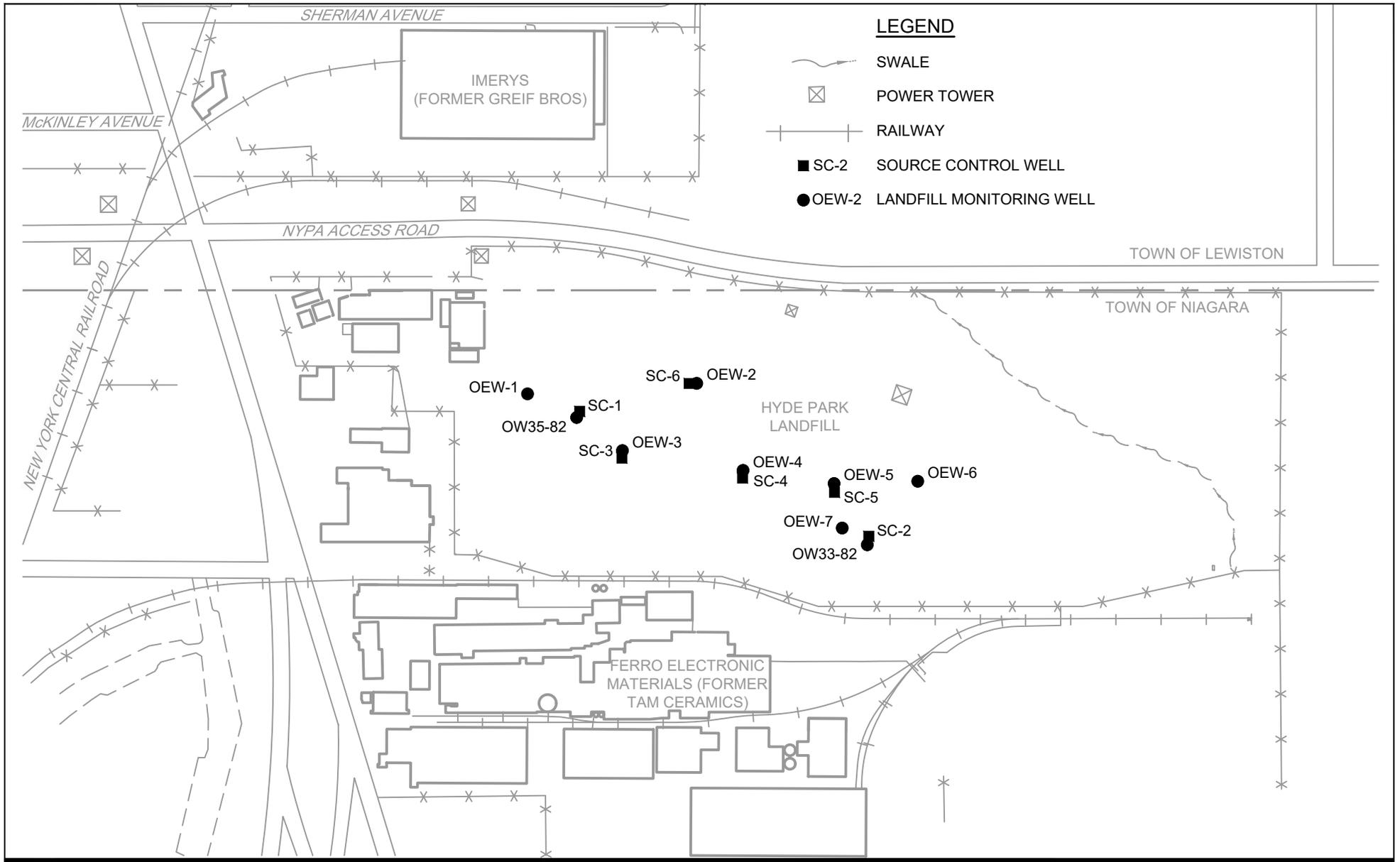


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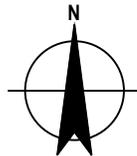
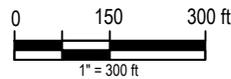
Project No. 11230216
 Date April 2024

SITE LOCATION

FIGURE 1.1



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.

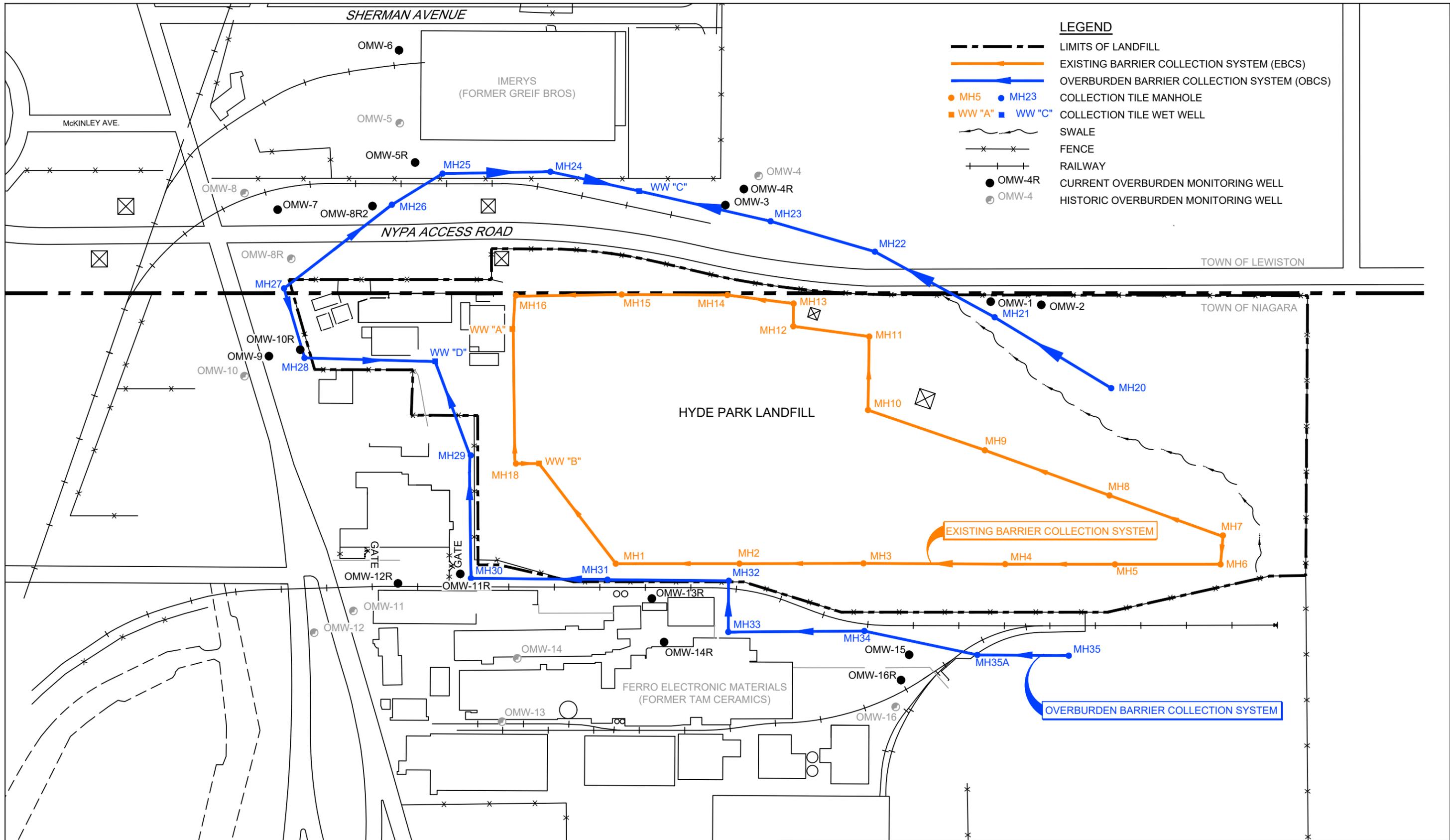


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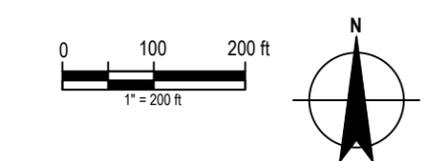
SOURCE CONTROL SYSTEM WELL
 LOCATIONS

FIGURE 1.2



LEGEND

- LIMITS OF LANDFILL
- EXISTING BARRIER COLLECTION SYSTEM (EBCS)
- OVERBURDEN BARRIER COLLECTION SYSTEM (OBCS)
- MH5 ● MH23 COLLECTION TILE MANHOLE
- WW "A" ■ WW "C" COLLECTION TILE WET WELL
- ~ SWALE
- ×× FENCE
- + + RAILWAY
- OMW-4R CURRENT OVERBURDEN MONITORING WELL
- OMW-4 HISTORIC OVERBURDEN MONITORING WELL



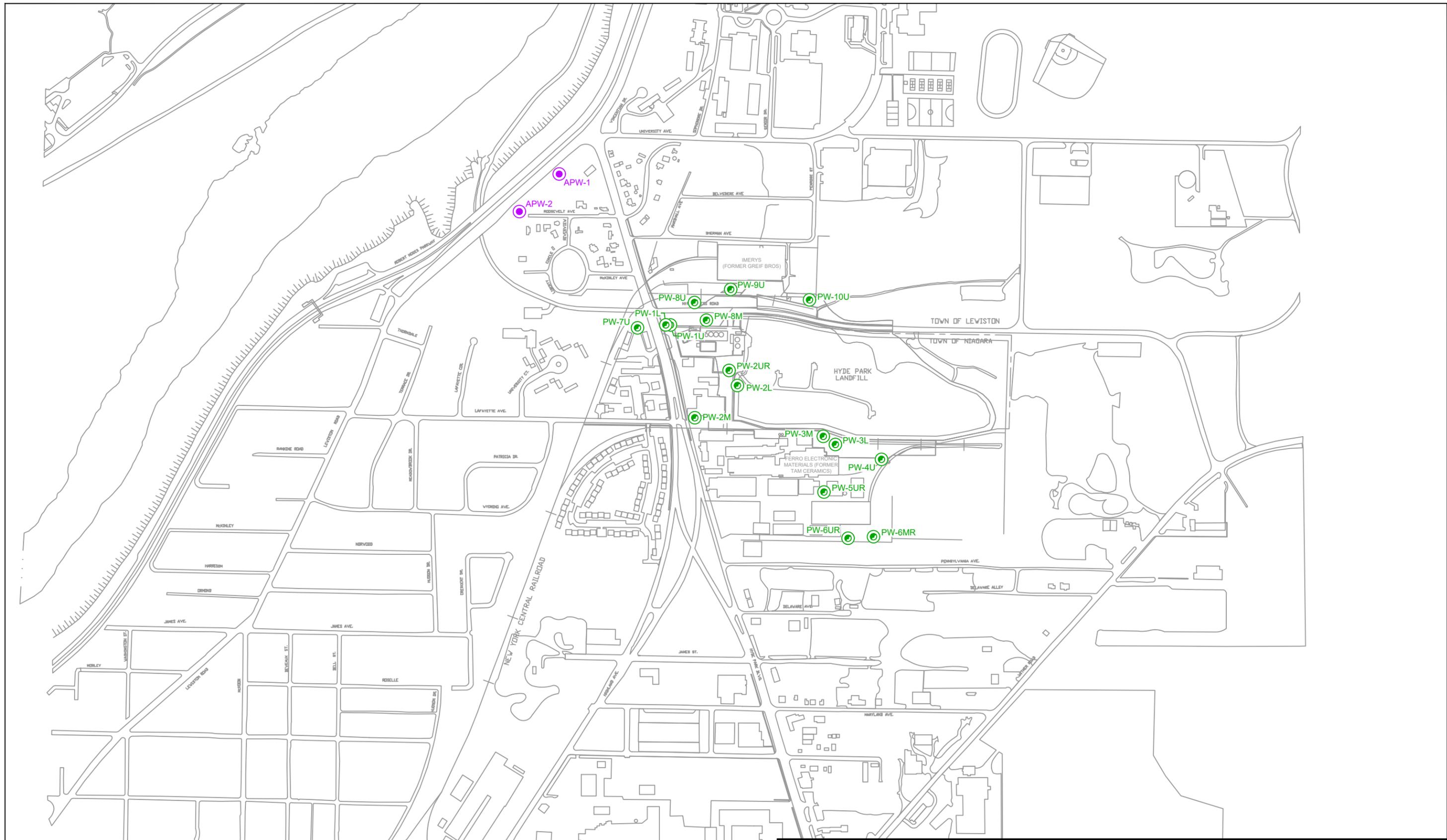
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HYDE PARK LANDFILL SITE
NIAGARA FALLS, NEW YORK

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Date April 2024

OVERBURDEN RRT SYSTEM

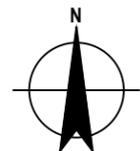
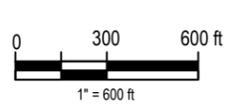
FIGURE 1.3

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LEGEND

- APW-2 APL PLUME CONTAINMENT SYSTEM PURGE WELL
- PW NAPL PLUME CONTAINMENT SYSTEM PURGE WELL

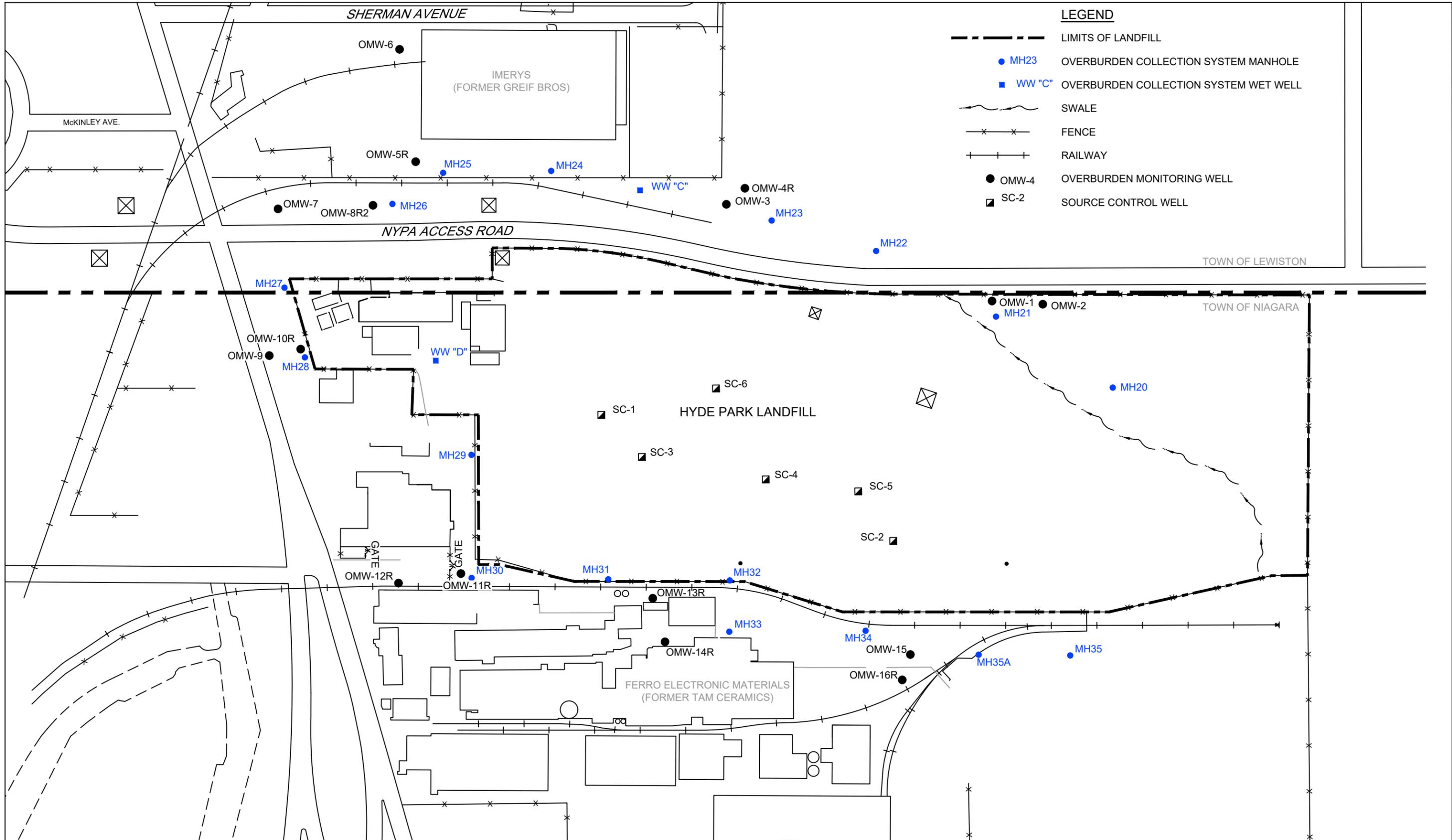


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BEDROCK RRT SYSTEM

Project No. 11230216
Date April 2024

FIGURE 1.4



LEGEND

| | |
|--|--|
| | LIMITS OF LANDFILL |
| | MH23 OVERBURDEN COLLECTION SYSTEM MANHOLE |
| | WW "C" OVERBURDEN COLLECTION SYSTEM WET WELL |
| | SWALE |
| | FENCE |
| | RAILWAY |
| | OMW-4 OVERBURDEN MONITORING WELL |
| | SC-2 SOURCE CONTROL WELL |

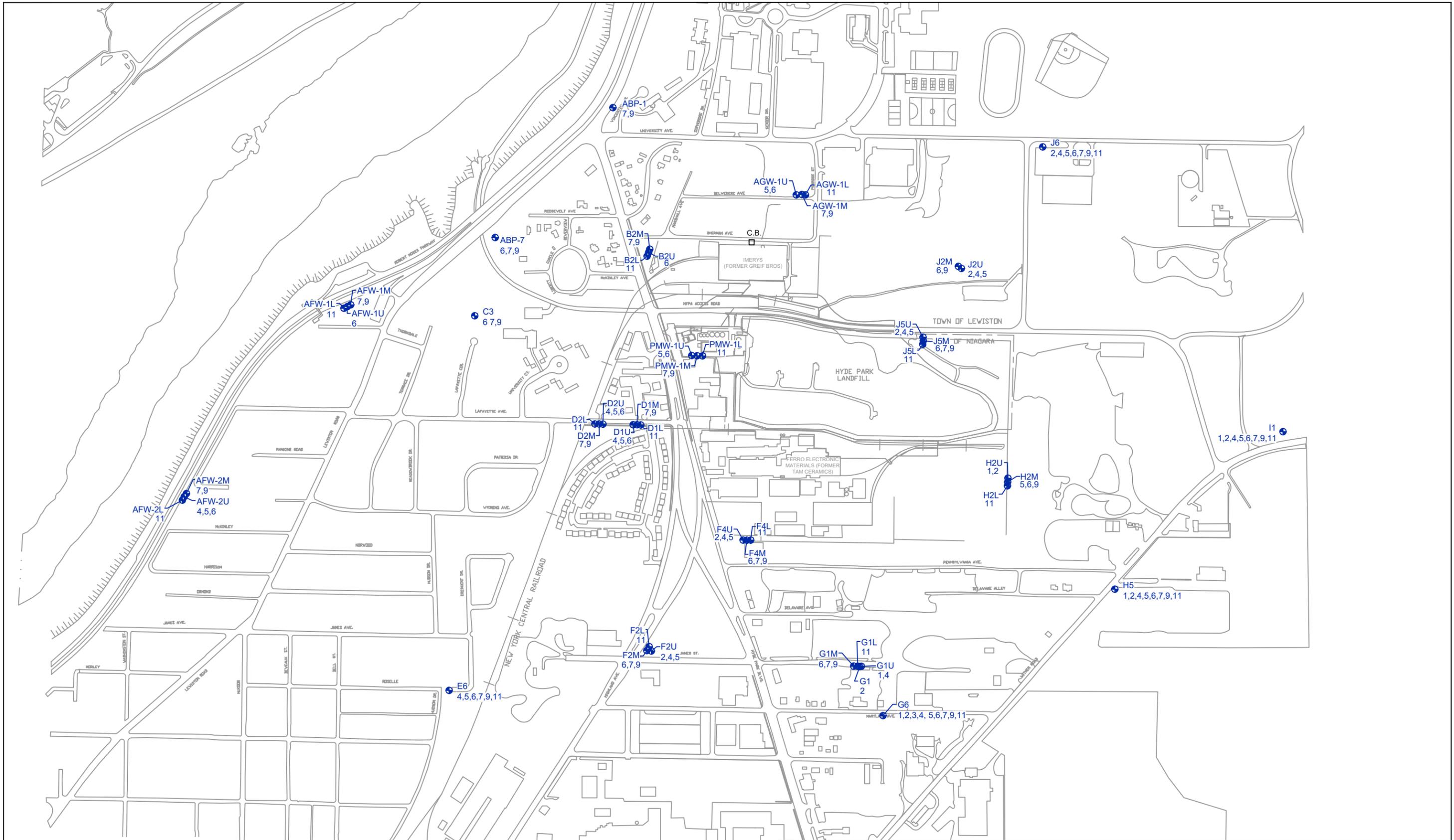
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NIAGARA FALLS, NEW YORK

Project No. 11230216
Date April 2024

OVERBURDEN MONITORING PROGRAM

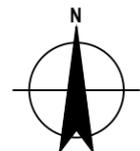
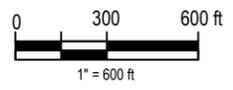
FIGURE 1.5

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LEGEND

- F2U BEDROCK FLOW ZONE PIEZOMETER LOCATION
- 2,4,5 FLOW ZONES INSTRUMENTED
- C.B. BEDROCK OPEN CATCHBASIN

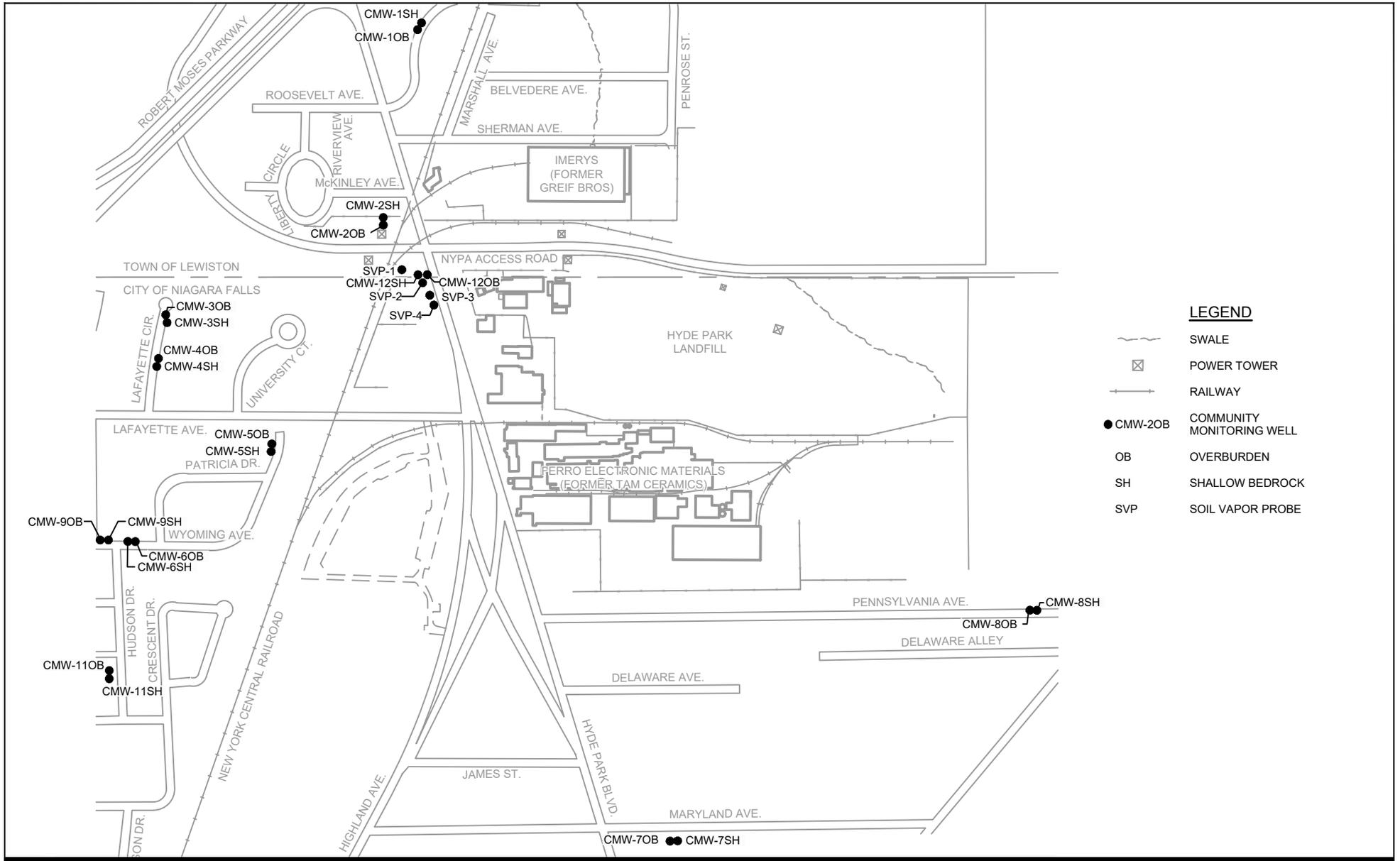


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BEDROCK MONITORING PROGRAM

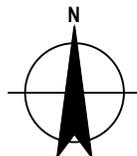
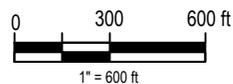
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FIGURE 1.6



LEGEND

-  SWALE
-  POWER TOWER
-  RAILWAY
-  CMW-2OB COMMUNITY MONITORING WELL
- OB** OVERBURDEN
- SH** SHALLOW BEDROCK
- SVP** SOIL VAPOR PROBE



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COMMUNITY MONITORING PROGRAM

FIGURE 1.7

Tables

Table 1.1

**PMP Monitoring Tasks - 2023
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 NAPL Thickness | Source Control NAPL Recovery Well SC-3 | Table 3.3 | Table 3.1 | Yes | |
| | | | Source Control NAPL Recovery Well SC-3 | Table 3.3 | - | Yes | |
| | Quarterly | Hand Water Level Measurement Hand Water Level Measurement Hand Water Level Measurement NAPL Thickness | Manholes | Table 3.2 | Table 3.2 | Yes | |
| | | | OBCS Overburden Monitoring Wells | Table 3.2 | Table 3.2 | Yes | |
| | | | Source Control Monitoring Wells | Table 3.3 | Table 3.2 | Yes | |
| Source Control Monitoring Wells | | | Table 3.3 | Table 3.1 | Yes | | |
| Semiannual | NAPL Thickness | Source Control Monitoring Wells | Table 3.3 | Table 3.1 | Yes | | |
| Annual | NAPL Presence NAPL Presence | Manholes | Table 3.2 | Table 3.3 | Yes | | |
| | | 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 APL Sampling | All Bedrock Piezometers | - | Table 3.5 | Yes | |
| | | | 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 | Completed 4th Quarter 2023 |
| | Annual | APL Sampling NAPL Presence | Open Catch Basin | - | Table 3.9 | Yes | |
| | | | Open Catch Basin | - | - | Yes | None present |
| Five-Year | APL Sampling APL Sampling | Bloody Run Monitoring Wells | Table 7.1 | - | No | Completed in 2021 | |
| | | Operating APL and NAPL Purge Wells | Table 7.1 | - | No | Completed in 2021/2022 | |
| Community | Quarterly | Hand Water Level Measurement | Bedrock Monitoring Wells | Table 5.4 | Table 3.11 | Yes | |
| | | Hand Water Level Measurement | Overburden Monitoring Wells | Table 5.4 | Table 3.11 | Yes | |
| | Annual | APL Plume Flux Composite Sample Vapor Monitoring | APL Flux Piezometers and Purge Wells (APWs and AFWs) | Table 5.3/App D | Table 3.10 | Yes | |
| | | | Overburden Monitoring Wells | Table 5.4 | Table 3.12 | Yes | |
| Five-Year | Gorge Face Seep Inspection | Seeps | Table 5.2 | - | No | Completed in 2021 | |

Table 1.1

**PMP Monitoring Tasks - 2023
Hyde Park Landfill Site
Town of Niagara, New York**

| Program | Frequency | Activity | Location/Description | PMP Table Reference | PRR Report Reference | Completed (Yes/No) | Comment |
|--------------------|------------------|--------------------|-----------------------------|----------------------------|-----------------------------|---------------------------|------------------------|
| 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 | See quarterly reports |
| | | APL Sampling | Treated Effluent | Table 6.1 | - | Yes | |
| | Quarterly | NAPL Volumes | Decanters | - | Table 4.1 | Yes | See quarterly reports |
| | | APL Sampling | Leachate Feed | Table 6.1 | Table 4.3 | Yes | |
| APL Sampling | | Sac Bed Interstage | Table 6.1 | Table 4.4 | Yes | | |
| APL Sampling | | Treated Effluent | Table 6.1 | - | Yes | | |
| 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 | Completed in 2023 |
| | Annual | Report | - | - | - | Yes | Completed in 2023 |
| | Five-Year | Report | - | - | - | No | Completed in 2021 |

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

**2023 Source Control Well NAPL Pumping Summary
Hyde Park Landfill Site
Town of Niagara, New York**

| Month | SC-2 | | | SC-3 | | | SC-4 | | | SC-5 | | | SC-6 | | | Total NAPL Recovered (gallons) |
|--------------------|-----------------------|----------------------------------|--------------------------|-----------------------|----------------------------------|--------------------------|-----------------------|----------------------------------|--------------------------|-----------------------|----------------------------------|--------------------------|-----------------------|----------------------------------|--------------------------|--------------------------------|
| | NAPL Thickness (feet) | Groundwater Elevation (ft. AMSL) | NAPL Recovered (gallons) | NAPL Thickness (feet) | Groundwater Elevation (ft. AMSL) | NAPL Recovered (gallons) | NAPL Thickness (feet) | Groundwater Elevation (ft. AMSL) | NAPL Recovered (gallons) | NAPL Thickness (feet) | Groundwater Elevation (ft. AMSL) | NAPL Recovered (gallons) | NAPL Thickness (feet) | Groundwater Elevation (ft. AMSL) | NAPL Recovered (gallons) | |
| January - March | 1.11 | 603.03 | 0.0 | 2.45 | 599.05 | 23.0 | 2.70 | 599.94 | 6.0 | NA | 602.46 | NA | NA | 612.31 | NA | 29.0 |
| April - June | 1.15 | 603.33 | 1.8 | 2.00 | 599.42 | 34.8 | 1.40 | 600.03 | 5.3 | 0.02 | 602.43 | 0.0 | 0.25 | 612.29 | 0.0 | 41.8 |
| July - September | 0.92 | 603.09 | 0.0 | 2.40 | 599.14 | 30.3 | 1.50 | 600.00 | 6.8 | NA | 602.38 | NA | NA | 611.93 | NA | 37.0 |
| October - December | 0.80 | 602.89 | 0.0 | 2.45 | 598.88 | 29.3 | 2.30 | 599.92 | 6.5 | 0.05 | 602.42 | 0.0 | 0.03 | 610.22 | 0.0 | 35.8 |
| Totals | | | 1.8 | | | 117.3 | | | 24.5 | | | 0.0 | | | 0.0 | 143.5 |

Notes:

ft. AMSL - Feet Above Mean Sea Level

NAPL - Non-Aqueous Phase Liquid

NAPL Thickness and Groundwater Elevations indicated are quarterly measurements. Monthly NAPL thickness measured at SC-3 is not shown.

NA - NAPL thickness measurement was performed semi-annually at SC-5 and SC-6 in 2023.

**2023 Overburden Quarterly Groundwater Elevation Summary
Hyde Park Landfill Site
Town of Niagara, New York**

| Well | Reference Elevation (ft. AMSL) | Groundwater Elevation Quarter 1 3/9/2023 (ft. AMSL) | Groundwater Elevation Quarter 2 6/8/2023 (ft. AMSL) | Groundwater Elevation Quarter 3 9/14/2023 (ft. AMSL) | Groundwater Elevation Quarter 4 12/14/2023 (ft. AMSL) |
|---------|---------------------------------------|---|---|--|---|
| | | | | | |
| OMW-1 | 605.28 | 601.05 | 598.11 | 598.41 | 599.52 |
| OMW-2 | 605.99 | 603.20 | 600.57 | 600.34 | 602.13 |
| OMW-3 | 598.63 | 593.34 | 587.81 | 587.13 | 589.37 |
| OMW-4R | 601.17 | 590.43 | 589.71 | 589.10 | 589.06 |
| OMW-5R | 591.31 | 588.39 | 583.71 | 584.50 | 585.38 |
| OMW-6 | 587.62 | 586.04 | 585.45 | 585.55 | 585.75 |
| OMW-7 | 592.74 | 586.62 | 583.89 | 584.16 | 585.18 |
| OMW-8R2 | 594.67 | 587.81 | 584.36 | 584.46 | 585.83 |
| OMW-9 | 595.52 | 589.47 | 586.22 | 587.01 | 587.24 |
| OMW-10R | 595.13 | 589.38 | 585.86 | 586.06 | 586.25 |
| OMW-11R | 597.52 | 594.85 | 592.14 | 593.52 | 593.52 |
| OMW-12R | 597.20 | NM ⁽¹⁾ | 592.56 | 592.51 | 593.05 |
| OMW-13R | 601.50 | 594.14 | 593.30 | 593.55 | 593.55 |
| OMW-14R | 599.64 | 598.97 | 594.40 | 596.74 | 598.76 |
| OMW-15 | 607.48 | 603.32 | 602.23 | 601.65 | 601.98 |
| OMW-16R | 607.62 | 603.82 | 601.80 | 601.82 | 603.28 |
| SC-2 | 625.61 | 603.03 | 603.33 | 603.09 | 602.89 |
| SC-3 | 638.72 | 599.05 | 599.42 | 599.14 | 598.88 |
| SC-4 | 639.35 | 599.94 | 600.03 | 600.00 | 599.92 |
| SC-5 | 634.07 | 602.46 | 602.43 | 602.38 | 602.42 |
| SC-6 | 631.15 | 612.31 | 612.29 | 611.93 | 610.22 |
| MH-20 | 605.87 | 601.24 | 601.20 | 601.23 | 601.20 |
| MH-21 | 599.77 | 593.77 | 593.73 | 593.69 | 593.70 |
| MH-22 | 593.37 | 586.70 | Dry | Dry | Dry |
| MH-23 | 587.05 | 578.37 | 574.73 | Dry | 574.90 |
| MH-24 | 582.57 | 580.39 | 575.70 | 574.00 | 574.01 |
| MH-25 | 583.82 | 582.01 | 577.34 | 575.61 | 575.64 |
| MH-26 | 584.48 | 581.13 | 576.44 | 575.51 | 575.52 |
| MH-27 | 586.12 | 579.44 | 575.49 | 575.42 | 575.49 |
| MH-28 | 585.23 | 576.50 | 569.25 | 568.75 | 569.13 |
| MH-29 | 582.90 | 595.86 | 588.35 | 589.51 | 589.60 |
| MH-30 | 588.37 | 590.94 | 589.46 | 589.45 | 579.18 |
| MH-31 | 590.10 | 580.63 | 580.49 | 580.54 | 580.45 |
| MH-32 | 592.01 | 582.41 | 582.39 | 582.36 | 582.39 |
| MH-33 | 592.51 | 583.82 | 583.81 | 583.76 | 583.82 |
| MH-34 | 597.64 | 591.22 | 591.22 | 591.27 | 591.18 |
| MH-35 | 605.69 | 599.16 | 599.14 | 599.14 | 599.12 |
| MH-35A | 605.69 | 598.54 | 598.54 | 598.07 | 598.49 |

Notes:

- Dry - No water present in well
 NM⁽¹⁾ - Not measured due to ice and snow accumulation on top of well
 ft. AMSL - Feet Above Mean Sea Level

**2023 Overburden NAPL Presence Monitoring
Hyde Park Landfill Site
Town of Niagara, New York**

| Well I.D. | February 16 - May 19, 2023 (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 | Yes |

Table 3.4

**2023 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 | 1.3 | 30.0 | 19.6 | 1.3 | 49.7 |
| February | 0.5 | 24.5 | 15.3 | 0.5 | 39.8 |
| March | 1.2 | 26.8 | 35.5 | 1.2 | 62.3 |
| April | 0.9 | 26.3 | 21.2 | 0.9 | 47.5 |
| May | 0.4 | 10.4 | 4.8 | 0.4 | 15.2 |
| June | 0.3 | 3.4 | 2.7 | 0.3 | 6.1 |
| July | 0.2 | 9.1 | 7.2 | 0.2 | 16.4 |
| August | 0.1 | 8.9 | 4.0 | 0.1 | 12.9 |
| September | 0.1 | 2.6 | 1.8 | 0.1 | 4.3 |
| October | 0.0 | 1.9 | 1.9 | 0.0 | 3.7 |
| November | 0.0 | 2.9 | 2.5 | 0.0 | 5.4 |
| December | 0.6 | 16.3 | 15.6 | 0.6 | 31.9 |
| Annual Average | 0.5 | 13.6 | 11.0 | 0.5 | 24.6 |

Notes:

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

**2023 Bedrock Quarterly Groundwater Elevation Summary - Piezometers
Hyde Park Landfill Site
Town of Niagara, New York**

| Well | Reference Elevation (ft. AMSL) | Groundwater Elevation Quarter 1 3/9/2023 (ft. AMSL) | Groundwater Elevation Quarter 2 6/8/2023 (ft. AMSL) | Groundwater Elevation Quarter 3 9/14/2023 (ft. AMSL) | Groundwater Elevation Quarter 4 12/14/2023 (ft. AMSL) |
|--------------------|--|--|--|---|--|
| Flow Zone 1 | | | | | |
| G1U-01 | 617.08 | 606.86 | 602.67 | 601.20 | 567.03 |
| G6-01 | 609.24 | 606.15 | 602.90 | 601.25 | 601.31 |
| H2U-01 | 620.92 | 613.36 | 607.43 | 607.15 | 608.42 |
| H5-01 | 617.61 | 594.68 | 600.40 | 599.83 | 601.16 |
| I1-01 | 625.58 | 603.23 | 600.77 | 599.12 | 598.44 |
| Flow Zone 2 | | | | | |
| F2U-02 | 599.89 | 576.80 | 575.60 | 575.08 | 575.56 |
| F4U-02 | 602.32 | 587.97 | 586.12 | 585.92 | 586.81 |
| G1-02 | 616.86 | 594.71 | 592.51 | 592.12 | 594.41 |
| G6-02 | 608.65 | 593.09 | 591.30 | 590.96 | 591.59 |
| H2U-02 | 620.88 | 596.11 | 593.26 | 593.36 | 593.84 |
| H5-02 | 617.47 | 595.99 | 594.72 | 593.56 | 593.94 |
| I1-02 | 625.47 | 593.84 | 588.24 | 587.03 | 585.94 |
| J2U-02 | 609.66 | 601.00 | 594.65 | 593.80 | 597.59 |
| J5U-02 | 606.21 | 600.75 | 597.83 | 594.30 | 597.43 |
| J6-02 | 609.23 | 604.16 | 595.72 | 594.75 | 599.21 |
| Flow Zone 4 | | | | | |
| AFW-2U-04 | 593.48 | 578.88 | 576.91 | 576.25 | 575.43 |
| D1U-04 | 593.77 | 583.82 | 583.70 | 579.97 | 581.21 |
| D2U-04 | 590.65 | 582.61 | 578.79 | 578.27 | 578.49 |
| E6-04 | 578.23 | 566.96 | 565.42 | 565.04 | 566.96 |
| F2U-04 | 599.76 | 579.70 | 577.78 | 576.97 | 577.84 |
| F4U-04 | 602.19 | 588.93 | 586.08 | 585.76 | 586.88 |
| F6-04 | 588.06 | 570.52 | 570.13 | 569.90 | 570.16 |
| G1U-04 | 616.96 | 594.79 | 592.37 | 592.07 | 592.65 |
| G6-04 | 609.15 | 593.40 | 591.60 | 591.27 | 591.90 |
| H5-04 | 617.40 | 595.82 | 593.67 | 593.23 | 593.62 |
| I1-04 | 625.30 | 591.57 | 586.10 | 585.44 | 585.37 |
| J2U-04 | 609.42 | 597.65 | 593.29 | 591.51 | 595.01 |
| J5U-04 | 606.05 | 591.92 | 587.33 | 586.92 | 588.93 |
| J6-04 | 609.12 | 585.76 | 579.69 | 579.61 | 582.42 |
| Flow Zone 5 | | | | | |
| AFW-2U-05 | 593.33 | 578.76 | 576.93 | 576.19 | 575.37 |
| AGW-1U-05 | 591.80 | 590.86 | 585.52 | 586.42 | 587.57 |
| D1U-05 | 593.51 | 582.21 | 579.68 | 579.08 | 579.64 |
| D2U-05 | 590.56 | 581.99 | 579.40 | 578.84 | 579.89 |
| E6-05 | 578.04 | 567.45 | 565.69 | 565.44 | 567.15 |
| F2U-05 | 599.64 | 580.13 | 577.51 | 577.44 | 578.39 |
| F4U-05 | 602.06 | 587.69 | 583.46 | 582.56 | 586.67 |
| F6-05 | 587.85 | 570.35 | 570.07 | 569.79 | 570.03 |
| G6-05 | 609.13 | 593.15 | 591.33 | 591.03 | 591.71 |
| H2M-05 | 621.59 | 593.91 | 592.39 | 591.97 | 591.27 |
| H5-05 | 617.31 | 595.29 | 593.48 | 592.94 | 592.00 |
| I1-05 | 625.25 | 553.54 | 553.99 | 553.34 | 551.53 |
| J2U-05 | 609.30 | 585.74 | 579.59 | 579.52 | 582.18 |
| J5U-05 | 605.87 | 586.16 | 580.03 | 579.94 | 582.73 |
| J6-05 | 609.02 | 585.10 | 579.26 | 579.27 | 581.85 |
| PMW-1U-05 | 598.00 | 581.24 | 580.09 | 578.28 | 578.63 |

**2023 Bedrock Quarterly Groundwater Elevation Summary - Piezometers
Hyde Park Landfill Site
Town of Niagara, New York**

| Well | Reference Elevation (ft. AMSL) | Groundwater Elevation Quarter 1 3/9/2023 (ft. AMSL) | Groundwater Elevation Quarter 2 6/8/2023 (ft. AMSL) | Groundwater Elevation Quarter 3 9/14/2023 (ft. AMSL) | Groundwater Elevation Quarter 4 12/14/2023 (ft. AMSL) |
|--------------------|--|--|--|---|--|
| Flow Zone 6 | | | | | |
| ABP-7-06 | 575.78 | Dry | Dry | Dry | Dry |
| AFW-1U-06 | 571.83 | 557.32 | 556.23 | 556.16 | 556.48 |
| AFW-2U-06 | 593.22 | 545.40 | 545.13 | Dry | Dry |
| AGW-1U-06 | 591.66 | 554.89 | 553.53 | 552.20 | 552.06 |
| B2U-06 | 589.29 | 555.92 | 553.80 | 553.32 | 553.30 |
| C3-06 | 585.78 | 549.26 | Dry | Dry | Dry |
| D1U-06 | 593.25 | 548.79 | 548.29 | 547.62 | 546.30 |
| D2U-06 | 590.38 | 549.47 | 548.87 | 548.16 | 547.08 |
| E6-06 | 577.99 | 575.02 | 573.88 | 573.59 | 574.09 |
| F2M-06 | 599.06 | 549.96 | 548.70 | 547.76 | 547.02 |
| F4M-06 | 602.05 | 552.10 | 551.62 | 550.24 | 550.64 |
| F6-06 | 587.84 | 574.86 | 573.89 | 573.62 | 574.14 |
| G1M-06 | 616.75 | 575.20 | 574.05 | 573.85 | 574.19 |
| G6-06 | 609.09 | 576.78 | 575.34 | 575.03 | 578.46 |
| H2M-06 | 621.42 | 584.72 | 586.61 | 586.35 | 582.85 |
| H5-06 | 617.17 | 590.41 | 590.84 | 590.46 | 589.61 |
| I1-06 | 625.15 | 548.97 | 549.13 | 549.32 | 549.11 |
| J2M-06 | 608.94 | 555.47 | 555.22 | 553.43 | 553.61 |
| J5M-06 | 606.22 | 548.74 | 548.12 | 547.84 | 546.02 |
| J6-06 | 608.93 | 555.33 | 555.92 | 555.12 | 554.46 |
| PMW-1U-06 | 597.92 | 548.74 | 550.19 | 548.03 | 547.44 |
| Flow Zone 7 | | | | | |
| ABP-1-07 | 576.44 | 547.59 | 548.00 | 546.68 | 547.22 |
| ABP-7-07 | 575.73 | 534.78 | 533.10 | 533.25 | 535.26 |
| AFW-1M-07 | 571.41 | Dry | Dry | Dry | Dry |
| AFW-2M-07 | 593.44 | 526.91 | 526.54 | 526.49 | 526.32 |
| AGW-1M-07 | 592.91 | 546.41 | 552.58 | 552.30 | 545.62 |
| B2M-07 | 589.52 | Dry | 531.97 | Dry | 530.43 |
| C3-07 | 585.62 | 547.02 | 543.17 | 542.56 | 543.34 |
| D1M-07 | 594.15 | 524.88 | 524.41 | 525.01 | 524.62 |
| D2M-07 | 590.77 | 526.15 | 523.12 | Dry | 525.04 |
| E6-07 | 577.91 | 554.69 | 554.94 | 554.76 | 554.54 |
| F2M-07 | 598.91 | 519.37 | 516.79 | 516.37 | 519.67 |
| F4M-07 | 601.91 | 527.95 | 554.51 | 524.69 | 525.74 |
| F6-07 | 587.68 | 567.25 | 567.62 | 567.62 | 567.61 |
| G1M-07 | 616.68 | 582.02 | 578.68 | 577.78 | 577.93 |
| G6-07 | 609.06 | 581.76 | 578.66 | 577.90 | 578.31 |
| H5-07 | 617.05 | 557.31 | 557.73 | 557.02 | 555.94 |
| I1-07 | 625.14 | 543.24 | 550.31 | 550.68 | 545.46 |
| J5M-07 | 606.07 | 546.41 | 551.57 | 551.56 | 545.60 |
| J6-07 | 608.85 | 546.44 | 550.64 | 550.91 | 545.55 |
| PMW-1M-07 | 598.50 | 528.81 | 528.37 | 528.98 | 529.35 |

**2023 Bedrock Quarterly Groundwater Elevation Summary - Piezometers
Hyde Park Landfill Site
Town of Niagara, New York**

| Well | Reference Elevation (ft. AMSL) | Groundwater Elevation Quarter 1 3/9/2023 (ft. AMSL) | Groundwater Elevation Quarter 2 6/8/2023 (ft. AMSL) | Groundwater Elevation Quarter 3 9/14/2023 (ft. AMSL) | Groundwater Elevation Quarter 4 12/14/2023 (ft. AMSL) |
|---------------------|--|--|--|---|--|
| Flow Zone 9 | | | | | |
| ABP-1-09 | 575.49 | 534.58 | 534.98 | 534.53 | 534.00 |
| ABP-7-09 | 575.67 | 534.64 | 533.64 | 534.34 | 535.49 |
| AFW-1M-09 | 571.12 | 535.09 | 525.62 | 524.55 | 524.52 |
| AFW-2M-09 | 593.32 | 520.97 | 520.96 | 521.04 | 520.92 |
| AGW-1M-09 | 592.75 | 546.46 | 554.09 | 551.84 | 546.07 |
| B2M-09 | 589.34 | 531.28 | 530.61 | Dry | 539.77 |
| C3-09 | 585.00 | 544.29 | 541.82 | 541.42 | 541.25 |
| D1M-09 | 594.02 | 518.28 | 519.94 | 523.92 | 520.06 |
| D2M-09 | 590.66 | 518.31 | 515.51 | 515.21 | 519.07 |
| E6-09 | 577.82 | 552.54 | 553.15 | 552.68 | 551.98 |
| F2M-09 | 598.71 | 517.94 | 515.33 | 515.01 | 518.73 |
| F4M-09 | 601.79 | 517.94 | 515.30 | 514.99 | 519.84 |
| F6-09 | 587.53 | 570.21 | 569.69 | 569.43 | 571.12 |
| G1M-09 | 616.58 | 579.60 | 580.18 | 579.58 | 576.37 |
| G6-09 | 608.98 | 582.63 | 579.34 | 578.42 | 578.90 |
| H2M-09 | 621.32 | 547.28 | 548.47 | 548.71 | 545.74 |
| H5-09 | 616.93 | 545.95 | 549.09 | 549.63 | 545.96 |
| I1-09 | 624.91 | 563.68 | 563.68 | 563.89 | 563.53 |
| J2M-09 | 608.77 | 546.58 | 550.94 | 551.17 | 545.94 |
| J5M-09 | 605.82 | 546.71 | 550.46 | 552.94 | 545.92 |
| J6-09 | 608.76 | 567.75 | 564.21 | 564.36 | 563.74 |
| PMW-1M-09 | 598.34 | 518.30 | Dry (<515.92) | Dry (<515.92) | 521.53 |
| Flow Zone 11 | | | | | |
| AFW-1L-11 | 572.10 | 517.99 | 509.55 | 506.25 | 507.47 |
| AFW-2L-11 | 593.43 | 498.05 | 496.63 | 496.52 | 496.27 |
| AGW-1L-11 | 592.71 | 585.17 | 583.90 | 585.50 | 584.91 |
| B2L-11 | 589.65 | 499.07 | 504.39 | 498.49 | 504.19 |
| D1L-11 | 593.80 | 503.25 | 502.55 | 502.92 | 502.79 |
| D2L-11 | 590.21 | 525.36 | 525.07 | 524.40 | 524.48 |
| E6-11 | 577.72 | 533.42 | 532.51 | 531.68 | 530.17 |
| F2L-11 | 598.94 | 555.92 | 555.45 | 555.44 | 548.40 |
| F4L-11 | 602.22 | 570.00 | 569.87 | 569.71 | 569.34 |
| F6-11 | 587.40 | 527.93 | 527.84 | 526.88 | 525.45 |
| G1L-11 | 616.84 | 555.89 | 557.52 | 556.06 | 551.75 |
| G6-11 | 608.89 | 558.79 | 560.48 | 558.99 | 554.31 |
| H2L-11 | 620.73 | 554.38 | 554.04 | 553.99 | 553.73 |
| H5-11 | 616.81 | 541.93 | 544.90 | 542.90 | 540.60 |
| I1-11 | 624.75 | 546.82 | 547.17 | 547.23 | 547.22 |
| J5L-11 | 607.20 | 545.47 | 545.97 | 545.51 | 542.17 |
| J6-11 | 608.68 | 585.71 | 586.21 | 585.47 | 584.65 |
| PMW-1L-11 | 598.84 | 513.44 | 515.83 | 514.81 | 513.86 |

Notes:

Dry - No water present in well
ft. AMSL - Feet Above Mean Sea Level

Table 3.6

**2023 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-5UR | PW-6UR | PW-6MR |
|----------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
| January | 0.27 | 4.96 | 1.01 | 0.87 | 1.21 | 1.74 | 5.26 | 0.17 | 0.00 | 0.93 | 6.14 |
| February | 6.60 | 1.74 | 0.99 | 11.33 | 0.51 | 2.64 | 4.09 | 0.16 | 1.81 | 0.88 | 5.31 |
| March | 0.14 | 1.46 | 0.90 | 7.75 | 0.78 | 2.49 | 2.66 | 0.14 | 2.03 | 0.79 | 4.46 |
| April | 1.68 | 1.33 | 1.13 | 9.96 | 0.57 | 3.54 | 3.11 | 0.16 | 2.41 | 0.96 | 5.37 |
| May | 2.07 | 0.95 | 0.96 | 8.30 | 0.19 | 1.69 | 2.68 | 0.12 | 2.10 | 0.76 | 4.86 |
| June | 2.03 | 0.81 | 0.79 | 7.28 | 0.16 | 1.06 | 2.34 | 0.08 | 1.90 | 0.62 | 4.73 |
| July | 0.40 | 0.83 | 0.73 | 6.77 | 0.18 | 0.10 | 2.24 | 0.05 | 1.80 | 0.56 | 4.63 |
| August | 0.10 | 0.89 | 0.81 | 7.57 | 0.18 | 0.08 | 2.28 | 0.06 | 1.95 | 0.63 | 4.69 |
| September | 0.04 | 0.69 | 0.67 | 6.03 | 0.15 | 0.15 | 1.99 | 0.05 | 1.74 | 0.50 | 4.24 |
| October | 0.06 | 0.74 | 0.68 | 5.98 | 0.18 | 0.57 | 2.03 | 0.05 | 1.52 | 0.45 | 4.44 |
| November | 0.06 | 0.73 | 0.72 | 5.05 | 0.18 | 0.72 | 2.18 | 0.04 | 1.77 | 0.47 | 4.49 |
| December | 0.08 | 2.30 | 0.79 | 0.36 | 0.89 | 1.33 | 3.15 | 0.04 | 1.84 | 0.60 | 5.34 |
| Annual Average | 1.13 | 1.45 | 0.85 | 6.44 | 0.43 | 1.34 | 2.84 | 0.09 | 1.74 | 0.68 | 4.89 |

| Month | PW-7U | PW-8M | PW-8U | PW-9U | PW-10U | APW-1 | APW-2 |
|----------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|
| January | 0.00 | 0.23 | 1.12 | 0.00 | 2.87 | 0.63 | 0.94 |
| February | 0.15 | 0.00 | 1.07 | 0.00 | 2.99 | 0.44 | 0.94 |
| March | 0.49 | 0.20 | 0.98 | 0.00 | 2.53 | 1.00 | 0.97 |
| April | 0.71 | 0.32 | 1.07 | 0.00 | 2.85 | 1.00 | 0.99 |
| May | 0.62 | 0.00 | 0.82 | 0.00 | 2.38 | 0.32 | 0.63 |
| June | 0.31 | 0.00 | 0.76 | 0.68 | 2.04 | 0.24 | 0.42 |
| July | 0.56 | 0.00 | 0.68 | 0.94 | 1.97 | 0.36 | 0.49 |
| August | 0.57 | 0.00 | 0.67 | 0.97 | 2.01 | 0.34 | 0.52 |
| September | 0.48 | 0.00 | 0.51 | 0.74 | 1.48 | 0.20 | 0.32 |
| October | 0.48 | 0.00 | 0.59 | 0.82 | 1.41 | 0.20 | 0.29 |
| November | 0.50 | 0.00 | 0.60 | 0.83 | 1.49 | 0.22 | 0.24 |
| December | 0.54 | 0.00 | 0.63 | 0.90 | 1.65 | 0.48 | 0.17 |
| Annual Average | 0.45 | 0.06 | 0.79 | 0.49 | 2.14 | 0.45 | 0.58 |

Notes:

GPM - Gallons per minute

**Analytical Results Summary
Quarterly Group B Bedrock Piezometer Sampling
First Quarter 2023
Hyde Park Landfill Site
Town of Niagara, New York**

| Sample Location: | ABP-7-09 | AGW-1M-07 | AGW-1M-07 | AGW-1M-09 | AGW-1U-06 | |
|----------------------|---------------|-----------------|------------|----------------|----------------|-------|
| Sample ID: | ABP-7-09-0323 | AGW-1M-07-0323 | W7-10-0323 | AGW-1M-09-0323 | AGW-1U-06-0323 | |
| Sample Date: | 3/16/2023 | 3/16/2023 | 3/16/2023 | 3/16/2023 | 3/16/2023 | |
| Parameters | Units | Screening Level | | | | |
| Organic Acids | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 46 J | 58 J | 57 J | 160 J |
| | | | | | | 78 J |

| Sample Location: | B2L-11 | C3-07 | C3-09 | D1M-09 | D1U-04 | |
|----------------------|-------------|-----------------|------------|-------------|-------------|-------|
| Sample ID: | B2L-11-0323 | C3-07-0323 | C3-09-0323 | D1M-09-0323 | D1U-04-0323 | |
| Sample Date: | 3/16/2023 | 3/14/2023 | 3/14/2023 | 3/14/2023 | 3/14/2023 | |
| Parameters | Units | Screening Level | | | | |
| Organic Acids | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 36 |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 210 J | 250 U | 250 U | 190 J |
| | | | | | | 93 J |

| Sample Location: | D1U-05 | F2M-09 | F2U-02 | F2U-04 | G1U-01 | |
|----------------------|-------------|-----------------|-------------|-------------|-------------|-------|
| Sample ID: | D1U-05-0323 | F2M-09-0323 | F2U-02-0323 | F2U-04-0323 | G1U-01-0323 | |
| Sample Date: | 3/14/2023 | 3/15/2023 | 3/15/2023 | 3/15/2023 | 3/15/2023 | |
| Parameters | Units | Screening Level | | | | |
| Organic Acids | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 78 J | 250 U | 180 J | 390 |
| | | | | | | 250 U |

| Sample Location: | G6-01 | G6-04 | G6-06 | H2U-02 | H5-09 | |
|----------------------|------------|-----------------|------------|------------|------------|--------|
| Sample ID: | G6-01-0323 | G6-04-0323 | G6-06-0323 | H2U-2-0323 | H5-09-0323 | |
| Sample Date: | 3/15/2023 | 3/15/2023 | 3/15/2023 | 3/17/2023 | 3/17/2023 | |
| Parameters | Units | Screening Level | | | | |
| Organic Acids | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 2200 | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 480 | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 4900 | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 200 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 250 U | 110 J | 250 U | 140 J |
| | | | | | | 120 J+ |

Notes:

- µg/L - Micrograms per liter
- J - Estimated concentration
- J+ - Estimated concentration; result may be biased high
- U - Not detected at the associated reporting limit
- 390 - Concentration exceeds Screening Level

**Analytical Results Summary
Quarterly Group B Bedrock Piezometer Sampling
Second Quarter 2023
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-7-09-0623 | AGW-1M7-0623 | AGW-1M9-0623 | AGW-1U6-0623 | B2L-11-0623 |
| Sample Date: | | | 6/14/2023 | 5/31/2023 | 5/31/2023 | 5/31/2023 | 6/13/2023 |
| Parameters | Units | Screening Level | | | | | |
| Organic Acids | | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 250 U | 79 J | 110 J | 80 J | 160 J |

| Sample Location: | | | C3-07 | C3-09 | D1U-04 | D1U-05 | F2M-09 |
|----------------------|-------|-----------------|------------|------------|-------------|-------------|-------------|
| Sample ID: | | | C3-07-0623 | C3-09-0623 | D1U-04-0623 | D1U-05-0623 | F2M-09-0623 |
| Sample Date: | | | 6/13/2023 | 6/13/2023 | 6/13/2023 | 6/13/2023 | 6/5/2023 |
| Parameters | Units | Screening Level | | | | | |
| Organic Acids | | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 250 U | 250 U | 35 J | 65 J | 250 U |

| Sample Location: | | | F2U-02 | F2U-04 | F2U-04 | G1U-01 | G6-01 |
|----------------------|-------|-----------------|------------|------------|------------|------------|------------|
| Sample ID: | | | F2U-2-0623 | F2U-4-0623 | W7-10-0623 | G1U-1-0623 | G6-01-0623 |
| Sample Date: | | | 6/1/2023 | 6/1/2023 | 6/1/2023 | 6/1/2023 | 6/5/2023 |
| Parameters | Units | Screening Level | | | | | |
| Organic Acids | | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U |
| Chlorendic acid | ug/L | 50 | 150 J | 370 | 370 | 250 U | 250 U |

| Sample Location: | | | G6-04 | G6-06 | H2U-02 | H5-09 |
|----------------------|-------|-----------------|------------|------------|-------------|------------|
| Sample ID: | | | G6-04-0623 | G6-06-0623 | H2U-02-0623 | H5-09-0623 |
| Sample Date: | | | 6/5/2023 | 6/5/2023 | 6/14/2023 | 6/5/2023 |
| Parameters | Units | Screening Level | | | | |
| Organic Acids | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 3000 | 690 | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 660 | 160 | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 6600 | 1700 | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 200 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 130 J | 36 J | 130 J | 97 J |

Notes:

Insufficient groundwater volume present to sample D1M-09.

- µg/L - Micrograms per liter
- J - Estimated concentration
- U - Not detected at the associated reporting limit
- 370 - Concentration exceeds Screening Level

**Analytical Results Summary
Quarterly Group B Bedrock Piezometer Sampling
Third Quarter 2023
Hyde Park Landfill Site
Town of Niagara, New York**

| Sample Location: | | | ABP-7-09 | AGW-1M-07 | AGW-1M-07 | AGW-1M-09 | AGW-1U-06 |
|----------------------|-------|-----------------|--------------|---------------|--------------------------|---------------|---------------|
| Sample ID: | | | ABP-7-9-0823 | AGW-1M-7-0823 | W7-10-0823 | AGW-1M-9-0823 | AGW-1U-6-0823 |
| Sample Date: | | | 8/21/2023 | 8/23/2023 | 8/23/2023 (Duplicate) | 8/23/2023 | 8/23/2023 |
| Parameters | Units | Screening Level | | | | | |
| Organic Acids | | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 250 U | 83 J | 83 J | 120 J | 91 J |

| Sample Location: | | | B2L-11 | C3-07 | C3-09 | D1U-04 | D1U-05 |
|----------------------|-------|-----------------|-------------|-----------|-----------|------------|------------|
| Sample ID: | | | B2L-11-0823 | C3-7-0823 | C3-9-0823 | D1U-4-0823 | D1U-5-0823 |
| Sample Date: | | | 8/22/2023 | 8/21/2023 | 8/21/2023 | 8/22/2023 | 8/22/2023 |
| Parameters | Units | Screening Level | | | | | |
| Organic Acids | | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 180 J | 250 U | 250 U | 250 U | 73 J |

| Sample Location: | | | F2M-09 | F2U-02 | F2U-04 | G1U-01 | G6-01 |
|----------------------|-------|-----------------|------------|------------|------------|-----------|-----------|
| Sample ID: | | | F2M-9-0823 | F2U-2-0823 | F2U-4-0823 | G1U-0823 | G6-1-0823 |
| Sample Date: | | | 8/22/2023 | 8/22/2023 | 8/22/2023 | 8/21/2023 | 8/21/2023 |
| Parameters | Units | Screening Level | | | | | |
| Organic Acids | | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 250 U | 160 J | 330 | 250 U | 250 U |

| Sample Location: | | | G6-04 | G6-06 | H2U-02 | H5-09 |
|----------------------|-------|-----------------|-----------|-----------|------------|-----------|
| Sample ID: | | | G6-4-0823 | G6-6-0823 | H2U-2-0823 | H5-9-0823 |
| Sample Date: | | | 8/21/2023 | 8/21/2023 | 8/24/2023 | 8/24/2023 |
| Parameters | Units | Screening Level | | | | |
| Organic Acids | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 3100 | 510 | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 690 | 130 | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 7100 | 1400 | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 200 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 140 J | 250 U | 160 J | 96 J |

Notes:

Insufficient groundwater volume present to sample D1M-09.

- ug/L - Micrograms per liter
- J - Estimated concentration
- U - Not detected at the associated reporting limit
- 330 - Concentration exceeds Screening Level

**Analytical Results Summary
Quarterly Group B Bedrock Piezometer Sampling
Fourth Quarter 2023
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-7-9-1123 | AGW-1M-7-1123 | AGW-1M-9-1123 | AGW-1U-6-1123 | B2L-11-1123 |
| Sample Date: | | | 11/9/2023 | 11/3/2023 | 11/3/2023 | 11/3/2023 | 11/6/2023 |
| Parameters | Units | Screening Level | | | | | |
| Organic Acids | | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 250 U | 100 J | 120 J | 140 J | 190 J |

| Sample Location: | | | C3-07 | C3-09 | D1U-04 | D1U-05 | F2M-09 |
|----------------------|-------|-----------------|-----------|-----------|------------|------------|------------|
| Sample ID: | | | C3-7-1123 | C3-9-1123 | D1U-4-1123 | D1U-5-1123 | F2M-9-1123 |
| Sample Date: | | | 11/7/2023 | 11/7/2023 | 11/16/2023 | 11/16/2023 | 11/13/2023 |
| Parameters | Units | Screening Level | | | | | |
| Organic Acids | | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 250 U | 250 U | 250 U | 180 J | 250 U |

| Sample Location: | | | F2U-02 | F2U-04 | G1U-01 | G6-01 | G6-04 |
|----------------------|-------|-----------------|-------------|-------------|------------|------------|------------|
| Sample ID: | | | F2U-02-1123 | F2U-04-1123 | G1U-1-1123 | G6-1-1123 | G6-4-1123 |
| Sample Date: | | | 11/14/2023 | 11/14/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 |
| Parameters | Units | Screening Level | | | | | |
| Organic Acids | | | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 1300 |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 320 |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 30 U | 30 U | 30 U | 30 U | 3100 |
| Benzoic acid | ug/L | 150,000 | 100 U | 100 U | 100 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 180 J | 400 | 250 U | 250 U | 74 J |

| Sample Location: | | | G6-06 | H2U-02 | H5-09 |
|----------------------|-------|-----------------|------------|------------|-----------|
| Sample ID: | | | G6-6-1123 | H2U-2-1123 | H5-9-1123 |
| Sample Date: | | | 11/17/2023 | 11/6/2023 | 11/7/2023 |
| Parameters | Units | Screening Level | | | |
| Organic Acids | | | | | |
| 2-Chlorobenzoic acid | ug/L | 7,300 | 2200 | 30 U | 30 U |
| 3-Chlorobenzoic acid | ug/L | 7,300 | 590 | 30 U | 30 U |
| 4-Chlorobenzoic acid | ug/L | 7,300 | 5600 | 30 U | 30 U |
| Benzoic acid | ug/L | 150,000 | 200 U | 100 U | 100 U |
| Chlorendic acid | ug/L | 50 | 130 J | 150 J | 100 J |

Notes:
 Insufficient groundwater volume present to sample D1M-09.
 ug/L - Micrograms per liter
 J - Estimated concentration
 U - Not detected at the associated reporting limit
 400 - Concentration exceeds Screening Level

Table 3.8
Analytical Results Summary
Fifth Quarter Group A Bedrock Piezometer Sampling
2023
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 | AGW-1U-05 | AGW-1U-06 | B2L-11 | C3-07 | C3-09 | D1L-11 | D1U-04 | D1U-05 | D2M-09 | D2U-04 | D2U-04 | D2U-05 | E6-04 | |
|---|-------|--------------|--------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|-------------|-----------|-----------|-------------|------------|------------|------------|------------|------------|------------|------------|---------|
| Sample ID: | | ABP-1-9-1123 | ABP-7-9-1123 | AFW-1L-11-1123 | AFW-2U-04-1123 | AFW-2U-05-1123 | AGW-1M-7-1123 | AGW-1M-9-1123 | AGW-1U-5-1123 | AGW-1U-6-1123 | B2L-11-1123 | C3-7-1123 | C3-9-1123 | D1L-11-1123 | D1U-4-1123 | D1U-5-1123 | D2M-9-1123 | D2U-4-1123 | Z7-10-1123 | D2U-5-1123 | E6-4-1123 | |
| Sample Date: | | 11/9/2023 | 11/9/2023 | 11/14/2023 | 11/14/2023 | 11/14/2023 | 11/3/2023 | 11/3/2023 | 11/3/2023 | 11/3/2023 | 11/6/2023 | 11/7/2023 | 11/7/2023 | 11/16/2023 | 11/16/2023 | 11/16/2023 | 11/16/2023 | 11/16/2023 | 11/16/2023 | 11/16/2023 | 11/17/2023 | |
| Parameters | Units | Screening | | | | | | | | | | | | | | | | | | | | |
| Semi-volatile Organic Compounds (cont'd) | | | | | | | | | | | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | µg/L | 310 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| bis(2-Chloroethoxy)methane | µg/L | 5 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| bis(2-Ethylhexyl)phthalate (DEHP) | µg/L | 6 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 110 | |
| Butyl benzylphthalate (BBP) | µg/L | | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Chrysene | µg/L | 9.2 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Dibenz(a,h)anthracene | µg/L | 0.0092 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Diethyl phthalate | µg/L | 29000 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Dimethyl phthalate | µg/L | 370000 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 10 U | 10 U | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Di-n-butylphthalate (DBP) | µg/L | 3700 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Di-n-octyl phthalate (DnOP) | µg/L | 1500 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Fluoranthene | µg/L | 1500 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Fluorene | µg/L | 240 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Hexachlorobenzene | µg/L | 1 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Hexachlorobutadiene | µg/L | 0.86 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Hexachlorocyclopentadiene | µg/L | 50 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Hexachloroethane | µg/L | 4.8 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Indeno(1,2,3-cd)pyrene | µg/L | 0.092 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Isophorone | µg/L | 70 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Naphthalene | µg/L | 6.5 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Octachlorocyclopentene | µg/L | | 4.6 U | 4.4 U | 4.5 U | 4.5 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 4.6 U | 4.6 U | 4.6 U | 4.6 U | 4.6 U | 4.6 U | 4.6 U | 4.6 U | 4.6 U | 4.5 U | |
| Pentachlorophenol | µg/L | 1 | 46 U | 44 U | 45 U | 45 U | 50 U | 50 U | 50 U | 50 U | 50 UJ | 46 U | 46 U | 46 U | 46 U | 46 U | 46 U | 46 U | 46 U | 46 U | 46 U | |
| Phenanthrene | µg/L | 310 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Phenol | µg/L | 11000 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.7 | 9.3 U | 9.1 U | |
| Pyrene | µg/L | 180 | 9.3 U | 8.8 U | 9.1 U | 9.1 U | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | |
| Organic Acids | | | | | | | | | | | | | | | | | | | | | | |
| 2-Chlorobenzoic acid | µg/L | 7300 | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 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 | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | |
| 4-Chlorobenzoic acid | µg/L | 7300 | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | |
| Benzoic acid | µg/L | 150000 | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 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 | 100 J | 120 J | 250 U | 140 J | 190 J | 250 U | 250 U | 250 U | 250 U | 180 J | 150 J | 47 J | 52 J | 170 J | 250 U | |
| General Chemistry | | | | | | | | | | | | | | | | | | | | | | |
| Sulfate | µg/L | | 1530000 | 241000 | 151000 | 68100 | 122000 | 1430000 | 1530000 | 204000 | 525000 | 1590000 | 306000 | 164000 | 939000 | 99200 | 168000 | 469000 | 134000 | 131000 | 341000 | 1320000 |

Notes:
 Insufficient groundwater volume present to sample D1M-09.
 U - Not detected at the associated reporting limit
 UJ - Not detected; associated reporting limit is estimated
 J - Estimated concentration
 J+ - Estimated concentration; result may be biased high
 J- - Estimated concentration; result may be biased low
 12 - Value exceeds associated screening level

Table 3.8
Analytical Results Summary
Fifth Quarter Group A Bedrock Piezometer Sampling
2023
Hyde Park Landfill Site
Town of Niagara, New York

| Sample Location: | E6-05 | E6-06 | E6-09 | E6-11 | F2L-11 | F2L-11 | F2M-09 | F2U-02 | F2U-04 | F6-04 | F6-06 | F6-11 | G1L-11 | G1M-06 | G1U-01 | G6-01 | G6-02 | G6-04 | G6-05 | G6-06 | G6-07 | G6-11 | H2M-06 | H2M-09 | H2U-01 | |
|---|------------|------------|------------|------------|-------------|---------------------------|------------|-------------|-------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------|
| Sample ID: | E6-5-1123 | E6-6-1123 | E6-9-1123 | E6-11-1123 | F2L-11-1123 | Y7-10-1123 | F2M-9-1123 | F2U-02-1123 | F2U-04-1123 | F6-4-1123 | F6-6-1123 | F6-11-1123 | G1L-11-1123 | G1M-6-1123 | G1U-1-1123 | G6-1-1123 | G6-2-1123 | G6-4-1123 | G6-5-1123 | G6-6-1123 | G6-7-1123 | G6-11-1123 | H2M-6-1123 | H2M-9-1123 | H2U-1-1123 | |
| Sample Date: | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/13/2023 | 11/13/2023 (Duplicate) | 11/13/2023 | 11/14/2023 | 11/14/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/20/2023 | 11/17/2023 | 11/17/2023 | 11/17/2023 | 11/6/2023 | 11/6/2023 | 11/6/2023 | |
| Parameters | Units | | | | | | | | | | | | | | | | | | | | | | | | | |
| Semi-volatile Organic Compounds (cont'd) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| bis(2-Chloroethoxy)methane | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 U | |
| bis(2-Ethylhexyl)phthalate (DEHP) | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Butyl benzylphthalate (BBP) | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Chrysene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Dibenz(a,h)anthracene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Diethyl phthalate | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Dimethyl phthalate | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Di-n-butylphthalate (DBP) | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Di-n-octyl phthalate (DnOP) | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Fluoranthene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Fluorene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Hexachlorobenzene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Hexachlorobutadiene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Hexachlorocyclopentadiene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 U | |
| Hexachloroethane | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Indeno(1,2,3-cd)pyrene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Isophorone | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 U | |
| Naphthalene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 3.1 J | 9.6 U | 10 UJ | |
| Octachlorocyclopentene | µg/L | 4.5 U | 4.5 U | 5.0 U | 4.5 U | 4.5 U | 50 U | 4.5 U | 4.6 U | 4.5 U | 4.5 U | 4.5 U | 4.6 U | 4.6 U | 4.6 U | 4.5 U | 4.6 U | 4.8 U | 4.8 U | 5.0 U | |
| Pentachlorophenol | µg/L | 45 U | 45 U | 50 U | 45 U | 45 U | 500 U | 45 U | 46 U | 45 U | 45 U | 45 U | 46 U | 46 U | 46 U | 45 U | 46 U | 48 U | 48 U | 50 UJ | |
| Phenanthrene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Phenol | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 U | |
| Pyrene | µg/L | 9.1 U | 9.1 U | 10 U | 9.1 U | 9.1 U | 100 U | 9.1 U | 9.1 U | 9.3 U | 9.1 U | 9.1 U | 9.3 U | 9.3 U | 9.3 U | 9.1 U | 9.3 U | 9.6 U | 9.6 U | 10 UJ | |
| Organic Acids | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Chlorobenzoic acid | µg/L | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 1300 | 960 | 2200 | 30 U | 30 U | 430 | 22 J | 30 U |
| 3-Chlorobenzoic acid | µg/L | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 320 | 250 | 590 | 30 U | 30 U | 64 | 30 U | 30 U |
| 4-Chlorobenzoic acid | µg/L | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 3100 | 2800 | 5600 | 30 U | 30 U | 58 | 30 U | 30 U |
| Benzoic acid | µg/L | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 200 U | 100 U |
| Chlorendic acid | µg/L | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 180 J | 400 | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 74 J | 54 J | 130 J | 250 U | 250 U | 250 U | 250 U | |
| General Chemistry | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sulfate | µg/L | 1390000 | 1340000 | 903000 | 1370000 | 32500 | 33100 | 1460000 | 94800 | 155000 | 432000 | 1410000 | 1660000 | 1160000 | 793000 | 144000 | 92500 | 88000 | 200000 | 908000 | 1080000 | 1220000 | 1310000 | 1580000 | 1600000 | 148000 |

Notes:
 Insufficient groundwater volume present to sample D1M-09.
 U - Not detected at the associated reporting limit
 UJ - Not detected; associated reporting limit is estimated
 J - Estimated concentration
 J+ - Estimated concentration; result may be biased high
 J- - Estimated concentration; result may be biased low
 12 - Value exceeds associated screening level

Table 3.8
Analytical Results Summary
Fifth Quarter Group A Bedrock Piezometer Sampling
2023
Hyde Park Landfill Site
Town of Niagara, New York

| Sample Location: | H2U-02 | H5-02 | H5-04 | H5-05 | H5-05 | H5-07 | H5-09 | I1-01 | I1-02 | I1-04 | I1-07 | J6-02 | J6-04 | J6-05 | J6-07 | J6-11 |
|--|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|
| Sample ID: | H2U-2-1123 | H5-2-1123 | H5-4-1123 | H5-5-1123 | X7-10-1123 | H5-7-1123 | H5-9-1123 | I1-1-1123 | I1-2-1123 | I1-4-1123 | I1-7-1123 | J-6-2-1123 | J-6-4-1123 | J-6-5-1123 | J-6-7-1123 | J-6-11-1123 |
| Sample Date: | 11/6/2023 | 11/7/2023 | 11/7/2023 | 11/7/2023 | 11/7/2023 | 11/7/2023 | 11/7/2023 | 11/9/2023 | 11/9/2023 | 11/9/2023 | 11/9/2023 | 11/3/2023 | 11/3/2023 | 11/3/2023 | 11/3/2023 | 11/3/2023 |
| Parameters | Units | | | | | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | µg/L | 1.9 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.37 J | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 3.1 | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 4.8 | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloropropane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,3-Dichlorobenzene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 8.7 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 4.7 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 2-Chlorotoluene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.47 J | 1.0 U | 65 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.0 | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 4-Chlorotoluene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.54 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Benzene | µg/L | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.49 J | 41 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 110 |
| Bromodichloromethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromoforn | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromomethane (Methyl bromide) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 | 0.63 J- | 1.0 UJ | 1.0 UJ | 1.0 UJ | 2.1 J- | 1.6 J- | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 0.51 J | 13 |
| Carbon tetrachloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 | 0.28 J | 1.0 U | 61 | 1.0 U | 1.0 U | 0.95 J | 1.0 U | 1.0 U | 1.0 U | 4.3 | 1.0 U |
| Chloroethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloromethane (Methyl chloride) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.51 J | 1.0 U |
| cis-1,3-Dichloropropene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Dichlorodifluoromethane (CFC-12) | µg/L | 1.0 U | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 UJ | 1.0 U |
| Ethylbenzene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.8 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.8 |
| m&p-Xylenes | µg/L | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 10 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.5 |
| Methylene chloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 | 7.1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.27 J | 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 | 23 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.53 J | 1.0 U |
| o-Xylene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 4.9 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 7.1 |
| p-Monochlorobenzotrifluoride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 24 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.88 J | 1.0 U |
| Styrene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.25 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.31 J |
| Tetrachloroethene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 | 19 | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichlorofluoromethane (CFC-11) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl acetate | µg/L | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Vinyl chloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Xylenes (total) | µg/L | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 15 | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 9.5 |
| Semi-volatile Organic Compounds | | | | | | | | | | | | | | | | |
| 2,4,6-Trichlorophenol | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| 2,4-Dichlorophenol | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 2.2 J | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| 2,4-Dimethylphenol | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| 2,4-Dinitrophenol | µg/L | 50 UJ | 46 U | 46 U | 46 U | 46 U | 46 U | 46 U | 45 U | 44 U | 45 U | 46 U | 500 U | 48 U | 48 U | 48 U |
| 2-Chloronaphthalene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| 2-Chlorophenol | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| 2-Nitrophenol | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| 4,6-Dinitro-2-methylphenol | µg/L | 50 UJ | 46 U | 46 U | 46 U | 46 U | 46 U | 46 U | 45 U | 44 U | 45 U | 46 U | 500 U | 48 U | 48 U | 48 U |
| 4-Chloro-3-methylphenol | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| 4-Nitrophenol | µg/L | 50 U | 46 U | 46 U | 46 U | 46 U | 46 U | 46 U | 45 U | 44 U | 45 U | 46 U | 500 U | 48 U | 48 U | 48 U |
| Acenaphthene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| Acenaphthylene | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| Anthracene | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| Benzo(a)anthracene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| Benzo(a)pyrene | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |
| Benzo(b)fluoranthene | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U |

Table 3.8
Analytical Results Summary
Fifth Quarter Group A Bedrock Piezometer Sampling
2023
Hyde Park Landfill Site
Town of Niagara, New York

| Sample Location: | H2U-02 | H5-02 | H5-04 | H5-05 | H5-05 | H5-07 | H5-09 | I1-01 | I1-02 | I1-04 | I1-07 | J6-02 | J6-04 | J6-05 | J6-07 | J6-11 | |
|---|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-------------|---------|
| Sample ID: | H2U-2-1123 | H5-2-1123 | H5-4-1123 | H5-5-1123 | X7-10-1123 | H5-7-1123 | H5-9-1123 | I1-1-1123 | I1-2-1123 | I1-4-1123 | I1-7-1123 | J-6-2-1123 | J-6-4-1123 | J-6-5-1123 | J-6-7-1123 | J-6-11-1123 | |
| Sample Date: | 11/6/2023 | 11/7/2023 | 11/7/2023 | 11/7/2023 | 11/7/2023 | 11/7/2023 | 11/7/2023 | 11/9/2023 | 11/9/2023 | 11/9/2023 | 11/9/2023 | 11/3/2023 | 11/3/2023 | 11/3/2023 | 11/3/2023 | 11/3/2023 | |
| Parameters | Units | | | | | | | | | | | | | | | | |
| Semi-volatile Organic Compounds (cont'd) | | | | | | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| bis(2-Chloroethoxy)methane | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| bis(2-Ethylhexyl)phthalate (DEHP) | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Butyl benzylphthalate (BBP) | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Chrysene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Dibenz(a,h)anthracene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Diethyl phthalate | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Dimethyl phthalate | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Di-n-butylphthalate (DBP) | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Di-n-octyl phthalate (DnOP) | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Fluoranthene | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Fluorene | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Hexachlorobenzene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Hexachlorobutadiene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Hexachlorocyclopentadiene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Hexachloroethane | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Indeno(1,2,3-cd)pyrene | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Isophorone | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Naphthalene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Octachlorocyclopentene | µg/L | 5.0 U | 4.6 U | 4.6 U | 4.6 U | 4.6 U | 4.6 U | 4.5 U | 4.4 U | 4.5 U | 4.6 U | 50 U | 4.8 U | 4.8 U | 4.8 U | 4.8 U | |
| Pentachlorophenol | µg/L | 50 UJ | 46 U | 46 U | 46 U | 46 U | 46 U | 45 U | 44 U | 45 U | 46 U | 500 U | 48 U | 48 U | 48 U | 48 U | |
| Phenanthrene | µg/L | 10 UJ | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Phenol | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Pyrene | µg/L | 10 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 9.3 U | 8.9 U | 8.8 U | 8.9 U | 9.3 U | 100 U | 9.6 U | 9.6 U | 9.6 U | 9.6 U | |
| Organic Acids | | | | | | | | | | | | | | | | | |
| 2-Chlorobenzoic acid | µg/L | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | |
| 3-Chlorobenzoic acid | µg/L | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | |
| 4-Chlorobenzoic acid | µg/L | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | 30 U | |
| Benzoic acid | µg/L | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | 100 U | |
| Chlorendic acid | µg/L | 150 J | 250 U | 250 U | 250 U | 250 U | 250 U | 100 J | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | 250 U | |
| General Chemistry | | | | | | | | | | | | | | | | | |
| Sulfate | µg/L | 232000 | 92000 | 960000 | 1190000 | 1210000 | 1650000 | 1360000 | 249000 | 254000 | 442000 | 1170000 | 142000 | 210000 | 231000 | 1450000 | 2200000 |

Notes:

- Insufficient groundwater volume present to sample D1M-09.
- U - Not detected at the associated reporting limit
- UJ - Not detected; associated reporting limit is estimated
- J - Estimated concentration
- J+ - Estimated concentration; result may be biased high
- J- - Estimated concentration; result may be biased low
- 12 - Value exceeds associated screening level

Table 3.9

**2023 Analytical Results Summary
Annual Bedrock Open Catch Basin
Hyde Park Landfill Site
Town of Niagara, New York**

| | |
|-------------------------|--------------------------|
| Sample Location: | BR-OpenCatchBasin |
| Sample ID: | HPOPENCB-2023 |
| Sample Date: | 10/26/2023 |

| Parameters | Units | |
|----------------------|--------------|-------|
| Organic Acids | | |
| 2-Chlorobenzoic acid | µg/L | 30 U |
| 3-Chlorobenzoic acid | µg/L | 30 U |
| 4-Chlorobenzoic acid | µg/L | 30 U |
| Benzoic acid | µg/L | 100 U |
| Chlorendic acid | µg/L | 250 U |

Notes:

U - Not detected at the associated reporting limit

**2023 Analytical Results Summary
Annual AFW Composite
Hyde Park Landfill Site
Town of Niagara, New York**

| Parameters | Units | Reporting Level | Sample Location: |
|--|-------|-----------------|------------------|
| | | | AFWCOMPOSITE |
| | | | Sample ID: |
| | | | AFW-C-1223 |
| | | | Sample Date: |
| | | | 11/29/2023 |
| Polychlorinated Biphenyls (PCBs) | | | |
| Pentachlorobiphenyl | µg/L | 1 | 0.008890 J |
| Tetrachlorobiphenyl | µg/L | 1 | 0.010900 J |
| Trichlorobiphenyl | µg/L | 1 | 0.007710 J |
| Pesticides | | | |
| alpha-BHC | µg/L | 1 | 0.050 U |
| beta-BHC | µg/L | 1 | 0.050 U |
| delta-BHC | µg/L | 1 | 0.050 U |
| gamma-Chlordane | µg/L | 1 | 0.050 U |
| Mirex | µg/L | 1 | 0.050 U |
| Dioxin Furans | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) | pg/L | 500 | 47.8 |

Notes:

- BHC - Benzene Hexachloride
- pg/L - Picograms per liter
- µg/L - Micrograms per liter
- - Not analyzed
- J - Estimated concentration
- U - Not detected at the associated reporting limit

**2023 Quarterly Hydraulic Gradient Summary
Community Monitoring Program
Hyde Park Landfill Site
Town of Niagara, New York**

| | | 3/9/2023 | | | 6/8/2023 | | | 9/14/2023 | | | 12/14/2023 | | |
|--------------------|----------|-------------------------|-------------------------|-----------|-------------------------|-------------------------|-----------|-------------------------|-------------------------|-----------|-------------------------|-------------------------|-----------|
| Gradient Pairing | | Overburden | Bedrock | Gradient |
| Overburden Bedrock | | Elevation (ft. AMSL) | Elevation (ft. AMSL) | (ft./ft.) |
| CMW-1OB | CMW-1SH | 574.09 | 564.62 | 0.861 | 571.7 | 563.25 | 0.768 | 573.62 | 562.90 | 0.975 | 574.28 | 562.98 | 1.027 |
| CMW-2OB | CMW-2SH | 590.71 | 572.29 | 1.288 | 585.48 | 570.53 | 1.045 | 585.43 | 570.23 | 1.063 | 590.01 | 570.21 | 1.385 |
| CMW-3OB | CMW-3SH | 576.99 | 555.59 | 1.529 | 574.81 | 554.07 | 1.481 | 573.91 | 554.02 | 1.421 | 571.99 | 554.20 | 1.271 |
| CMW-4OB | CMW-4SH | 574.28 ⁽²⁾ | 568.04 | 0.529 | 573.73 | 566.51 | 0.612 | 572.82 | 566.55 | 0.531 | 573.80 | 567.00 | 0.576 |
| CMW-5OB | CMW-5SH | 583.43 ⁽²⁾ | 579.40 | 0.255 | 583.33 | 575.33 | 0.506 | 582.98 | 576.89 | 0.385 | 583.43 ⁽²⁾ | 578.99 | 0.281 |
| CMW-6OB | CMW-6SH | 571.86 | 562.53 | 0.972 | 571.8 | 561.88 | 1.033 | 571.84 | 561.78 | 1.048 | 571.73 | 561.95 | 1.019 |
| CMW-7OB | CMW-7SH | 606.53 ⁽¹⁾ | 601.70 | 0.338 | 605.76 | 598.26 | 0.524 | 606.55 ⁽¹⁾ | 597.93 | 0.603 | 606.24 ⁽¹⁾ | 597.97 | 0.578 |
| CMW-8OB | CMW-8SH | 613.58 | 613.11 | 0.045 | 612.7 | 607.73 | 0.478 | 612.81 | 606.32 | 0.624 | 612.95 | 607.10 | 0.563 |
| CMW-9OB | CMW-9SH | 569.26 ⁽¹⁾ | 560.56 | 1.673 | 569.06 | 559.73 | 1.794 | 569.18 ⁽¹⁾ | 559.38 | 1.885 | 569.21 ⁽¹⁾ | 560.00 | 1.771 |
| CMW-11OB | CMW-11SH | 570.92 | 565.36 | 0.579 | 568.99 | 564.79 | 0.438 | 568.93 ⁽¹⁾ | 564.76 | 0.434 | 570.75 | 565.18 | 0.580 |
| CMW-12OB | CMW-12SH | 591.18 | 572.27 | 1.006 | 580.59 | 572.82 | 0.413 | 573.57 | 569.99 | 0.190 | 573.37 | 570.05 | 0.177 |

Notes:

ft. AMSL - Feet Above Mean Sea Level

ft./ft. - Feet per foot

-⁽¹⁾ - Well recorded as dry during this event. Bottom of well depth (sounded during monitoring event) was used to calculate gradient.

-⁽²⁾ - Well recorded as surcharged during this event. Reference elevation was used to calculate gradient.

**2023 Community Monitoring Well Soil Vapor Monitoring
Community Monitoring Program
Hyde Park Landfill Site
Town of Niagara, New York**

**September 13, 2023
65°F**

| Well I.D. | Time Intervals | Sampling Time (hhmm) | VOC Readings (ppmv) |
|------------------|-----------------------|---------------------------------|--------------------------------|
| SVP-1 | Background | 1222 | 0 |
| | At 1 minute | 1223 | 0 |
| | At 2 minutes | 1224 | 0 |
| | At 3 minutes | 1225 | 0 |
| | At 4 minutes | 1226 | 0 |
| | At 5 minutes | 1217 | 0 |
| | At 6 minutes | 1218 | 0 |
| | At 7 minutes | 1229 | 0 |
| | At 8 minutes | 1230 | 0 |
| | At 9 minutes | 1231 | 0 |
| | At 10 minutes | 1232 | 0 |
| SVP-2 | Background | 1240 | 0 |
| | At 1 minute | 1241 | 0 |
| | At 2 minutes | 1242 | 0 |
| | At 3 minutes | 1243 | 0 |
| | At 4 minutes | 1244 | 0 |
| | At 5 minutes | 1245 | 0 |
| | At 6 minutes | 1246 | 0 |
| | At 7 minutes | 1247 | 0 |
| | At 8 minutes | 1248 | 0 |
| | At 9 minutes | 1249 | 0 |
| | At 10 minutes | 1250 | 0 |
| SVP-3 | Background | 1251 | 0 |
| | At 1 minute | 1252 | 0 |
| | At 2 minutes | 1253 | 0 |
| | At 3 minutes | 1254 | 0 |
| | At 4 minutes | 1255 | 0 |
| | At 5 minutes | 1256 | 0 |
| | At 6 minutes | 1257 | 0 |
| | At 7 minutes | 1258 | 0 |
| | At 8 minutes | 1259 | 0 |
| | At 9 minutes | 1300 | 0 |
| | At 10 minutes | 1301 | 0 |
| SVP-4 | Background | 1301 | 0 |
| | At 1 minute | 1302 | 0 |
| | At 2 minutes | 1303 | 0 |
| | At 3 minutes | 1304 | 0 |
| | At 4 minutes | 1305 | 0 |
| | At 5 minutes | 1306 | 0 |
| | At 6 minutes | 1307 | 0 |
| | At 7 minutes | 1308 | 0 |
| | At 8 minutes | 1309 | 0 |
| | At 9 minutes | 1310 | 0 |
| | At 10 minutes | 1311 | 0 |

**2023 Community Monitoring Well Soil Vapor Monitoring
Community Monitoring Program
Hyde Park Landfill Site
Town of Niagara, New York**

**September 13, 2023
65°F**

| Well I.D. | Time Intervals | Sampling Time (hhmm) | VOC Readings (ppmv) |
|------------------|-----------------------|---------------------------------|--------------------------------|
| CMW-7OB | Background | 1321 | 0 |
| | At 1 minute | 1322 | 0 |
| | At 2 minutes | 1323 | 0 |
| | At 3 minutes | 1324 | 0 |
| | At 4 minutes | 1325 | 0 |
| | At 5 minutes | 1326 | 0 |
| | At 6 minutes | 1327 | 0 |
| | At 7 minutes | 1328 | 0 |
| | At 8 minutes | 1329 | 0 |
| | At 9 minutes | 1330 | 0 |
| | At 10 minutes | 1331 | 0 |
| CMW-8OB | Background | 1351 | 0 |
| | At 1 minute | 1352 | 0 |
| | At 2 minutes | 1353 | 0 |
| | At 3 minutes | 1354 | 0 |
| | At 4 minutes | 1355 | 0 |
| | At 5 minutes | 1356 | 0 |
| | At 6 minutes | 1357 | 0 |
| | At 7 minutes | 1358 | 0 |
| | At 8 minutes | 1359 | 0 |
| | At 9 minutes | 1400 | 0 |
| | At 10 minutes | 1401 | 0 |

Notes:

ppmv - Parts per million by volume
VOC - Volatile Organic Compound
°F - Degrees Fahrenheit

**2023 NAPL Decanter Volume Monitoring
Hyde Park Landfill Site
Town of Niagara, New York**

| | Decanter #1 | Decanter #2 | Decanter #3 |
|---------------------------------|-------------|-------------|-------------|
| First Quarter 2023 | | | |
| March 10, 2023 | | | |
| Thickness (feet) | 18.6 | 6.3 | 4.3 |
| Level (%) | 38 | 34 | 18 |
| Volume ⁽¹⁾ (gallons) | 4,256 | 3,808 | 2,016 |
| Second Quarter 2023 | | | |
| June 9, 2023 | | | |
| Thickness (feet) | 20.0 | 6.3 | 4.1 |
| Level (%) | 48 | 29 | 32 |
| Volume ⁽¹⁾ (gallons) | 5,376 | 3,248 | 3,584 |
| Third Quarter 2023 | | | |
| September 15, 2023 | | | |
| Thickness (feet) | 20.6 | 6.7 | 7.1 |
| Level (%) | 47 | 31 | 30 |
| Volume ⁽¹⁾ (gallons) | 5,264 | 3,472 | 3,360 |
| Fourth Quarter 2023 | | | |
| December 13, 2023 | | | |
| Thickness (feet) | 23.2 | 5.0 | 11.2 |
| Level (%) | 56 | 28 | 28 |
| Volume ⁽¹⁾ (gallons) | 6,272 | 3,136 | 3,136 |

Notes:

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

Table 4.2

2023 Weekly Carbon Interstage APL Sampling
Hyde Park Landfill Site
Town of Niagara, New York

| Sample Location: Sample ID: Sample Date: | HP-INTER-D-01 HP 1423 INT-D 1/4/2023 | HP-INTER-D-01 HP 11123 INT-D 1/11/2023 | HP-INTER-D-01 HP 11823 INT-D 1/18/2023 | HP-INTER-D-01 HP 12523 INT-D 1/25/2023 | HP-INTER-D-01 HP 2123 INT-D 2/1/2023 | HP-INTER-D-01 HP 2823 INT-D 2/8/2023 | HP-INTER-D-01 HP 21523 INT-D 2/15/2023 | HP-INTER-D-01 HP 22223 INT-D 2/22/2023 | HP-INTER-D-01 HP 3123 INT-D 3/1/2023 | HP-INTER-D-01 HP 3823 INT-D 3/8/2023 | HP-INTER-D-01 HP 31523 INT-D 3/15/2023 | |
|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Parameters | Units | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.0 U | 1.0 U | 0.26 J | 0.35 J | 1.0 U | 0.34 J | 0.38 J | 1.0 U | 0.46 J | 0.33 J | 0.70 J |
| 1,1,2,2-Tetrachloroethane | µg/L | 0.28 J | 0.37 J | 1.2 | 1.3 | 0.99 J | 2.7 | 3.3 | 0.29 J | 3.0 | 2.7 | 6.9 |
| 1,1,2-Trichloroethane | µg/L | 1.0 U | 1.0 U | 0.30 J | 1.0 U | 1.0 U | 0.42 J | 0.49 J | 1.0 U | 0.52 J | 0.42 J | 1.1 |
| 1,1-Dichloroethane | µg/L | 2.1 | 2.3 | 1.7 | 2.0 | 2.0 | 1.8 | 2.1 | 1.9 | 1.7 | 1.9 | 1.6 |
| 1,1-Dichloroethene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | µg/L | 1.0 U | 1.0 U | 1.0 U | 0.37 J | 1.0 J | 1.0 U | 0.39 J | 1.0 U | 1.0 U | 0.48 J | 1.6 |
| 1,2-Dichlorobenzene | µg/L | 0.24 J | 0.26 J | 0.32 J | 0.33 J | 0.24 J | 0.43 J | 0.53 J | 1.0 U | 0.56 J | 1.0 U | 1.2 |
| 1,2-Dichloroethane | µg/L | 8.1 | 9.7 | 8.2 | 9.5 | 9.8 | 10 | 9.8 | 5.0 | 12 | 8.4 | 10 |
| 1,2-Dichloropropane | µg/L | 0.30 J | 0.42 J | 0.27 J | 0.42 J | 0.42 J | 0.49 J | 0.44 J | 0.42 J | 0.54 J | 0.54 J | 0.61 J |
| 1,3-Dichlorobenzene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.27 J |
| 1,4-Dichlorobenzene | µg/L | 1.0 U | 1.0 U | 0.28 J | 0.25 J | 0.31 J | 0.36 J | 0.38 J | 1.0 U | 0.43 J | 1.0 U | 0.97 J |
| 2-Chlorotoluene | µg/L | 3.9 | 4.1 | 5.0 | 5.7 | 5.9 | 8.1 | 9.3 | 1.0 U | 8.9 | 8.4 | 17 |
| 3-Chlorotoluene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 4-Chlorotoluene | µg/L | 1.2 | 1.2 | 1.7 | 1.9 | 1.8 | 2.8 | 3.1 | 1.0 U | 3.2 | 3.0 | 6.9 |
| Benzene | µg/L | 41 | 42 | 39 | 42 | 46 | 42 | 49 | 13 | 51 | 46 | 48 |
| Bromodichloromethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon disulfide | µg/L | 8.5 | 6.2 | 6.2 | 6.6 | 6.7 | 5.7 | 12 | 4.0 | 7.6 | 1.0 U | 1.6 |
| Carbon tetrachloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chlorobenzene | µg/L | 24 | 24 | 26 | 27 | 27 | 31 | 31 | 1.0 U | 34 | 32 | 39 |
| Chloroethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroform (Trichloromethane) | µg/L | 1.9 | 1.8 | 6.6 | 7.2 | 5.7 | 10 | 13 | 4.0 | 13 | 7.2 | 14 |
| Chloromethane (Methyl chloride) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | µg/L | 0.83 J | 1.3 | 3.7 | 4.4 | 3.1 | 8.7 | 9.4 | 1.6 | 10 | 6.7 | 30 |
| cis-1,3-Dichloropropene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Ethylbenzene | µg/L | 3.4 | 3.4 | 4.2 | 4.5 | 4.5 | 5.8 | 5.9 | 1.0 U | 5.9 | 5.9 | 8.7 |
| m&p-Xylenes | µg/L | 3.3 | 3.2 | 4.1 | 4.5 | 4.1 | 5.6 | 6.2 | 2.0 U | 6.3 | 6.1 | 14 |
| Methylene chloride | µg/L | 1.0 U | 1.0 U | 0.92 J | 1.0 U | 1.0 U | 0.84 J | 0.71 J | 1.0 U | 1.0 U | 1.0 U | 4.4 |
| m-Monochlorobenzotrifluoride | µg/L | 0.49 J | 0.48 J | 0.64 J | 0.70 J | 0.73 J | 0.90 J | 1.0 | 1.0 U | 1.1 | 1.3 | 2.2 |
| o-Monochlorobenzotrifluoride | µg/L | 1.7 | 1.6 | 2.0 | 2.1 | 2.1 | 3.1 | 3.4 | 1.0 U | 3.8 | 3.8 | 6.8 |
| o-Xylene | µg/L | 4.7 | 4.9 | 6.2 | 6.2 | 6.3 | 8.2 | 8.9 | 1.0 U | 9.3 | 9.2 | 14 |
| p-Monochlorobenzotrifluoride | µg/L | 1.4 | 1.4 | 1.8 | 2.3 | 3.6 | 2.6 | 2.9 | 1.0 U | 3.7 | 3.6 | 7.5 |
| Styrene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | µg/L | 1.0 U | 1.0 U | 0.74 J | 0.70 J | 1.0 | 0.88 J | 1.0 | 1.0 U | 0.75 J | 1.1 | 2.6 |
| Toluene | µg/L | 4.0 | 3.8 | 6.7 | 7.3 | 5.0 | 9.1 | 10 | 1.0 U | 11 | 10 | 22 |
| trans-1,2-Dichloroethene | µg/L | 5.6 | 5.6 | 5.4 | 5.8 | 6.4 | 5.6 | 6.0 | 1.0 U | 6.5 | 5.5 | 4.7 |
| trans-1,3-Dichloropropene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | µg/L | 0.83 J | 0.90 J | 2.7 | 3.3 | 2.9 | 5.4 | 5.7 | 1.0 U | 7.1 | 6.5 | 13 |
| Trichlorofluoromethane (CFC-11) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl acetate | µg/L | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Vinyl chloride | µg/L | 15 | 22 | 23 | 24 | 19 | 33 | 35 | 24 | 35 | 20 | 59 |
| Xylenes (total) | µg/L | 8.0 | 8.1 | 10 | 11 | 10 | 14 | 15 | 3.0 U | 16 | 15 | 28 |

Notes:

- J - Estimated concentration.
- U - Not detected at the associated reporting limit.
- UJ - Not detected; associated reporting limit is estimated.
- µg/L - Micrograms per liter

Table 4.2

2023 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 | 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: | HP 32223 INT-D | HP 32923 INT-D | HP 4523 INT-D | HP 41223 INT-D | HP 41823 INT-D | HP 42623 NT-D | HP 5323 INT-D | HP 51023 INT-D | HP 51723 INT-D | HP 52423 INT-D | HP 53123 INT-D | HP 53123 INT-D |
| Sample Date: | 3/22/2023 | 3/29/2023 | 4/5/2023 | 4/12/2023 | 4/18/2023 | 4/26/2023 | 5/3/2023 | 5/10/2023 | 5/17/2023 | 5/24/2023 | 5/31/2023 | 5/31/2023 |
| Parameters | Units | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 0.63 J | 0.67 J | 0.69 J | 0.62 J | 0.65 J | 0.69 J | 0.48 J | 0.44 J | 0.67 J | 0.67 J | 0.71 J |
| 1,1,2,2-Tetrachloroethane | µg/L | 5.7 | 8.1 | 6.6 | 5.7 | 6.8 | 5.5 | 2.8 | 2.4 | 5.2 | 4.1 | 4.3 |
| 1,1,2-Trichloroethane | µg/L | 0.84 J | 0.99 J | 0.83 J | 0.63 J | 0.80 J | 0.77 J | 0.42 J | 0.38 J | 0.88 J | 0.64 J | 0.79 J |
| 1,1-Dichloroethane | µg/L | 1.8 | 1.7 | 1.9 | 1.9 | 2.1 | 2.1 | 2.8 | 2.5 | 2.5 | 3.0 | 3.0 |
| 1,1-Dichloroethene | µg/L | 0.22 J | 0.28 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | µg/L | 2.0 | 1.5 | 0.97 J | 0.79 J | 0.58 J | 0.56 J | 0.34 J | 0.34 J | 0.37 J | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | µg/L | 1.0 | 1.0 | 0.82 J | 0.71 J | 0.76 J | 0.72 J | 0.51 J | 0.52 J | 0.59 J | 0.61 J | 0.74 J |
| 1,2-Dichloroethane | µg/L | 12 | 11 | 12 | 13 | 13 | 12 | 18 | 13 | 14 | 17 | 18 |
| 1,2-Dichloropropane | µg/L | 0.63 J | 0.76 J | 0.72 J | 0.72 J | 0.76 J | 0.84 J | 0.78 J | 0.71 J | 0.99 J | 0.85 J | 0.87 J |
| 1,3-Dichlorobenzene | µg/L | 0.25 J | 0.23 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | µg/L | 0.92 J | 0.84 J | 1.0 U | 0.50 J | 0.73 J | 0.52 J | 0.40 J | 0.33 J | 0.37 J | 0.50 J | 0.34 J |
| 2-Chlorotoluene | µg/L | 17 | 14 | 12 | 11 | 12 | 11 | 9.2 | 8.2 | 10 | 9.8 | 9.0 |
| 3-Chlorotoluene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 4-Chlorotoluene | µg/L | 7.1 | 6.0 | 4.7 | 4.0 | 4.2 | 3.8 | 3.1 | 2.7 | 3.4 | 3.3 | 3.2 |
| Benzene | µg/L | 51 | 63 | 67 | 62 | 74 | 74 | 78 | 76 | 80 | 86 | 92 |
| Bromodichloromethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon disulfide | µg/L | 5.2 | 1.6 | 1.0 U | 5.7 | 4.4 | 3.6 | 4.6 | 3.3 | 3.2 | 4.2 | 3.3 |
| Carbon tetrachloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chlorobenzene | µg/L | 37 | 39 | 39 | 36 | 40 | 39 | 37 | 35 | 38 | 43 | 45 |
| Chloroethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroform (Trichloromethane) | µg/L | 12 | 7.6 | 5.2 | 4.1 | 5.5 | 7.4 | 4.1 | 3.8 | 11 | 12 | 13 |
| Chloromethane (Methyl chloride) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | µg/L | 33 | 36 | 1.0 U | 22 | 25 | 24 | 11 | 8.8 | 15 | 11 | 9.1 |
| cis-1,3-Dichloropropene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Ethylbenzene | µg/L | 8.4 | 8.1 | 7.3 | 6.9 | 7.4 | 7.3 | 6.4 | 5.9 | 7.0 | 7.0 | 6.6 |
| m&p-Xylenes | µg/L | 13 | 11 | 7.9 | 6.4 | 7.0 | 6.7 | 5.5 | 5.1 | 6.3 | 6.7 | 6.8 |
| Methylene chloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| m-Monochlorobenzotrifluoride | µg/L | 2.0 | 2.2 | 1.8 | 1.4 | 1.5 | 1.4 | 1.0 | 1.0 | 1.3 | 1.2 | 1.3 |
| o-Monochlorobenzotrifluoride | µg/L | 6.6 | 6.8 | 5.7 | 4.8 | 5.3 | 4.7 | 3.6 | 3.5 | 4.3 | 4.0 | 3.9 |
| o-Xylene | µg/L | 14 | 13 | 12 | 11 | 12 | 12 | 9.8 | 9.1 | 11 | 11 | 11 |
| p-Monochlorobenzotrifluoride | µg/L | 6.9 | 7.0 | 5.5 | 4.6 | 4.5 | 4.2 | 3.1 | 2.8 | 3.6 | 3.6 | 3.4 |
| Styrene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | µg/L | 1.8 | 1.4 | 1.1 | 1.0 | 0.77 J | 0.59 J | 0.45 J | 0.45 J | 0.45 J | 0.56 J | 0.37 J |
| Toluene | µg/L | 20 | 17 | 12 | 8.9 | 11 | 11 | 6.8 | 6.1 | 9.8 | 8.4 | 8.6 |
| trans-1,2-Dichloroethene | µg/L | 5.0 | 5.3 | 5.8 | 6.4 | 7.1 | 7.5 | 8.9 | 9.2 | 8.7 | 9.5 | 10 |
| trans-1,3-Dichloropropene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | µg/L | 10 | 9.9 | 8.2 | 7.5 | 7.8 | 8.0 | 5.2 | 5.3 | 7.7 | 6.0 | 6.5 |
| Trichlorofluoromethane (CFC-11) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl acetate | µg/L | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Vinyl chloride | µg/L | 61 | 57 | 48 | 48 | 53 | 51 | 29 | 24 | 42 | 36 | 31 |
| Xylenes (total) | µg/L | 27 | 24 | 19 | 17 | 19 | 18 | 15 | 14 | 17 | 17 | 17 |

Notes:
 J - Estimated concentration.
 U - Not detected at the associated reporting limit.
 UJ - Not detected; associated reporting limit is estimated.
 µg/L - Micrograms per liter

Table 4.2

2023 Weekly Carbon Interstage APL Sampling
Hyde Park Landfill Site
Town of Niagara, New York

| Sample Location: Sample ID: Sample Date: | HP-INTER-D-01 HP 6723 INT-D 6/7/2023 | HP-INTER-D-01 HP 61423 INT-D 6/14/2023 | HP-INTER-D-01 HP 62123 INT-D 6/21/2023 | HP-INTER-D-01 HP 62823 INT-D 6/28/2023 | HP-INTER-D-01 HP 7523 INT-D 7/5/2023 | HP-INTER-D-01 HP 71223 INT-D 7/12/2023 | HP-INTER-D-01 HP 71923 INT-D 7/19/2023 | HP-INTER-D-01 HP 72623 INT-D 7/26/2023 | HP-INTER-D-01 HP 8223 INT-D 8/2/2023 | HP-INTER-D-01 HP 8923 INT-D 8/9/2023 | HP-INTER-D-01 HP 81623 INT-D 8/16/2023 | |
|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Parameters | Units | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 0.57 J | 0.30 J | 0.42 J | 0.39 J | 0.28 J | 1.0 U | 0.44 J | 0.36 J | 1.0 U | 0.46 J | 0.33 J |
| 1,1,2,2-Tetrachloroethane | µg/L | 3.6 | 1.3 | 3.4 | 3.5 | 1.8 | 1.7 | 3.5 | 3.8 | 3.5 | 4.1 | 3.1 |
| 1,1,2-Trichloroethane | µg/L | 0.74 J | 0.26 J | 0.77 J | 0.83 J | 0.51 J | 0.32 J | 1.0 | 1.0 | 1.1 | 1.0 | 0.88 J |
| 1,1-Dichloroethane | µg/L | 3.4 | 3.3 | 3.0 | 3.4 | 3.4 | 4.6 | 3.6 | 4.0 | 3.4 | 3.8 | 3.2 |
| 1,1-Dichloroethene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | µg/L | 1.0 U | 0.34 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.36 J |
| 1,2-Dichlorobenzene | µg/L | 0.57 J | 0.52 J | 0.48 J | 0.54 J | 0.48 J | 0.50 J | 0.47 J | 0.51 J | 0.55 J | 0.73 J | 0.59 J |
| 1,2-Dichloroethane | µg/L | 16 | 18 | 15 | 15 | 17 | 23 | 15 | 14 | 15 | 18 | 14 |
| 1,2-Dichloropropane | µg/L | 0.98 J | 1.0 | 0.93 J | 1.0 | 1.1 | 1.2 | 1.2 | 1.4 | 1.1 | 1.4 | 1.1 |
| 1,3-Dichlorobenzene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.20 J |
| 1,4-Dichlorobenzene | µg/L | 0.33 J | 0.32 J | 0.29 J | 0.32 J | 0.28 J | 0.32 J | 0.28 J | 0.36 J | 0.37 J | 0.40 J | 0.44 J |
| 2-Chlorotoluene | µg/L | 9.3 | 7.6 | 7.9 | 8.2 | 7.6 | 9.2 | 7.8 | 9.0 | 9.9 | 11 | 9.0 |
| 3-Chlorotoluene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 4-Chlorotoluene | µg/L | 3.0 | 2.6 | 2.6 | 2.5 | 2.4 | 3.0 | 2.3 | 2.8 | 3.0 | 3.1 | 2.7 |
| Benzene | µg/L | 89 | 98 | 87 | 93 | 100 | 120 | 97 | 110 | 100 | 120 | 100 |
| Bromodichloromethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon disulfide | µg/L | 7.1 | 1.8 | 5.4 | 6.7 | 5.1 | 15 | 5.4 | 16 | 1.0 U | 13 | 2.1 |
| Carbon tetrachloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chlorobenzene | µg/L | 38 | 42 | 38 | 40 | 40 | 45 | 40 | 44 | 45 | 46 | 44 |
| Chloroethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroform (Trichloromethane) | µg/L | 16 | 6.3 | 15 | 16 | 10 | 12 | 20 | 20 | 17 | 18 | 16 |
| Chloromethane (Methyl chloride) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | µg/L | 7.9 | 4.4 | 5.2 | 5.1 | 4.0 | 4.5 | 4.8 | 4.8 | 7.8 | 7.1 | 5.7 |
| cis-1,3-Dichloropropene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Ethylbenzene | µg/L | 6.9 | 6.5 | 6.1 | 6.5 | 6.3 | 7.0 | 6.8 | 7.2 | 7.4 | 7.4 | 7.2 |
| m&p-Xylenes | µg/L | 6.8 | 7.0 | 6.7 | 6.7 | 6.5 | 7.5 | 6.8 | 8.4 | 7.4 | 7.9 | 7.1 |
| Methylene chloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| m-Monochlorobenzotrifluoride | µg/L | 0.92 J | 1.1 | 1.2 | 1.1 | 1.0 U | 0.83 J | 0.89 J | 0.96 J | 1.3 | 1.3 | 1.1 |
| o-Monochlorobenzotrifluoride | µg/L | 3.4 | 3.6 | 3.6 | 3.7 | 3.5 | 2.9 | 3.2 | 3.7 | 4.1 | 4.4 | 3.8 |
| o-Xylene | µg/L | 10 | 9.7 | 9.5 | 9.6 | 9.0 | 10 | 9.3 | 11 | 11 | 12 | 11 |
| p-Monochlorobenzotrifluoride | µg/L | 2.7 | 3.2 | 3.2 | 3.1 | 3.1 | 2.4 | 2.6 | 3.1 | 3.7 | 3.8 | 2.9 |
| Styrene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | µg/L | 0.29 J | 0.31 J | 0.33 J | 0.28 J | 1.0 U | 1.0 U | 0.30 J | 0.58 J | 0.32 J | 0.34 J | 0.29 J |
| Toluene | µg/L | 8.1 | 8.9 | 7.7 | 7.6 | 6.6 | 8.3 | 6.9 | 7.6 | 6.4 | 6.9 | 6.3 |
| trans-1,2-Dichloroethene | µg/L | 11 | 14 | 9.7 | 10 | 13 | 19 | 11 | 11 | 10 | 11 | 9.2 |
| trans-1,3-Dichloropropene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | µg/L | 5.9 | 4.6 | 5.4 | 5.4 | 4.8 | 4.9 | 5.4 | 5.7 | 6.6 | 7.2 | 6.6 |
| Trichlorofluoromethane (CFC-11) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl acetate | µg/L | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Vinyl chloride | µg/L | 25 | 11 | 18 | 19 | 13 | 13 | 21 | 18 | 30 | 30 | 19 |
| Xylenes (total) | µg/L | 17 | 17 | 16 | 16 | 15 | 18 | 16 | 19 | 18 | 20 | 18 |

Notes:
 J - Estimated concentration.
 U - Not detected at the associated reporting limit.
 UJ - Not detected; associated reporting limit is estimated.
 µg/L - Micrograms per liter

Table 4.2

2023 Weekly Carbon Interstage APL Sampling
Hyde Park Landfill Site
Town of Niagara, New York

| Sample Location: Sample ID: Sample Date: | HP-INTER-D-01 HP 82323 INT-D 8/23/2023 | HP-INTER-D-01 HP 83023 INT-D 8/30/2023 | HP-INTER-D-01 HP 9623 INT-D 9/6/2023 | HP-INTER-D-01 HP 91423 INT-D 9/14/2023 | HP-INTER-D-01 HP 92023 INT-D 9/20/2023 | HP-INTER-D-01 HP 92723 INT-D 9/27/2023 | HP-INTER-D-01 HP 10423 INT-D 10/4/2023 | HP-INTER-D-01 HP 101123 INT-D 10/11/2023 | HP-INTER-D-01 HP 101823 INT-D 10/18/2023 | HP-INTER-D-01 HP 102523 INT-D 10/25/2023 | HP-INTER-D-01 HP 11123 INT-D 11/1/2023 | |
|--|--|--|--|--|--|--|--|--|--|--|--|--------|
| Parameters | Units | | | | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 0.37 J | 0.37 J | 1.0 U | 1.0 U | 0.36 J | 0.40 J | 1.0 U | 0.26 J | 1.0 U | 0.34 J | 1.0 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 3.1 | 3.1 | 0.89 J | 0.74 J | 3.8 | 3.3 | 0.91 J | 3.6 | 0.85 J | 3.9 | 0.65 J |
| 1,1,2-Trichloroethane | µg/L | 1.0 | 0.93 J | 0.29 J | 0.22 J | 1.3 | 1.3 | 0.33 J | 1.3 | 0.35 J | 1.4 | 0.41 J |
| 1,1-Dichloroethane | µg/L | 3.3 | 3.8 | 3.5 | 3.6 | 3.4 | 3.5 | 3.8 | 3.3 | 3.0 | 3.5 | 3.3 |
| 1,1-Dichloroethene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 1.0 U | 1.0 U | 1.0 U | 0.35 J | 1.0 U |
| 1,2-Dichlorobenzene | µg/L | 0.60 J | 0.54 J | 0.48 J | 0.40 J | 0.48 J | 0.46 J | 0.41 J | 0.51 J | 0.41 J | 0.52 J | 0.39 J |
| 1,2-Dichloroethane | µg/L | 14 | 14 | 15 | 15 | 14 | 15 | 16 | 11 | 13 | 13 | 11 |
| 1,2-Dichloropropane | µg/L | 1.1 | 1.2 | 1.1 | 1.1 | 1.0 | 1.1 | 1.2 | 1.1 | 0.99 J | 1.1 | 0.98 J |
| 1,3-Dichlorobenzene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | µg/L | 0.34 J | 0.32 J | 0.28 J | 0.24 J | 0.37 J | 0.32 J | 0.26 J | 0.32 J | 0.24 J | 0.35 J | 0.22 J |
| 2-Chlorotoluene | µg/L | 9.5 | 9.4 | 7.7 | 7.1 | 9.2 | 8.2 | 7.0 | 8.7 | 6.1 | 8.5 | 5.7 |
| 3-Chlorotoluene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 4-Chlorotoluene | µg/L | 2.8 | 2.8 | 2.2 | 2.1 | 2.7 | 2.4 | 2.1 | 2.7 | 1.9 | 2.7 | 1.8 |
| Benzene | µg/L | 110 | 110 | 110 | 110 | 110 | 120 | 120 | 110 | 100 | 110 | 98 |
| Bromodichloromethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 UJ | 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 | 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon disulfide | µg/L | 1.0 U | 4.3 | 1.0 U | 2.1 | 2.5 | 3.2 | 1.0 U | 3.6 | 2.3 | 3.7 | 2.0 |
| Carbon tetrachloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chlorobenzene | µg/L | 45 | 44 | 44 | 39 | 43 | 43 | 41 | 44 | 38 | 41 | 33 |
| Chloroethane | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroform (Trichloromethane) | µg/L | 17 | 19 | 9.2 | 8.7 | 31 | 29 | 13 | 26 | 14 | 31 | 14 |
| Chloromethane (Methyl chloride) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | µg/L | 5.9 | 5.6 | 3.6 | 3.4 | 6.6 | 5.9 | 3.6 | 4.7 | 3.0 | 4.8 | 3.0 |
| cis-1,3-Dichloropropene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Ethylbenzene | µg/L | 7.5 | 7.6 | 6.6 | 5.9 | 7.2 | 7.0 | 6.0 | 7.4 | 5.6 | 6.9 | 4.8 |
| m&p-Xylenes | µg/L | 7.4 | 7.5 | 6.7 | 6.0 | 7.6 | 8.0 | 6.2 | 8.1 | 5.9 | 7.6 | 4.6 |
| Methylene chloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.73 J | 1.0 U |
| m-Monochlorobenzotrifluoride | µg/L | 1.3 | 1.0 | 0.99 J | 0.78 J | 1.1 | 1.0 | 0.86 J | 1.1 | 0.79 J | 1.0 | 0.61 J |
| o-Monochlorobenzotrifluoride | µg/L | 4.2 | 3.9 | 3.5 | 2.7 | 3.6 | 3.6 | 3.0 | 3.7 | 3.0 | 3.2 | 2.4 |
| o-Xylene | µg/L | 11 | 11 | 9.6 | 8.4 | 10 | 10 | 8.6 | 11 | 8.2 | 10 | 6.6 |
| p-Monochlorobenzotrifluoride | µg/L | 3.6 | 3.0 | 2.9 | 2.2 | 3.3 | 2.8 | 2.4 | 3.0 | 2.4 | 2.8 | 1.9 |
| Styrene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.23 J |
| Tetrachloroethene | µg/L | 0.30 J | 0.25 J | 0.27 J | 1.0 U | 0.24 J | 0.22 J | 1.0 U | 0.25 J | 1.0 U | 0.24 J | 1.0 U |
| Toluene | µg/L | 6.2 | 5.8 | 6.3 | 6.2 | 7.9 | 7.6 | 6.3 | 6.8 | 5.0 | 6.9 | 3.5 |
| trans-1,2-Dichloroethene | µg/L | 9.9 | 12 | 13 | 13 | 9.9 | 10 | 14 | 11 | 12 | 10 | 11 |
| trans-1,3-Dichloropropene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | µg/L | 6.8 | 6.2 | 5.0 | 4.5 | 7.1 | 6.9 | 5.0 | 6.6 | 5.1 | 7.1 | 4.9 |
| Trichlorofluoromethane (CFC-11) | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl acetate | µg/L | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Vinyl chloride | µg/L | 21 | 21 | 10 | 8.8 | 20 | 19 | 9.4 | 15 | 7.4 | 16 | 9.5 |
| Xylenes (total) | µg/L | 19 | 18 | 16 | 14 | 18 | 18 | 15 | 19 | 14 | 18 | 11 |

Notes:

- J - Estimated concentration.
- U - Not detected at the associated reporting limit.
- UJ - Not detected; associated reporting limit is estimated.
- µg/L - Micrograms per liter

Table 4.2
2023 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 | HP-INTER-D-01 | HP-INTER-D-01 | HP-INTER-D-01 |
|-----------------------------------|----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------|
| Sample ID: | HP 11823 INT-D | HP 111523 INT-D | HP 112223 INT-D | HP 112923 INT-D | HP 12623 INT-D | HP 121323 INT-D | HP 122023 INT-D | HP 122723 INT-D | HP 122723 INT-D |
| Sample Date: | 11/8/2023 | 11/15/2023 | 11/22/2023 | 11/29/2023 | 12/6/2023 | 12/13/2023 | 12/20/2023 | 12/27/2023 | 12/27/2023 |
| Parameters | Units | | | | | | | | |
| Volatile Organic Compounds | | | | | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.0 U | 1.0 U | 0.25 J | 0.50 J | 0.42 J | 0.38 J | 0.37 J | 1.0 U |
| 1,1,2,2-Tetrachloroethane | µg/L | 1.3 | 0.85 J | 2.6 | 6.4 | 4.6 | 3.5 | 2.5 | 0.62 J |
| 1,1,2-Trichloroethane | µg/L | 0.69 J | 0.46 J | 1.0 | 2.1 | 1.7 | 1.2 | 0.70 J | 0.20 J |
| 1,1-Dichloroethane | µg/L | 3.5 | 3.3 | 2.8 | 2.8 | 3.3 | 2.9 | 3.0 | 3.3 |
| 1,1-Dichloroethene | µg/L | 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 | 1.0 U | 1.0 U | 1.0 U | 0.46 J | 0.42 J | 0.37 J | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | µg/L | 0.34 J | 0.36 J | 0.41 J | 0.80 J | 0.78 J | 0.62 J | 0.50 J | 0.45 J |
| 1,2-Dichloroethane | µg/L | 14 | 12 | 11 | 13 | 12 | 11 | 10 | 11 |
| 1,2-Dichloropropane | µg/L | 0.94 J | 0.99 J | 0.87 J | 0.97 J | 1.0 | 0.97 J | 0.90 J | 1.0 |
| 1,3-Dichlorobenzene | µg/L | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | µg/L | 0.22 J | 0.22 J | 0.28 J | 0.50 J | 0.48 J | 0.43 J | 0.30 J | 0.32 J |
| 2-Chlorotoluene | µg/L | 5.8 | 5.8 | 6.9 | 12 | 11 | 9.6 | 9.0 | 7.8 |
| 3-Chlorotoluene | µg/L | 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 | 1.7 | 1.9 | 2.1 | 3.9 | 3.6 | 3.1 | 2.7 | 2.5 |
| Benzene | µg/L | 110 | 100 | 96 | 110 | 110 | 110 | 100 | 110 |
| Bromodichloromethane | µg/L | 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 | 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 | 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 | 2.7 | 1.0 U | 2.8 | 2.4 | 8.2 | 1.0 U | 7.3 | 4.0 |
| Carbon tetrachloride | µg/L | 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 | 34 | 34 | 37 | 49 | 47 | 42 | 41 | 41 |
| Chloroethane | µg/L | 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 | 19 | 13 | 20 | 42 | 29 | 15 | 13 | 6.6 |
| Chloromethane (Methyl chloride) | µg/L | 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 | 3.1 | 2.8 | 3.7 | 9.7 | 8.5 | 6.6 | 4.7 | 3.7 |
| cis-1,3-Dichloropropene | µg/L | 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 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Ethylbenzene | µg/L | 5.2 | 5.2 | 6.1 | 9.4 | 9.1 | 7.9 | 7.1 | 6.4 |
| m&p-Xylenes | µg/L | 5.3 | 5.0 | 6.0 | 12 | 10 | 9.0 | 7.3 | 5.7 |
| Methylene chloride | µg/L | 1.0 U | 1.0 U | 1.0 U | 3.3 | 0.89 J | 1.0 U | 1.0 U | 1.0 U |
| m-Monochlorobenzotrifluoride | µg/L | 0.74 J | 0.74 J | 0.92 J | 1.7 | 1.4 | 1.6 | 0.86 J | 0.96 J |
| o-Monochlorobenzotrifluoride | µg/L | 2.7 | 2.5 | 3.1 | 5.7 | 4.3 | 5.3 | 3.3 | 3.5 |
| o-Xylene | µg/L | 7.7 | 7.5 | 8.8 | 15 | 13 | 12 | 10 | 9.3 |
| p-Monochlorobenzotrifluoride | µg/L | 2.0 | 2.1 | 2.7 | 5.0 | 4.0 | 4.6 | 2.2 | 2.6 |
| Styrene | µg/L | 0.25 J | 0.24 J | 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 | 0.38 J | 0.41 J | 0.44 J | 0.27 J | 0.26 J |
| Toluene | µg/L | 3.7 | 2.8 | 5.1 | 17 | 9.6 | 7.0 | 4.9 | 3.6 |
| trans-1,2-Dichloroethene | µg/L | 11 | 11 | 8.4 | 7.9 | 9.1 | 7.9 | 7.5 | 10 |
| trans-1,3-Dichloropropene | µg/L | 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 | 5.4 | 5.2 | 7.2 | 16 | 11 | 11 | 7.6 | 7.0 |
| Trichlorofluoromethane (CFC-11) | µg/L | 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 | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Vinyl chloride | µg/L | 11 | 8.7 | 13 | 27 | 23 | 23 | 15 | 13 |
| Xylenes (total) | µg/L | 13 | 13 | 15 | 27 | 23 | 21 | 18 | 15 |

Notes:

- J - Estimated concentration.
- U - Not detected at the associated reporting limit.
- UJ - Not detected; associated reporting limit is estimated.
- µg/L - Micrograms per liter

**2023 Quarterly Leachate Feed APL Sampling
Hyde Park Landfill Site
Town of Niagara, New York**

| Sample Location: | PMPTKOUTLET | PMPTKOUTLET | PMPTKOUTLET | PMPTKOUTLET | |
|-----------------------------------|--------------|--------------|--------------|---------------|-------|
| Sample ID: | HP 32223 INF | HP 62123 INF | HP 92013 INF | HP 121323 INF | |
| Sample Date: | 3/22/2023 | 6/21/2023 | 9/20/2023 | 12/13/2023 | |
| Parameters | Units | | | | |
| Volatile Organic Compounds | | | | | |
| 1,1,1-Trichloroethane | µg/L | 1.3 J | 3.4 J | 3.6 J | 2.7 J |
| 1,1,2,2-Tetrachloroethane | µg/L | 41 | 90 | 92 | 68 |
| 1,1,2-Trichloroethane | µg/L | 3.9 J | 9.6 | 11 | 8.0 J |
| 1,1-Dichloroethane | µg/L | 5.0 U | 1.7 J | 1.4 J | 10 U |
| 1,1-Dichloroethene | µg/L | 5.0 U | 1.7 J | 2.3 J | 10 U |
| 1,2,4-Trichlorobenzene | µg/L | 260 | 470 | 550 | 630 |
| 1,2-Dichlorobenzene | µg/L | 34 | 77 | 89 | 72 |
| 1,2-Dichloroethane | µg/L | 7.4 | 17 | 18 | 15 |
| 1,2-Dichloropropane | µg/L | 5.0 U | 1.2 J | 1.3 J | 10 U |
| 1,3-Dichlorobenzene | µg/L | 11 | 25 | 26 | 17 |
| 1,4-Dichlorobenzene | µg/L | 46 | 98 | 110 | 87 |
| 2-Chlorotoluene | µg/L | 390 | 810 | 940 | 700 |
| 3-Chlorotoluene | µg/L | 3.9 J | 10 | 11 | 8.4 J |
| 4-Chlorotoluene | µg/L | 260 | 550 | 620 | 470 |
| Benzene | µg/L | 86 | 220 | 210 | 160 |
| Bromodichloromethane | µg/L | 5.0 U | 5.0 U | 5.0 UJ | 10 U |
| Bromoform | µg/L | 5.0 U | 5.0 U | 5.0 U | 10 U |
| Bromomethane (Methyl bromide) | µg/L | 5.0 U | 5.0 U | 5.0 U | 10 U |
| Carbon disulfide | µg/L | 4.5 J | 9.7 | 8.3 | 5.6 J |
| Carbon tetrachloride | µg/L | 14 | 17 | 7.9 | 13 |
| Chlorobenzene | µg/L | 260 | 610 | 670 | 520 |
| Chloroethane | µg/L | 5.0 U | 5.0 U | 5.0 U | 10 U |
| Chloroform (Trichloromethane) | µg/L | 130 | 360 | 360 | 260 |
| Chloromethane (Methyl chloride) | µg/L | 5.0 U | 5.0 U | 5.0 U | 10 U |
| cis-1,2-Dichloroethene | µg/L | 120 | 420 | 630 | 260 |
| cis-1,3-Dichloropropene | µg/L | 5.0 U | 5.0 U | 5.0 U | 10 U |
| Dichlorodifluoromethane (CFC-12) | µg/L | 5.0 U | 5.0 U | 5.0 U | 10 U |
| Ethylbenzene | µg/L | 88 | 200 | 210 | 160 |
| m&p-Xylenes | µg/L | 290 | 700 | 760 | 570 |
| Methylene chloride | µg/L | 14 | 36 | 38 | 32 |
| m-Monochlorobenzotrifluoride | µg/L | 31 | 73 | 73 | 63 |
| o-Monochlorobenzotrifluoride | µg/L | 100 | 220 | 220 | 200 |
| o-Xylene | µg/L | 160 | 370 | 400 | 300 |
| p-Monochlorobenzotrifluoride | µg/L | 130 | 280 | 280 | 240 |
| Styrene | µg/L | 5.0 U | 5.0 U | 5.0 U | 10 U |
| Tetrachloroethene | µg/L | 160 | 92 | 45 | 120 |
| Toluene | µg/L | 410 | 1000 | 1000 | 790 |
| trans-1,2-Dichloroethene | µg/L | 3.1 J | 7.1 | 5.8 | 5.8 J |
| trans-1,3-Dichloropropene | µg/L | 5.0 U | 5.0 U | 5.0 U | 10 U |
| Trichloroethene | µg/L | 200 | 530 | 350 | 440 |
| Trichlorofluoromethane (CFC-11) | µg/L | 1.5 J | 3.2 J | 2.5 J | 10 U |
| Vinyl acetate | µg/L | 10 U | 10 U | 10 U | 20 U |
| Vinyl chloride | µg/L | 24 | 80 | 74 | 63 |
| Xylenes (total) | µg/L | 450 | 1100 | 1200 | 870 |

**2023 Quarterly Leachate Feed APL Sampling
Hyde Park Landfill Site
Town of Niagara, New York**

| Sample Location: | PMPTKOUTLET | PMPTKOUTLET | PMPTKOUTLET | PMPTKOUTLET | |
|--|--------------|--------------|--------------|---------------|-------|
| Sample ID: | HP 32223 INF | HP 62123 INF | HP 92013 INF | HP 121323 INF | |
| Sample Date: | 3/22/2023 | 6/21/2023 | 9/20/2023 | 12/13/2023 | |
| Parameters | Units | | | | |
| Semi-volatile Organic Compounds | | | | | |
| 2,4,6-Trichlorophenol | µg/L | 9.1 U | 93 U | 3.6 J | 93 U |
| 2,4-Dichlorophenol | µg/L | 59 | 220 | 24 | 27 J |
| 2,4-Dimethylphenol | µg/L | 9.1 U | 93 U | 2.6 J | 93 U |
| 2,4-Dinitrophenol | µg/L | 45 U | 460 U | 45 U | 460 U |
| 2-Chlorobenzoic acid | µg/L | 1400 | 3800 | 4200 | 3200 |
| 2-Chloronaphthalene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| 2-Chlorophenol | µg/L | 3.2 J | 13 J | 8.7 J | 93 U |
| 2-Nitrophenol | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| 3-Chlorobenzoic acid | µg/L | 620 | 1900 | 2100 | 1600 |
| 4,6-Dinitro-2-methylphenol | µg/L | 45 U | 460 U | 45 U | 460 U |
| 4-Chloro-3-methylphenol | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| 4-Chlorobenzoic acid | µg/L | 1400 | 3900 | 4000 | 2900 |
| 4-Nitrophenol | µg/L | 45 U | 460 U | 45 U | 460 U |
| Acenaphthene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Acenaphthylene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Anthracene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Benzo(a)anthracene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Benzo(a)pyrene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Benzo(b)fluoranthene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Benzo(g,h,i)perylene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Benzoic acid | µg/L | 2800 | 12000 | 12000 | 6400 |
| bis(2-Chloroethoxy)methane | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| bis(2-Ethylhexyl)phthalate (DEHP) | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Butyl benzylphthalate (BBP) | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Chlorendic acid | µg/L | 2000 | 5100 | 5300 | 4200 |
| Chrysene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Dibenz(a,h)anthracene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Diethyl phthalate | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Dimethyl phthalate | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Di-n-butylphthalate (DBP) | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Di-n-octyl phthalate (DnOP) | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Fluoranthene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Fluorene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Hexachlorobenzene | µg/L | 9.5 | 93 U | 4.7 J | 93 U |
| Hexachlorobutadiene | µg/L | 15 | 20 J | 15 | 20 J |
| Hexachlorocyclopentadiene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Hexachloroethane | µg/L | 5.5 J | 12 J | 5.3 J | 93 U |
| Indeno(1,2,3-cd)pyrene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Isophorone | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Naphthalene | µg/L | 1.8 J | 93 U | 8.9 U | 93 U |
| Octachlorocyclopentene | µg/L | 4.5 U | 46 U | 4.5 U | 46 U |
| Pentachlorophenol | µg/L | 45 U | 460 U | 45 U | 460 U |
| Phenanthrene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |
| Phenol | µg/L | 9.1 U | 1700 | 1900 | 840 |
| Pyrene | µg/L | 9.1 U | 93 U | 8.9 U | 93 U |

Notes:

- U Not detected at the associated reporting limit.
- J Estimated concentration.
- UJ Not detected; associated reporting limit is estimated.
- µg/L Micrograms per liter

**2023 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 32223 SAC | HP 62123 SAC | HP 92023 SAC | HP 121323 SAC | |
| Sample Date: | 3/22/2023 | 6/21/2023 | 9/20/2023 | 12/13/2023 | |
| Parameters | Units | | | | |
| Polychlorinated Biphenyls (PCB) | | | | | |
| Total pentachlorobiphenyl | pg/L | 14800 J | 385000 J | 278000 J | 362000 J |
| Total tetrachlorobiphenyl | pg/L | 26700 J | 487000 J | 443000 J | 556000 J |
| Total trichlorobiphenyl | pg/L | 18000 J | 162000 J | 194000 J | 304000 J |
| Total PCBs | µg/L | 0.0595 J | 1.034 J | 0.915 J | 1.222 J |
| Dioxin Furans | | | | | |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) | pg/L | 719 | 1230 | 7700 | 3040 |

Notes:

- J - Estimated concentration
- pg/L - Picograms per liter
- µg/L - Micrograms per liter

Appendices

Appendix A

**Institutional and Engineering Controls
Certification Form**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

2/13/2024

Joseph Branch
Project Manager
OXY-Glenn Springs Holdings, Inc.
7601 Old Channel Trail
Montague, MI 49437
Joseph_Branch@oxy.com

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
Town Of Niagara, 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, 2024**. 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, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Andrew Zwack, the Project Manager, at 716-851-7284 or andrew.zwack@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
700 Delaware Ave

Buffalo, NY 14209-2202

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

ec: w/ enclosures

Andrew Zwack, Project Manager
Stanley Radon, Hazardous Waste Remediation Supervisor, Region 9

GHD - John Pentilchuk - john.pentilchuk@ghd.com
GHD - Margaret Popek - margaret.popek@ghd.com

The following parcel owner did not receive an ec:

Niagara Mohawk Power Corp - Parcel Owner
Occidental Chemical Corporation - Parcel Owner

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: Town Of Niagara | | | |
| County: Niagara | | | |
| Site Acreage: 22.800 30 | | | |
| Reporting Period: March 31, 2023 to March 31, 2024 | | | |
| | | YES | NO |
| 1. | Is the information above correct? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. | Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4. | Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. <div style="border: 1px solid red; padding: 2px; display: inline-block; margin-left: 20px;"> Niagara Falls Water Board Significant Industrial User Wastewater Discharge Permit No. 49 modified on July 27, 2023. Please see attached. </div> | | |
| 5. | Is the site currently undergoing development? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | Box 2 | |
| | | YES | NO |
| 6. | Is the current site use consistent with the use(s) listed below? Closed Landfill | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. | Are all ICs in place and functioning as designed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 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 | |

Description of Institutional Controls

| <u>Parcel</u> | <u>Owner</u> | <u>Institutional Control</u> |
|---------------|---------------------------------|--|
| 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 130.11-4.1

| | | |
|--------------|---------------------------------|---|
| 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
- Performance Monitoring Plan, July 31, 2006
- 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."

| | | |
|--------------|---------------------------|--|
| 130.11-1-5.1 | Niagara Mohawk Power Corp | |
|--------------|---------------------------|--|

7.2 acre portion only

Monitoring Plan
O&M Plan

Occidental, the United States and State of New York:

- Stipulation and Judgment Approving Settlement Agreement, January 19, 1981
- Stipulation on Requisite Remedial Technology; November 1, 1985
- Enforcement Decision Document for Requisite Remedial Technology, November 11, 1985
- Performance Monitoring Plan, July 31, 2006

Description of Engineering Controls

Parcel

Engineering Control

130.11-1-3

Point-of-Entry Water Treatment
Groundwater Treatment System
Groundwater Containment
Fencing/Access Control
Monitoring Wells

Granular activated carbon 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
Monitoring Wells
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.

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 of in the landfill. Niagara Gorge face seeps remediation by APL plume pumping wells through groundwater flow zones.

130.11-1-5.1

7.2 acre portion only

Groundwater Treatment System
Cover System
Groundwater Containment
Leachate Collection
Fencing/Access Control
Monitoring Wells

The below engineering controls are from documentation that are the most applicable to the parcel and community wide remediation.

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.

Periodic Review Report (PRR) Certification Statements

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

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control 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 complete.

YES NO

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The 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 A. Branch at 7601 Old Channel Trail, Montague, MI 49437
print name 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

4-30-2024
Date

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 Richard Snyder at 2055 Niagara Falls Boulevard, Niagara Falls, NY 14304,
print name print business address

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



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification



4-27-24
Date

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.



NIAGARA FALLS WATER BOARD

SIGNIFICANT INDUSTRIAL USER WASTEWATER DISCHARGE PERMIT

PERMIT No. 49

In accordance the provisions of the Niagara Falls Water Board Wastewater Regulations,
21 NYCRR Part 1960, permission is hereby granted to:

Occidental Chemical Corporation Glenn Springs Holdings, Inc. Hyde Park Facility

Located at: **4825 Hyde Park Boulevard Niagara Falls, NY 14305**

Classified by SIC Number: **None, non-manufacturing**

For the discharge of wastewater into the Niagara Falls Water Board Publicly Owned Treatment Works (POTW) in accordance with the conditions set forth in this permit. Compliance with this permit does not relieve the permittee of its obligation to comply with any or all applicable pretreatment regulations, standards, or requirements under local, state, and federal laws, including any such regulations, standards, requirements, or laws that might become effective during the term of this permit. Noncompliance with any term or condition of this permit will constitute a violation of 21 NYCRR Part 1960.

This permit will become effective September 13th, 2020 and will expire at midnight on September 12th, 2025. If permittee wishes to continue to discharge after the expiration date of this permit, an application must be filed for a renewal permit a minimum of 90 calendar days before the expiration date.

This permit originally was issued the 13th day of September, 2020 and has been modified this 27th day of July, 2023. This page was modified on July 27th, 2023.

By: /s/ Dr. Abderrahman Zehraoui*
Dr. Abderrahman Zehraoui
Executive Director, Niagara Falls Water Board

**Duplicate copy – file copy contains original "wet ink" signature.*

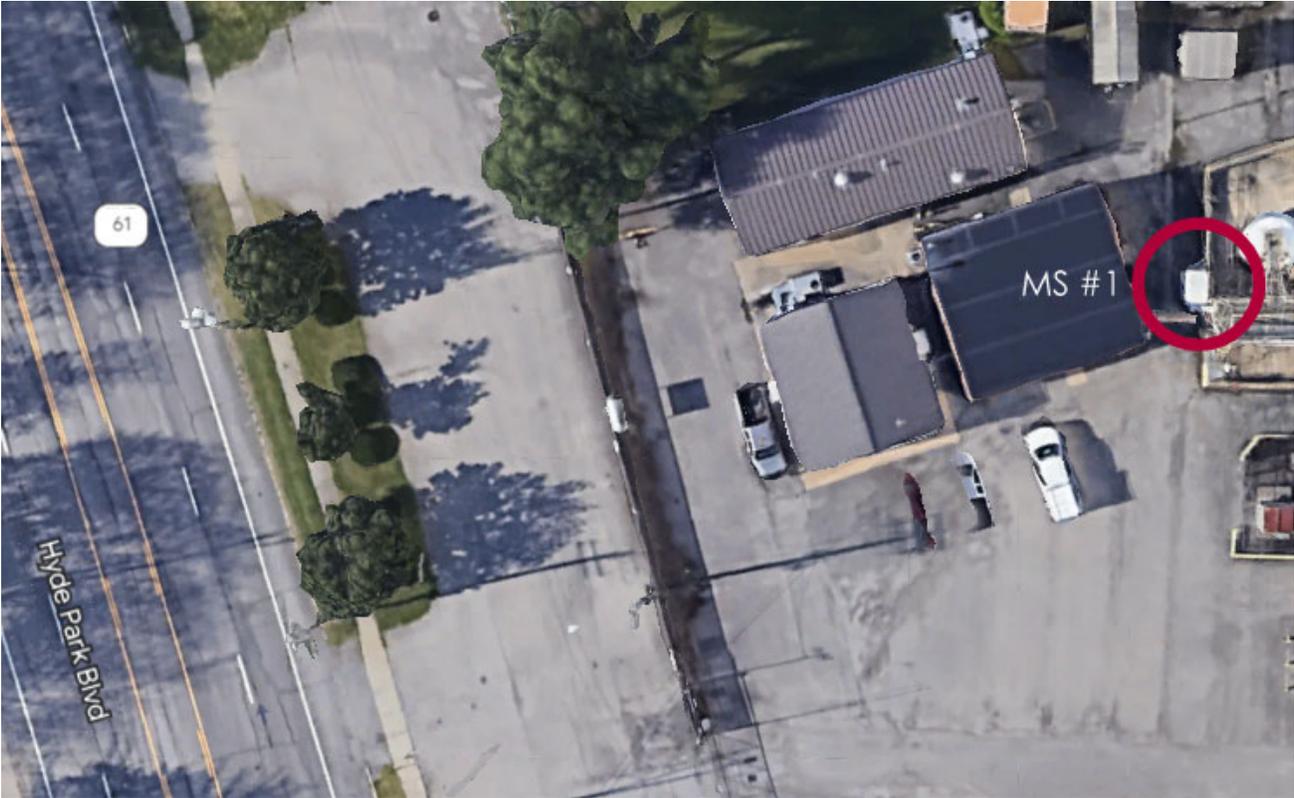
This page modified July 27th, 2023

DISCHARGE IDENTIFICATION

| OUTFALL | DESCRIPTION | LOCATION | RECEIVING |
|---------|--------------|---|--|
| MS #1* | Main Outfall | 4825 Hyde Park Blvd. East of Hyde Park Blvd. | Pretreated leachate from the Hyde Park landfill. |

*See photo below

Monitoring Station #1



WASTEWATER DISCHARGE PERMIT REQUIREMENTS FOR:

A. Discharges to the Niagara Falls Water Board (NFWB) Sewer

| | | Action required | Required date of submission |
|----|--|----------------------------|--|
| 1. | Identification of all discharges to the NFWB Sewer System on a current plant sewer map certified by a New York State licensed professional engineer. | NONE | Previously submitted |
| 2. | Identification of each contributing waste stream to each discharge to the NFWB Sewer System clearly marked on, or referenced to, a current plant sewer map certified by a New York State licensed professional engineer. | NONE | Previously submitted |
| 3. | Elimination of all uncontaminated discharges to the NFWB Sewer System. All uncontaminated flows should be clearly identified on a current sewer map certified by a New York State licensed professional engineer. | NONE | Previously submitted |
| 4. | Establishment of a control manhole that is continuously and immediately accessible for each discharge to the NFWB Sewer System. | NONE | Previously established |

B. Wastewater Discharge Management Practices

| | | |
|----|--|------------------|
| 1. | Identification of a responsible person(s) (day to day and in emergencies). | Update as needed |
|----|--|------------------|

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C. General Wastewater Discharge Permit Conditions

1. Flow monitoring should be performed concurrently with any Wastewater Discharge Permit sampling and should be reported at the same time as analytical results. If it is not feasible to perform flow monitoring, an estimate of flow (method of estimated flow preapproved by the Niagara Falls Water Board) should be submitted with the analytical results.
2. All sampling for billing and pretreatment compliance purposes will be coordinated through the Niagara Falls Water Board Industrial Monitoring Coordinator. All samples must be collected, preserved, and analyzed in accordance with the procedures established in 40 CFR Part 136, and amendments or as otherwise approved by the EPA Administrator. Chain of Custody records will be submitted with all sampling results.
3. All analysis must be performed by a State certified laboratory using analytical methods promulgated and consistent with 40 CFR Part 136 and amendments thereto or as otherwise approved by the EPA Administrator. The permittee will request their contract laboratory to report both Practical Quantitation Limit (PQL) and Method Detection Limit (MDL). The PQL and MDL are defined in the NYSDEC Technical Guidance Series 1.3.7.

The permittee should report results that are less than the MDL or PQL on the NFWB Self-Monitoring Report, as non-detect (ND), by placing a less than sign (<) followed by the analytical result. Every effort should be made to attain results down to the MDL. If this is not possible, then results less than PQL but greater than MDL must also be additionally flagged with the qualifier "J" on the Self-Monitoring Report. For example, a result less than 5 PQL would be reported <5 (J). In either case the calculated load in lbs. per day would be zero.

Monitoring results which are lower than the PQL must be reported but will not be used to determine compliance with the permit limit.

4. For samples required to be collected via a 24-hour composite sampler, permittee is required to retain a minimum of three samples on rotation at all times. The first sample shall be the current sample undergoing compositing. The second sample is the completed composite sample which represents the discharge from the preceding 24 hours. The third sample is a completed composite sample from the next preceding 24 hours. These samples shall not be split or otherwise altered without prior authorization from the Director.
5. A log shall be maintained in each Monitoring Station and shall contain the date, time, and flow integrator number at the time each daily sample is removed, the gallons conversion factor, and daily flow in million gallons per day. Comments detailing unusual events, equipment malfunctions, etc., shall also be recorded.
6. An estimate of relative production levels for wastewater contributing processes at the time of any pretreatment compliance sampling will be submitted upon request of the Director of the Niagara Falls Water Board. (C. continued)

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C. General Wastewater Discharge Permit Conditions (continued)

7. Permittee must not ever increase the use of potable or process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable Pretreatment Standard or Requirement. The Executive Director may impose mass limitations on permittees who are using dilution to meet applicable Pretreatment Standards or Requirements, or in other cases when the imposition of mass limitations is appropriate.
8. In accordance with 40 CFR 403.12(g)(2), if sampling performed by permittee indicates a violation of this permit, the permittee shall notify the NFWB within 24 hours of becoming aware of the violation. If a limit listed in Section E of this permit is exceeded, permittee will undertake a short-term monitoring for that pollutant and repeat the sampling and analysis for the limitation violated in a manner identical to the procedure used for routine monitoring purposes on least two (2) operating days and shall submit the analytical results for the repeat sampling to the NFWB within 30 days after becoming aware of the violation. Results will be reported in both concentration and mass.
9. Sampling frequency for any permitted compounds may be increased beyond the requirements set forth in Section E and F of this permit. If the permittee monitors any pollutant more frequently than required by this permit, using test procedures prescribed in 40 CFR Part 136 or amendments thereto, or otherwise approved by EPA, or as specified in this permit, the results of such monitoring must be included in any calculations of actual daily maximum or monthly average pollutant discharge, and results must be reported in the monthly report submitted to the NFWB. Such an increased monitoring frequency must also be indicated in the monthly report.
10. The Annual Average Limitation is equivalent to the specific SIU allocation and will be defined as the permissible long term average discharge of a particular pollutant. These limitations are listed in Section E of this permit. The computation of the Annual Average will be as follows; for each compound listed in Section F of this permit, the Annual Average will be the average of the present monitoring quarter and three previous quarters' data.
11. The Daily Maximum Limitation will be defined as the maximum allowable discharge on anyone day. The Daily Maximum Limitation will allow for periodic short term discharge fluctuations. These specific limitations are listed in Section E of this permit.
12. Enforcement of the Annual Average Limitation will be based on the reported average of the last four quarters data vs. the Annual Average Limit listed in Section E of this permit. Enforcement of the Daily Maximum Limitation will be based on individual analysis results vs. the Daily Maximum Limit listed in Section E of this permit. These results may be obtained from self-monitoring (Section F), the Niagara Falls Water Board Verification, incident investigation or billing samples. (C. continued)

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C. General Wastewater Discharge Permit Conditions (continued)

13. The Niagara Falls Water Board Administrative Procedure Number 6 "Procedure for Determination and Use of Local Limits" lists all pollutants noted in the Niagara Falls Water Board – Wastewater Facilities SPDES Permit. The limits defined in the procedure are values which are based on the quantity of substances discharged which can be easily related to the Treatment Plant's removal capacity. Permittee may obtain a list of Local Limits from the NFWB Industrial Monitoring Coordinator and must comply with the Local Limits even if not required to monitor for all of the pollutants with local limits.

The pollutants listed in Administrative Procedure Number 6 which have Local Limits but which are not specifically listed in Section E and F of this permit may be present in the permittee's wastewater discharge, but at levels which do not require specific permit limitations. Consequently, if any of the Local Limits for pollutants not identified in Section E and F of this permit are exceeded, permittee must undertake a short-term, high intensity monitoring program for that pollutant as follows: Samples identical to those required for routine monitoring purposes will be collected on each of at least three operating days and analyzed. Results will be expressed in terms of both concentration and mass, and will be submitted no later than the end of the third month following the month when the limit was first exceeded.

If levels higher than the Local Limit are confirmed, the permit may be modified by the NFWB to add new or revised permit limits.

14. The permittee must notify the NFWB immediately upon the occurrence of spills, including accidental discharges, discharges of a nonroutine, episodic nature, a noncustomary batch discharge, slug loads or slug discharges that might cause potential problems for the POTW or spills that might enter the public sewer. During normal business hours the NFWB should be notified by telephoning the Industrial Monitoring Coordinator, and failing to make direct contact with the Industrial Monitoring Coordinator, by telephoning the wastewater treatment plant Chief Operator. Contact information may be obtained from the Industrial Monitoring Coordinator. The notification must include location of discharge; date and time of discharge; type of waste, including concentration and volume; and corrective actions taken. The permittee's notification of accidental releases in accordance with this section does not relieve it of other reporting requirements that arise under local, state, or federal laws.

Within 5 days following an accidental discharge, the permittee shall submit to the NFWB a detailed written report. The report must specify the following:

- a. Description and cause of the upset, slug load, or accidental discharge; the cause thereof; and the impact on the permittee's compliance status. The description should also include location of discharge and type, concentration, and volume of waste.
- b. Duration of noncompliance, including exact dates and times of noncompliance and, if the noncompliance is continuing, the time by which compliance is reasonably expected to occur. (C 14. continued...)

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C. General Wastewater Discharge Permit Conditions (14 C. continued)

- c. All steps taken or to be taken to reduce, eliminate, and/or prevent recurrence of such an upset, slug load, accidental discharge, or other conditions of noncompliance.

40 CFR 403.8(f)(2)(vi) requires the SIU to notify the Niagara Falls Water Board immediately of any changes at its facility affecting its potential for a slug discharge.

15. 40 CFR 403.17(c) contains the notification requirements for anticipated and unanticipated bypass. In the event of an anticipated bypass, the federal regulations at 403.17 (c)(1) require an industrial user to notify the NFWB at least ten days prior to the date of the bypass. In the event of an unanticipated bypass, the federal regulations at 40 CFR 403.17(c)(2) require an industrial user to notify the NFWB within 24 hours from the time the industrial user becomes aware of the bypass and submit a written description of the bypass within five days of the time the industrial user becomes aware of the bypass. As defined at 403.17 (a)(1), a bypass is "the intentional diversion of wastestreams from any portion of an Industrial User's treatment facility."

16. All reports submitted in connection with this Permit, including all compliance and monitoring reports, shall be signed by an authorized representative of industrial user pursuant to 40 CFR Part 403.12(l) and per NFWB Wastewater Regulation 1960.7(b)(2) shall contain a certification statement which shall read:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

17. As set forth in NFWB Wastewater Regulation 1960.9(b)(4), any person who knowingly makes any false statements, representation or certification in any application, record, report, plan or other document filed or required to be maintained pursuant to the Wastewater Regulations, or SIU Permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under the Wastewater Regulations, shall be assessed a penalty in an amount not to exceed \$10,000 per violation per day.
18. Per NFWB Wastewater Regulation 1960.9(b)(2), any person determined to have violated any of the provisions of the NFWB Wastewater Regulations shall be assessed a penalty in an amount not to exceed \$10,000 per individual violation per day. (C. continued)

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C. General Wastewater Discharge Permit Conditions (continued)

19. The person violating any of the provisions of the Niagara Falls Water Board Wastewater Regulations also will be liable for any expense, loss, or damage occasioned by reason of such violation. The expense, loss, or damage may include but is not limited to additional pollutant treatment costs, damages to the POTW, personnel expenses for investigation, legal fees, and any other expense, loss, or damage occasioned by the violation. The expense, loss or damage will be taken to be to the extent determined by the Executive Director.
20. All conditions, standards and numeric limitations of Niagara Falls Water Board Wastewater Regulations are hereby incorporated into this permit by reference. These conditions, standards and numeric limitations must be complied with.
21. The permittee must comply with all conditions of this permit. Failure to comply with the requirements of this permit may be grounds for administrative action, or enforcement proceedings including civil or criminal penalties, injunctive relief, and summary suspension of discharge access.
22. The permittee must take all reasonable steps to contain or correct any adverse impact to the POTW or the environment resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.
23. Per NFWB Wastewater Regulations Section 1960.5(h)(1), personnel as designated by the Director shall be permitted at any time to enter upon all properties served by the Water Board POTW for the purpose of, and to carry out, inspection of premises, observation, measurement, sampling and testing, to determine compliance or non-compliance with applicable pretreatment standards and requirements. Personnel shall also be permitted to inspect and copy any and all documentation pertaining to discharge monitoring and analysis.
24. Permittee must furnish to the NFWB any information that the NFWB may request to determine whether cause exists for modifying, revoking, or terminating this permit or to determine compliance with this permit. The permittee must also, upon request, furnish to the NFWB copies of any records required to be kept pursuant to this permit. (C. continued)

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C. General Wastewater Discharge Permit Conditions (continued)

25. The permittee must retain records of all monitoring information including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application.

This record retention period automatically is extended during enforcement or litigation activities involving the NFWB or permittee's discharge of pollutants, with the retention period extended until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired. The records retention period also is extended when requested by the NFWB, EPA Director, or EPA Regional Administrator.

26. As noted in Section 1960.6(g) of the NFWB Wastewater Regulations, "Permits are issued to a specific user. A permit shall not be reassigned or transferred without the approval of the Director. Any succeeding owner or user to which a permit has been transferred shall also comply with all terms and conditions of the existing permit." Per 40 CFR 403.8(f)(1)(iii)(B)(2), a copy of this permit must be provided to the new owner or operator of the facility that is the subject of this permit.

27. The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any violation of federal, state, or local laws or regulations.

28. Per NFWB Wastewater Regulations Section 1960.6(e)(3), SIUs must obtain prior approval from the Director to discharge new or significantly increased wasteloads. The approval may require modification to the SIU Permit. In addition, permittee must notify the NFWB prior to making significant changes to pretreatment or monitoring facilities.

29. Pursuant to 21 NYCRR 1960.6(f), the terms and conditions of this permit may be subject to modification by the NFWB, during the term of the permit, as limitations or requirements are modified or other just cause exists.

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D. Specific Wastewater Discharge Permit Conditions

1. Billing:

Determination of quantities of flow, TSS and SOC will be made at the NFWB's expense and will be based on five (5) representative 24-hour flow proportion composite samples collected at the monitoring station.

2. Hyde Park Leachate Treatment System:

Permission is hereby granted to discharge to the NFWB's combined sewer on Hyde Park Boulevard pretreated wastewater consisting of Leachate from the Permittee's Hyde Park Landfill Site, subject to the following conditions:

- a) The permittee will monitor the discharge of pretreated Leachate from the Hyde Park Remedial Program in conformance with the Settlement Agreement between Occidental Chemical Corporation (OCC), New York State and the USEPA entered in the U.S. District Court for Western New York on January 19, 1981.
- b) The issuance of this approval is based on the permittee's previous assertions that there is no reason to anticipate the presence of tetrachlorodibenzo-p-dioxins in the discharge from the treatment facility. The NFWB hereby reserves the right to collect samples from the treatment facility effluent and analyze such wastewaters for their chemical constituents, including tetrachlorodibenzo-p-dioxins. If such analysis indicates the presence of tetrachlorodibenzo-p-dioxins, this approval may be withdrawn. If at anytime, the City determines on any basis that the discharge of these wastewaters to the POTW is interfering with the operation of that facility, the NFWB will direct the permittee to discontinue the discharge.

3. Intra-Jurisdictional Agreement

The permittee shall abide by the intra-jurisdictional agreement dated September 13, 2020 identified as Attachment No. 1.

4. Slug Discharge Control Plan:

Pursuant to the Federal Pretreatment Program Requirements, 40 CFR 403.8(f)(2)(vi), the NFWB periodically evaluates whether each such Significant Industrial User needs a plan or other action to control Slug Discharges. If the NFWB determines the permittee must develop and implement a Slug Discharge Control Plan, it must adhere to all requirements set forth in 40 CFR 403.8(f)(2)(vi). The Slug Discharge Control Plan must be implemented and all sections pertaining to sewer discharges to the NFWB are enforceable under this permit. All future revisions to the Slug Discharge Control Plan are also enforceable. Revised plans must be submitted to the Niagara Falls Water Board.

This permittee has been reviewed **and is NOT required to develop and implement such a plan.**

E. Discharge Limitations & Monitoring Requirements

During the Period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall(s) will be limited and monitored by the permittee as specified below.

| OUTFALL NUMBER/ EFFLUENT PARAMETER | DISCHARGE LIMITATIONS | | UNITS | MINIMUM MONITORING REQUIREMENTS | |
|---|----------------------------------|--------------------------|-------------------|--|------------------------|
| | ANNUAL AVERAGE | DAILY MAXIMUM | | MEASUREMENT FREQUENCY | SAMPLE TYPE |
| MS # 1 Flow | 0.40 | 0.60 | MGD | Continuous | N/A |
| MS # 1 Total Suspended Solids | 10.0 | 20.0 | lbs/day | 5/Quarter | 7 |
| MS # 1 Soluble Organic Carbon | 13.0 | 26.0 | lbs/day | 5/Quarter | 7 |
| MS # 1 Total Phosphorous | 16.0 | 22.0 | lbs/day | 1/Quarter | 3 |
| MS #1 pH | N/A | 6-9 | Standard Units | 1/Quarter | grab |
| MS #1 Vinyl Chloride | 0.45 | 0.75 | lbs/day | 1/Quarter | 2 |

SAMPLE TYPE FOOTNOTES

- (1) Each sample will consist of four (4) grabs collected spaced throughout the **batch** discharge, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. The four (4) grabs will be **composited in the laboratory** and analyzed as one sample.
- (2) Each sample will consist of four (4) grabs collected spaced over the 24-hour period, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. The four (4) grabs will be **composited in the laboratory** and analyzed as one sample.
- (3) Each sample will consist of a 24-hour, **flow proportioned** composite sample collected from the monitoring point.
- (4) Flow will be monitored continuously with the use of a water meter or another acceptable flow metering device.
- (5) Each sample will consist of a 24-hour, **time proportioned** composite sample collected from the monitoring point.
- (6) Reserved
- (7) Same as (3), however, five (5) samples will be collected per quarter from the monitoring point and analyzed by and at the Niagara Falls Water Board expense.
- (8) Four (4) grab samples will be collected spaced over the 24-hour period, such that they are representative of the effluent being discharged pursuant to 40CFR 403.12.b5iii. Each grab will be **analyzed and reported separately**.
- (9) A grab sample is defined as an aliquot collected over a period of not more than 15 minutes.

F. Discharge Monitoring Reporting Requirements

During the period beginning the effective date of this permit and lasting until its expiration date, discharge monitoring results will be summarized and reported by the permittee; Monthly - 14 days after monitoring period, Quarterly - by the last day of the monitoring period = February 28, May 31, August 31, November 30. Semiannual reports will be submitted on the last day of the monitoring period = February 28, August 31. The annual average for each parameter listed in Section F, will be computed and reported quarterly. The individual sample analysis for present quarter will also be reported quarterly unless directed otherwise in this permit.

| OUTFALL NO | PARAMETER | REPORTING FREQUENCY |
|-------------------|-------------------|----------------------------|
| MS # 1 | Flow | Monthly |
| MS # 1 | Total Phosphorous | Quarterly |
| MS # 1 | pH | Monthly |
| MS # 1 | Vinyl Chloride | Quarterly |

G. Comments/Revisions

July 27, 2023:

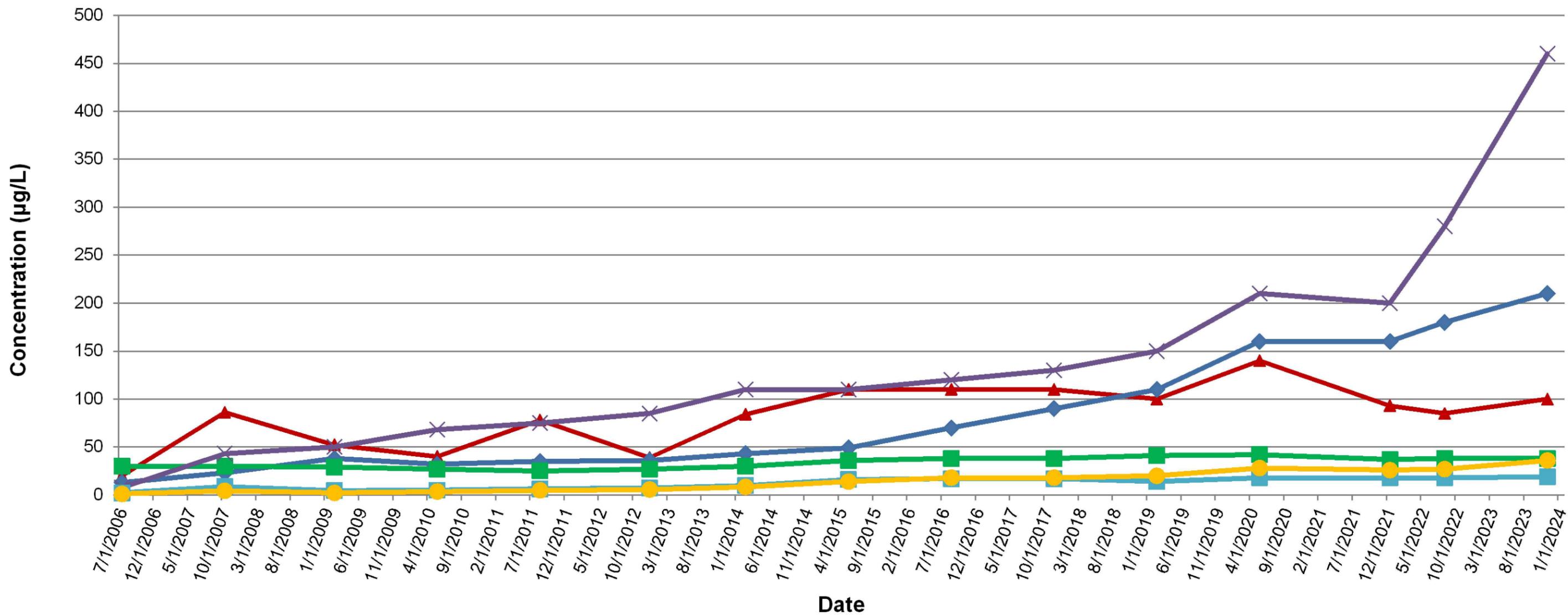
All NFWB discharge permits are being amended in a manner consistent with Nos. (1)-(4) below:

- (1) Cover (Page 1) – format updated, including greater detail on permittee’s obligations and addition of information on deadline for submission of application for renewal permit.
- (2) Discharge Identification – description of designated sampling location enhanced.
- (3) Section C, General Wastewater Discharge Permit Conditions – certain citations updated or added, condition numbers and order of conditions revised to group similar requirements, some numbered paragraphs were combined and some were separated and wording in certain conditions to enhance clarity or add detail, incorporated certain existing regulatory requirements directly into conditions to enhance permit usefulness and aid compliance.
- (4) Section D, Slug Discharge Control Plan – minor revisions and clarifications.

Appendix B

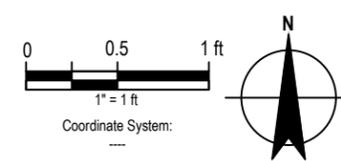
Well G6-05 Organic

Compound Concentrations



Legend

- ▲ 1,1,2,2-PCA
- ◆ Vinyl Chloride
- trans-1,2-DCE
- ✕ cis-1,2-DCE
- 1,1,2-TCA
- Chlorobenzene



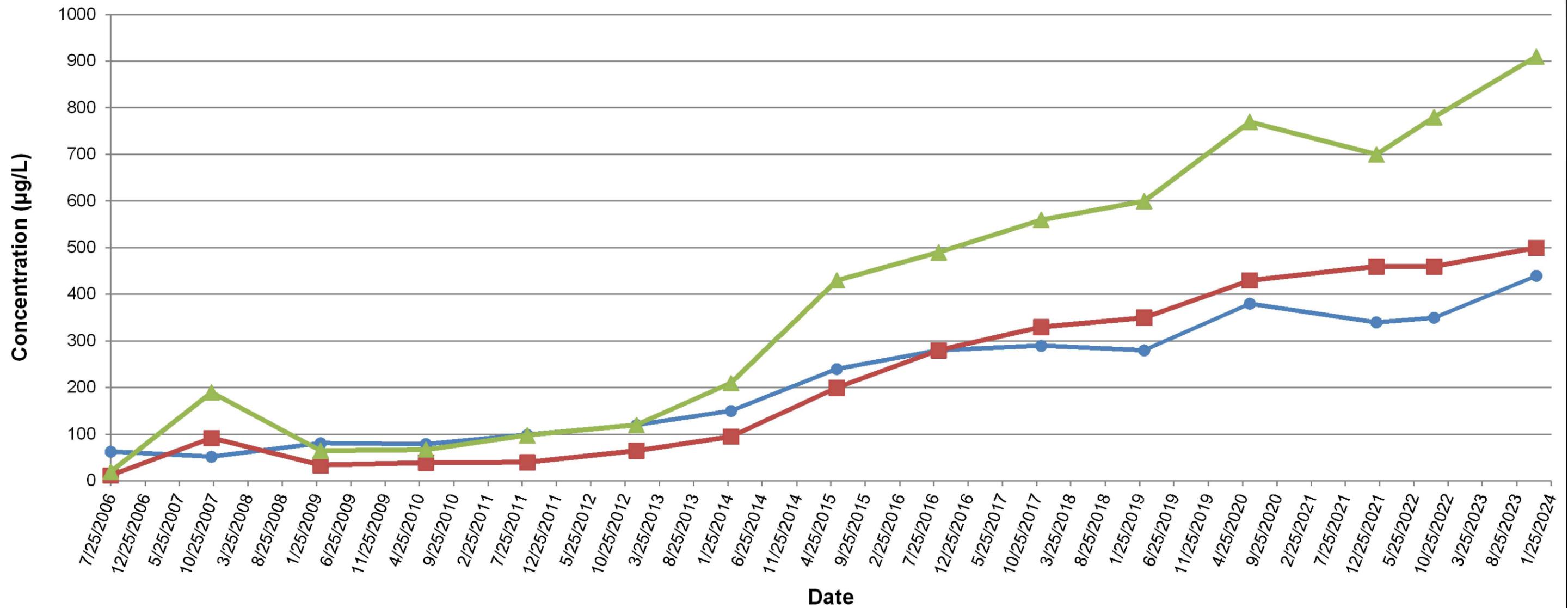
GLENN SPRINGS HOLDINGS, INC.
HYDE PARK LANDFILL SITE
NIAGARA FALLS, NEW YORK

CONCENTRATIONS OF ORGANIC
COMPOUNDS IN WELL G6-05

Project No. 11230216
Date April 2024

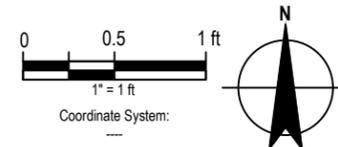
FIGURE B.1

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Plot Date: 01 April 2024 4:18 PM



Legend

- Benzene
- Trichloroethene
- ▲ Chloroform



GLENN SPRINGS HOLDINGS, INC.
HYDE PARK LANDFILL SITE
NIAGARA FALLS, NEW YORK

CONCENTRATIONS OF ORGANIC
COMPOUNDS IN WELL G6-05

Project No. 11230216
Date April 2024

FIGURE B.2

Appendix C

Monitoring Well Gauging and Sampling Logs



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (TOR) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---|---------------|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| ABP-1-07 | JK | 4/14/2023 | Y | | 33.31 | P | FM | Y | Y | G | N | N | G | G | Y | Y | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| ABP-1-09 | JK | 4/14/2023 | Y | | 44.32 | P | FM | Y | Y | G | N | N | G | G | Y | Y | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| ABP-7-06 | JK | 4/14/2023 | Y | | 21.85 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| ABP-7-07 | JK | 4/14/2023 | Y | | 43.30 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| ABP-7-09 | JK | 4/14/2023 | Y | | 50.73 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AFW-1L-11 | JK | 4/14/2023 | Y | | 77.68 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AFW-1M-07 | JK | 4/14/2023 | Y | | 38.77 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AFW-1M-09 | KM | 4/14/2023 | Y | | 47.43 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AFW-1U-06 | JK | 4/14/2023 | Y | | 17.62 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AFW-2L-11 | JK | 4/14/2023 | Y | | 104.45 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AFW-2M-07 | JK | 4/14/2023 | Y | | 67.30 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AFW-2M-09 | JK | 4/14/2023 | Y | | 76.11 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---|---------------|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| AFW-2U-04 | JK | 4/14/2023 | Y | | 22.62 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AFW-2U-05 | JK | 4/14/2023 | Y | | 31.52 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AFW-2U-06 | JK | 4/14/2023 | Y | | 48.43 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AGW-1L-11 | KM | 4/7/2023 | Y | | 100.40 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AGW-1M-09 | KM | 4/7/2023 | Y | | 74.23 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AGW-1U-06 | KM | 4/7/2023 | Y | | 41.90 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| B2L-11 | JK | 4/14/2023 | Y | | 97.58 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| B2M-07 | JK | 4/14/2023 | Y | | 59.24 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| B2M-09 | JK | 4/14/2023 | Y | | 59.76 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| B2U-06 | JK | 4/14/2023 | Y | | 40.10 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| C3-06 | JK | 4/14/2023 | Y | | 37.56 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| C3-07 | JK | 4/14/2023 | Y | | 60.41 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By:

Weather:

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---|---------------|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| C3-09 | JK | 4/14/2023 | Y | | 69.36 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-11 OB | JK | 4/21/2023 | Y | | 4.18 | P | FM | Y | Y | G | N | N | G | G | N | Y | G | N | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-11 SH | JK | 4/21/2023 | Y | | 16.41 | P | FM | Y | Y | G | N | N | G | G | N | Y | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-12 OB | JK | 5/12/2023 | Y | | 22.68 | P | FM | Y | Y | G | N | NA | G | G | N | Y | G | NA | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-12 SH | JK | 4/26/2023 | Y | | 49.18 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | Y | Y | 0.25 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-1 OB | JK | 4/7/2023 | Y | | 13.96 | P | FM | Y | Y | G | N | N | G | NA | Y | N | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-1 SH | JK | 4/7/2023 | Y | | 22.67 | P | FM | Y | Y | G | N | N | G | NA | Y | N | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-2 OB | JK | 4/26/2023 | Y | | 19.19 | P | FM | Y | Y | G | N | N | G | NA | N | N | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-2 SH | JK | 4/26/2023 | Y | | 41.34 | P | FM | Y | Y | G | N | N | G | NA | N | N | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-3 OB | JK | 4/14/2023 | Y | | 16.16 | P | FM | Y | Y | G | N | N | G | G | N | N | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-3 SH | KM | 4/14/2023 | Y | | 37.03 | P | FM | Y | Y | G | N | Y | G | G | N | N | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| CMW-4 OB | JK | 4/14/2023 | Y | | 7.33 | P | FM | Y | Y | G | N | Y | G | G | N | N | G | NA | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---|---------------|------------------|---------|------------------|----------------------|-------------|--|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| CMW-4 SH | JK | 4/14/2023 | Y | | 18.55 | P | FM | Y | Y | G | N | Y | G | G | N | N | G | Y | Y | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW5 OB | JK | 4/21/2023 | Y | | 7.55 | P | FM | Y | Y | G | N | Y | G | NA | N | N | G | N | N | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW-5 SH | JK | 4/21/2023 | Y | | 29.35 | P | FM | Y | Y | G | N | N | G | NA | N | N | G | Y | Y | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW-6 OB | JK | 4/21/2023 | Y | | 3.21 | P | FM | Y | Y | G | N | N | G | G | N | N | G | N | N | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW-6 SH | JK | 4/21/2023 | Y | | 19.69 | P | FM | Y | Y | G | N | N | G | G | Y | Y | G | Y | N | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW-7 OB | KM | 4/7/2023 | Y | | 4.86 | P | FM | Y | Y | G | N | N | G | G | NA | NA | G | Y | N | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW-7 SH | KM | 4/7/2023 | Y | | 22.75 | P | FM | Y | Y | G | N | Y | G | G | NA | Y | G | Y | Y | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW-8 OB | KM | 4/7/2023 | Y | | 3.35 | P | FM | Y | Y | G | N | N | G | G | NA | NA | G | Y | N | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW-8 SH | KM | 4/7/2023 | Y | | 11.72 | P | FM | Y | Y | G | N | N | G | G | NA | NA | G | Y | Y | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW-9 OB | JK | 4/21/2023 | Y | | 3.75 | P | FM | Y | Y | G | N | N | G | G | N | Y | G | N | N | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| CMW-9 SH | JK | 4/21/2023 | Y | | 12.59 | P | FM | Y | Y | G | N | N | G | G | N | N | G | Y | Y | N | |
| Notes: | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |
| D1L-11 | JK | 3/23/2023 | Y | | 106.00 | P | SU | Y | Y | P | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: Box encasing well detached from base | | | | | | | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---|---------------|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| D1M-07 | JK | 3/23/2023 | Y | | 72.15 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D1M-09 | JK | 3/23/2023 | Y | | 79.14 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D1U-04 | JK | 3/23/2023 | Y | | 25.70 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D1U-05 | JK | 3/23/2023 | Y | | 35.91 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D1U-06 | JK | 3/23/2023 | Y | | 50.50 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D2L-11 | JK | 4/21/2023 | Y | | 108.98 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D2M-07 | JK | 4/21/2023 | Y | | 68.36 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D2M-09 | JK | 4/21/2023 | Y | | 77.08 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D2U-04 | JK | 4/14/2023 | Y | | 22.11 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D2U-05 | JK | 4/14/2023 | Y | | 31.72 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| D2U-06 | JK | 4/14/2023 | Y | | 47.03 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | Y | 0.10 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| E6-04 | JK | 4/21/2023 | Y | | 19.66 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---------------|--|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| E6-05 | JK | 4/21/2023 | Y | | 29.62 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| E6-06 | JK | 4/21/2023 | Y | | 46.57 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| E6-07 | JK | 4/21/2023 | Y | | 68.55 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| E6-09 | JK | 4/21/2023 | Y | | 77.47 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| E6-11 | JK | 4/21/2023 | Y | | 104.38 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| F2L-11 | KM | 4/7/2023 | Y | | 125.52 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| F2M-06 | KM | 4/7/2023 | Y | | 65.97 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| F2M-07 | KM | 4/7/2023 | Y | | 88.93 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| F2M-09 | KM | 4/7/2023 | Y | | 96.61 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| F2U-02 | KM | 4/7/2023 | Y | | 28.20 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| F2U-04 | KM | 4/7/2023 | Y | | 44.18 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |
| F2U-05 | KM | 4/7/2023 | Y | | 52.51 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---------------|--|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| F4L-11 | JK | 3/23/2023 | Y | | 123.90 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F4M-06 | JK | 3/23/2023 | Y | | 65.59 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F4M-07 | JK | 3/23/2023 | Y | | 88.47 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F4M-09 | JK | 3/23/2023 | Y | | 95.91 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F4U-02 | JK | 3/23/2023 | Y | | 28.11 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F4U-04 | JK | 3/23/2023 | Y | | 43.95 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F6-04 | JK | 4/21/2023 | Y | | 37.74 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F6-05 | JK | 4/21/2023 | Y | | 35.17 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F6-06 | JK | 4/21/2023 | Y | | 61.57 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F6-07 | JK | 4/21/2023 | Y | | 80.93 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F6-09 | JK | 4/21/2023 | Y | | 89.78 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| F6-11 | JK | 4/21/2023 | Y | | 125.71 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---------------|--|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| G1-02 | JK | 4/26/2023 | Y | | 53.55 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | Y | 0.70 |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G1L-11 | JK | 4/26/2023 | Y | | 146.73 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G1M-06 | JK | 4/26/2023 | Y | | 90.48 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G1M-07 | JK | 4/26/2023 | Y | | 110.00 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G1M-09 | JK | 4/26/2023 | Y | | 118.90 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G1U-01 | JK | 4/26/2023 | Y | | 32.04 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G1U-04 | JK | 4/26/2023 | Y | | 65.38 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G6-01 | KM | 4/7/2023 | Y | | 22.28 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G6-02 | KM | 4/7/2023 | Y | | 46.71 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G6-04 | KM | 4/7/2023 | Y | | 58.97 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G6-05 | KM | 4/7/2023 | Y | | 66.99 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | NA | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G6-06 | KM | 4/7/2023 | Y | | 89.97 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---------------|--|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| G6-07 | KM | 4/7/2023 | Y | | 105.92 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G6-09 | KM | 4/7/2023 | Y | | 113.90 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| G6-11 | KM | 4/7/2023 | Y | | 143.08 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H2L-11 | JK | 3/23/2023 | Y | | 144.31 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H2M-05 | JK | 3/23/2023 | Y | | 73.00 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H2M-06 | JK | 3/23/2023 | Y | | 90.98 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H2M-09 | JK | 3/23/2023 | Y | | 116.96 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H2U-01 | JK | 3/23/2023 | Y | | 27.57 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H5-01 | KM | 4/7/2023 | Y | | 25.20 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H5-02 | KM | 4/7/2023 | Y | | 47.46 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H5-04 | KM | 4/7/2023 | Y | | 64.45 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H5-05 | KM | 4/7/2023 | Y | | 72.38 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By:

Weather:

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|--------------|--|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| H5-06 | KM | 4/7/2023 | Y | | 89.34 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H5-07 | KM | 4/7/2023 | Y | | 107.59 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H5-09 | KM | 4/7/2023 | Y | | 116.11 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| H5-11 | KM | 4/7/2023 | Y | | 155.62 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| I1-01 | JK | 4/14/2023 | Y | | 32.26 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| I1-02 | JK | 4/14/2023 | Y | | 53.86 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| I1-04 | JK | 4/14/2023 | Y | | 69.08 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| I1-05 | JK | 4/14/2023 | Y | | 77.95 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| I1-06 | JK | 4/14/2023 | Y | | 93.75 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| I1-07 | JK | 4/14/2023 | Y | | 114.34 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| I1-09 | JK | 4/14/2023 | Y | | 122.70 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |
| I1-11 | JK | 4/14/2023 | Y | | 157.44 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: | List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---|---------------|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| J2M-06 | JK | 4/14/2023 | Y | | 66.00 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J2M-09 | JK | 4/14/2023 | Y | | 94.47 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J2U-02 | JK | 4/14/2023 | Y | | 25.68 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J2U-04 | JK | 4/14/2023 | Y | | 38.57 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J2U-05 | JK | 4/14/2023 | Y | | 48.37 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J5L-11 | JK | 4/14/2023 | Y | | 124.71 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J5M-06 | JK | 4/14/2023 | Y | | 66.76 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J5M-07 | JK | 4/14/2023 | Y | | 86.60 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J5M-09 | JK | 4/14/2023 | Y | | 95.11 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J5U-02 | JK | 4/14/2023 | Y | | 25.68 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J5U-04 | JK | 4/14/2023 | Y | | 41.04 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J5U-05 | JK | 4/14/2023 | Y | | 49.32 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---|---------------|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| J6-02 | JK | 4/14/2023 | Y | | 21.31 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J6-04 | JK | 4/14/2023 | Y | | 36.67 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J6-05 | JK | 4/14/2023 | Y | | 44.12 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J6-06 | JK | 4/14/2023 | Y | | 60.56 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J6-07 | JK | 4/14/2023 | Y | | 81.30 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J6-09 | JK | 4/14/2023 | Y | | 91.62 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| J6-11 | JK | 4/14/2023 | Y | | 119.27 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| PMW-1L-11 | JK | 5/19/2023 | Y | | 111.51 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | N | Y | 1.38 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| PMW-1M-07 | JK | 5/12/2023 | Y | | 73.18 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| PMW-1M-09 | JK | 5/12/2023 | Y | | 82.52 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| PMW-1U-05 | JK | 5/12/2023 | Y | | 38.91 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | N | G | NA | N | Y | 0.12 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| PMW-1U-06 | JK | 5/12/2023 | Y | | 55.92 | S | FM | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | N | Y | 1.45 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|--|---------------|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| OMW-1 | JK | 4/14/2023 | Y | | 9.21 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-10R | JK | 5/12/2023 | Y | | 16.39 | P | FM | Y | Y | G | N | N | G | NA | N | N | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-11R | JK | 3/23/2023 | Y | | 13.51 | P | FM | Y | Y | G | N | Y | G | G | N | N | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-12R | JK | 3/23/2023 | Y | | 6.70 | P | FM | Y | Y | G | N | N | G | G | N | T | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-13R | JK | 3/23/2023 | Y | | 15.51 | P | SU | Y | Y | G | NA | NA | NA | G | NA | NA | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-14R | JK | 3/23/2023 | Y | | 13.31 | P | FM | Y | Y | G | N | Y | G | NA | Y | N | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-15 | JK | 3/23/2023 | Y | | 8.42 | P | SU | Y | Y | G | NA | NA | NA | P | NA | NA | G | Y | Y | N | |
| Notes: Concrete base broken into several large chunks List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-16R | JK | 3/23/2023 | Y | | 8.87 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-2 | JK | 4/14/2023 | Y | | 7.02 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-4R | JK | 4/14/2023 | Y | | 16.46 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-5R | JK | 4/14/2023 | Y | | 14.30 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-6 | JK | 4/14/2023 | Y | | 8.38 | P | FM | Y | Y | G | N | N | G | G | Y | N | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

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HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---|---------------|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| OMW-7 | JK | 4/14/2023 | Y | | 14.55 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-8R | JK | 4/14/2023 | Y | | 10.93 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-9 | JK | 5/12/2023 | Y | | 14.51 | P | FM | Y | Y | G | N | N | G | NA | N | Y | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| SC-2 | KM | 4/6/2023 | Y | | 34.70 | S | SU | Y | NA | G | NA | NA | NA | NA | NA | NA | NA | NA | NA | Y | 1.15 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| SC-3 | KM | 4/6/2023 | Y | | 45.30 | S | SU | Y | NA | G | NA | NA | NA | NA | NA | NA | NA | NA | NA | Y | 2.00 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| SC-4 | KM | 4/6/2023 | Y | | 49.25 | S | SU | Y | NA | G | NA | NA | NA | NA | NA | NA | NA | NA | NA | Y | 1.40 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| SC-5 | KM | 4/6/2023 | Y | | 32.55 | S | SU | Y | NA | G | NA | NA | NA | NA | NA | NA | NA | NA | NA | Y | 0.02 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| SC-6 | KM | 4/6/2023 | Y | | 39.25 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | NA | NA | NA | Y | 0.25 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| Wet Well C | JK | 4/14/2023 | Y | | 18.93 | S | FM | Y | NA | G | N | NA | G | G | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| Wet Well D | JK | 5/19/2023 | Y | | 22.56 | S | FM | Y | NA | G | N | NA | NA | NA | NA | N | G | NA | NA | Y | 0.30 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OEW-1 | JK | 5/12/2023 | Y | | 29.76 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OEW-2 | JK | 5/12/2023 | Y | | 29.45 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |



Glenn & Springs Holdings, Inc.

A subsidiary of Occidental Petroleum

HP Well Inspection

Date: 7/19/2022

Inspected By: _____

Weather: _____

| Well Number: | Inspected By: | Inspection Date: | Access: | Installed Depth: | Sounded Depth: (BGS) | Location 1: | Type 2: | Exterior ID: | Interior ID: | Condition of Well Casting: | FM - Surface Water: | FM - Water in Curb Box: | Condition of Curb Box: | Concrete Base: | Gasket: | Bolts: | Lid: | J-plug or Slip Cap: | Locks (NA if inside plant) | NAPL Present: | NAPL Thickness: |
|---|---------------|------------------|---------|------------------|----------------------|-------------|---------|--------------|--------------|----------------------------|---------------------|-------------------------|------------------------|----------------|---------|--------|------|---------------------|----------------------------|---------------|-----------------|
| OEW-3 | JK | 5/12/2023 | Y | | 37.17 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OEW-4 | JK | 5/12/2023 | Y | | 43.34 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OEW-5 | JK | 5/12/2023 | Y | | 34.56 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | N | Y | 0.08 |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OEW-6 | JK | 5/12/2023 | Y | | 21.78 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OEW-7 | JK | 5/12/2023 | Y | | 25.37 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | N | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AGW-1M-07 | JK | 4/14/2023 | Y | | 64.46 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| AGW-1U-05 | JK | 4/14/2023 | Y | | 25.85 | S | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| F4U-05 | JK | 4/21/2023 | Y | | 52.39 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| H2U-02 | JK | 3/23/2023 | Y | | 47.99 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | NA | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |
| OMW-3 | JK | 4/14/2023 | Y | | 13.57 | P | SU | Y | Y | G | NA | NA | NA | NA | NA | NA | G | Y | Y | N | |
| Notes: List Corrective Actions Required to Repair Deficiencies: | | | | | | | | | | | | | | | | | | | | | |

COMMENTS:

