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Periodic Review Report

April 30, 2021 to April 30, 2022
NYSDEC Site Number C828126

Location:

Volunteers of America – Back Lot Site
214 Lake Avenue and 18 Ambrose Street
Rochester, Monroe County, New York

Prepared for:

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June 15, 2022



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1.0 EXECUTIVE SUMMARY

1.1 BACKGROUND AND REMEDIAL HISTORY

Bergmann is pleased to submit this Periodic Review Report (PRR) on behalf of Volunteers of America of Upstate New York, Inc. (VOA) for the VOA back lot site located at 214 Lake Avenue and 18 Ambrose Street, City of Rochester, Monroe County, New York (Site). The Site (site code C828126) is enrolled in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). Bergmann is retained by VOA for monitoring and reporting requirements in accordance with the Site Management Plan (SMP).

Based upon the results documented in the Remedial Investigation Report (RIR), dated January 4, 2012, the types of contamination at the site that were identified that required remediation included:

- Metals in overburden groundwater are the Contaminants of Concern (COC) site-wide;
- Metals and Semi-Volatile Organic Compounds (SVOCs) are the COC in historic fill materials site-wide; and
- Volatile Organic Compounds (VOCs) in a localized (hot spot) in an isolated area of historic fill materials.

Remedial actions completed at the site in accordance with the NYSDEC approved Alternatives Analysis Report/Remedial Action Work Plan (April 4, 2016) and the NYSDEC Decision Document (Mach 31, 2016) include the following cleanup tasks.

- Site clearing/grubbing, waste characterization, landfill approvals, excavation and transportation for disposal of source area (hot spot) contaminated soils, backfilling the source area excavation, installation of the storm water management system from May 2016 through mid-June 2016.
- Site grading, construction of Site cover system (excluding Haidt Place), installation of fencing, and sealing of cracks in existing roadway and parking areas from mid-June through September 2016.
- Excavation of soil/fill material along the right-of-way of Haidt Place and the installation of a cover system from March through September 2017.
- Prepared a Final Engineering Report (FER) that documents the cleanup and a SMP for long term management of remaining contamination as required by the Environmental Easement;
- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site;
- Periodic certification of the institutional and engineering controls (on-going); and,
- Implementation of a long-term groundwater monitoring plan (on-going).

The site was remediated under the New York State Brownfield Cleanup Program (NYS BCP) administered by the NYSDEC as presented in the approved Final Engineering Report (FER) and Site Management Plan (SMP) dated, December 28, 2017. A SMP was prepared for the Site for long-term management of remaining contamination as required by the Environmental Easement. In accordance with the SMP and the requirements in NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation, dated May 3, 2010, and the guidelines provided by NYSDEC the following required work detailed in the SMP was completed during the reporting period from April 30, 2021, through April 30, 2022.



- An annual inspection was conducted of all Engineering controls (EC) and Institutional controls (IC) with reporting on April 27, 2022.
- Annual groundwater monitoring and reporting of sample results from site monitoring wells was completed as one (1) groundwater sampling event during 2022 in accordance with NYSDEC letter dated June 3, 2020, that allows for sample frequency reduction from quarterly to annual, for a two (2) year duration (this being the second year). The groundwater laboratory data package was also allowed to be changed from Category B to Category A. The Site Management Plan Cover page was modified to reflect these changes. Field work for annual groundwater monitoring and sampling for the 2021/2022 sampling event was completed on April 27, 2022.
- Currently, VOA will require a re-petition to the NYSDEC to continue annual monitoring or reduce/terminate sampling. No annual or other agreed upon duration groundwater monitoring events have been scheduled for the 2022/2023 calendar year, or as of the submittal of this report.

1.2 EFFECTIVENESS OF THE REMEDIAL PROGRAM

Progress made during the reporting period toward meeting the remedial objectives for the site include continued monitoring of groundwater and maintenance of the institutional and engineering controls in accordance with the SMP. Monitoring data from the work completed to date shows that the remedial program is currently meeting the remedial objectives for the Site during the last two and a half (2.5) years. A letter NYSDEC dated June 3rd, 2020, states that it accepts Bergmann's request to reduce from quarterly to annually. Monitoring data includes an annual monitoring event to be completed every year that covers a 12-month duration (April 2021 to April 2022), as stated in the NYSDEC letter dated June 3, 2020).

1.3 COMPLIANCE

Areas and conditions of the Site were not identified as being currently out of compliance with the SMP requirements. The requirements dictated in the SMP regarding IC/EC's and the Monitoring Plan were met during the reporting period. An Annual Maintenance Cap Inspection was completed on June 10, 2022. Repairs to the cover system are still pending and repairs will be completed by the end of 2022. Repairs presented in the Annual Maintenance Inspection Report should be made before the end of 2022 to ensure continued integrity of the cover system.

1.4 RECOMMENDATIONS

Residual impacts to groundwater quality at the Site are considered low in concentration, below applicable part 703.5 groundwater standards/guidance values, and has been documented in 2018, 2019, 2020, 2022 post-remediation groundwater samples to remain consistent or decreasing over time Further discussion with NYSDEC will be required to determine if groundwater sampling events can be terminated or reduced further.

Sealing repairs to limited areas of the Type 2 cover system are required during 2022 based on the results of the annual EC/IC inspection. The area of Type 2 cover system was installed in 1998 and is the roadway along Haidt Place that runs north south behind the VOA Children's Center. Monitoring well MW-101 needs repair for the concrete surface seal and steel well box.



2.0 SITE OVERVIEW

VOA entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC on June 15, 2005, to investigate and remediate a 3.055-acre property located at 18 Ambrose Street (214 Lake Avenue Rear Lot), City of Rochester, Monroe County, New York (Site). The property was remediated to enable restricted-residential use. The BCA was amended on May 31, 2016 and September 27, 2017. The Site is in the City of Rochester, County of Monroe, New York and is identified as Tax Lot #105.60-2-59.003 (18 Ambrose Street) on the City of Rochester Tax Map, which constitutes 1.997 acres and comprises two-thirds of the Site. A portion of Tax Lot #105.60-2-1.002 (214 Lake Avenue), which constitutes 1.058 acres is the balance one-third of the Site. The Site is 3.055-acre area bounded by commercial properties (contractor's yard) to the north Ambrose Street to the south, a contractor's yard to the east and beyond is the Genesee River Gorge. The VOA Human Service Complex property adjoins the Site to the west (see Figure 1 – Well Location Map). The boundaries of the Site are depicted on Figure 1.

The majority of the Site is located at 18 Ambrose Street, west of the former Raeco Oil Superfund Site, and south of a contractor's equipment storage yard, associated building, and a Monroe County right-of-way to the Pure Waters Tunnel Structure 41. The Site is comprised of portions of two (2) tax parcels of land, which are referred to as the eastern portion of Parcel A and all of Parcel B. The majority of the Site is largely undeveloped, and the western portion of the Site is improved with parking lot area and roadway.

The Site was at one time the southernmost portion of RG&E's approximately 20-plus-acre parcel known as the Ambrose Street or Lake Avenue Coal Yard. Part of former Ambrose Street Coal Yard that is currently, VOA's property was used for surface coal storage from approximately 1918 through the mid-1960's. Subsequent to the use of the property for coal storage, the northeast portion of the Site was used by automobile dealerships from at least 1971 through 1997 for parking/storage of vehicles. Kaplan Container, a drum cleaning company, was also present on this portion of the Site. Prior to 1918, portions of the property had residential structures, which appear to have been demolished on Site into a large deep ravine, which traverses approximately through the middle of the Site, from South to North. This large ravine was historically filled. Railroad tracks were then constructed on top of the historic fill to allow for the transport of coal from existing stockpiles.

Potential contaminants of concern (COC) at the site include metals and SVOCs based on the Remedial Investigation Report (RIR). Volatile Organic Compounds (VOCs) are also included as a COC based on the past presence of levels of VOCs on the off-site VOA Human Services Complex at 214 Lake Avenue. A bedrock groundwater investigation was included as part of the RI scope of work to confirm that off-site VOCs in groundwater had not impacted the Site's groundwater at levels that would require remediation. Low levels of VOCs have been detected in limited groundwater samples in Site monitoring wells. The primary COCs identified in Site media include heavy metals and SVOCs in soil and groundwater systems.

Elevated levels of heavy metal concentrations have been detected Site-wide in samples from the overburden groundwater and to a lesser extent in the bedrock groundwater. The overlying historic fill soils are the source of metals at the Site. Groundwater monitoring of the low-level impacts for metals in groundwater at the Site is part of the selected remedial alternative. The physical impacts to groundwater are partially suppressed by the cover system and storm water management sewer systems, which reduce the infiltration of surface water runoff into the subsurface at the Site, thus reducing further impacts to groundwater. Engineering Controls (EC), along with Institutional Controls (ICs) and Environmental Easements (EE), detailed in the SMP, are implemented to provide protection of human health and the environment. Groundwater quality monitoring was reduced from a five (5) year period on Quarterly basis to annually – see attached letter from NYSDEC dated June 3rd, 2020.



Bergmann submitted a Site Management Modification Request to the NYSDEC and NYSDOH on May 8th, 2020. A response letter was received from the NYSDEC on June 3rd, 2020, stating that it denies Bergmann's request to discontinue sampling events. The response letter did approve a reduction in sampling frequency from quarterly to annually, for a temporary duration of two (2) years. In addition to the sampling frequency reduction, the groundwater laboratory data package can be changed from a Category B to a Category A. Refer to Appendix 5 - NYSDEC Response Letter - Site Management Modification Request June 3, 2020.

Monitoring data includes an annual monitoring event to be completed every year that covers a 12-month duration (April 2021 to April 2022). Methods and procedures for post-remediation groundwater monitoring are detailed in the SMP.



3.0 EVALUATE REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Range of RCRA 8 Metals Levels 2009 RI Event	Range of levels at end of 2018	Range of levels at end of 2019	Range of levels at end of 2020	Range of levels 2022	703.5 GA Groundwater Standards
Arsenic 13.5 ppb to 160 ppb	Non-detect (ND)	ND	ND to 12.2 ppb	ND to 160 ppb	25 ppb
Barium 320 ppb to 1,840 ppb	ND to 131 ppb	ND to 277 ppb	ND to 484 ppb	ND to 1,370 ppb	1,000 ppb
Cadmium 5.6 ppb to 6.2 ppb	ND	ND to 10.8 ppb	ND	ND to 17.5 ppb	5 ppb
Chromium 21.5 ppb to 319 ppb	ND	ND	ND to 34.4 ppb	ND to 319 ppb	50 ppb
Lead 5 ppb to 6,600 ppb	ND to 11.9 ppb	ND to 55.4 ppb	13.5 to 38.5 ppb	ND to 4,230 ppb	25 ppb
Mercury 0.93 ppb to 193 ppb	ND	ND to 0.363 ppb	0.117 to 0.313 ppb	ND to 29.2 ppb	0.7 ppb
Selenium 6 ppb to 21.8 ppb	ND to 10.9 ppb	ND	ND	ND to 21.8 ppb	10 ppb
Silver 2.4 ppb to 16 ppb	ND	ND	ND to 5.13 J	ND	50 ppb

It appears that the levels of metals detected during the 2009 RI event have increased based on 2-years of post-remediation annual groundwater monitoring. This trend of relative increase of metals is documented in the 2021 annual monitoring report that was submitted to NYSDEC. Results for post-remediation groundwater monitoring from 2018 through 2022 indicate a substantial reduction for RCRA Metals below 6 NYCRR Part 703.5 Class GA groundwater standards in groundwater quality as compared to the 2009 RI event elevated levels as noted below.

In addition to the reduction of heavy metals from 2009 levels, the following trends for 2022 groundwater quality results support the performance and effectiveness of the Remedy:

- Trend for periodic low levels and lack of frequency of detections of SVOCs with concentrations below 703.5 groundwater quality standards or at levels that slightly exceed the standards;

Low levels of VOCs previously detected in groundwater samples during the RI event have been reduced to levels that are non-detect (ND) or low levels below 2009 RI event levels and NYSDEC groundwater standards, with the exception of an exceedance of Methyl tert-butyl Ether (MTBE) at MWR-102 with a concentration of 14.8 ppb, exceeding the groundwater standard of 10 ppb.

- Levels of antimony, cadmium, copper, lead, and nickel are metals that exceed part 703.5 groundwater standards but are reduced from elevated 2009 RI event levels.
- Iron levels increased at locations MW-102, 102R, and 106R during the 2022 sampling event, exceeding the 2009 RI Event and groundwater standards.
- Manganese levels increased at locations 101R, and 102, 106R, exceeding the 2009 RI Event and groundwater standard.
- Mercury levels increased, exceeding the 2009 RI event and groundwater standards at locations MWR-106, MW-101, and MWR-103.
- Cadmium increased at levels exceeding the 2009 RI event and groundwater standards at monitoring well locations MW-105 and MWR-106
- Levels of selenium increased at levels exceeding 2009 RI event and part 703.5 groundwater standards.



- Levels of barium, and chromium decreased or were non-detect (ND) at all monitoring well locations, except for MWR-106,
- Levels of sodium increased at levels exceeding the 2009 RI event levels and groundwater standards for all monitoring well locations except MWR-101 and MWR-106.
- Levels of arsenic increased to levels exceeding groundwater standards at MW-101, MW-105, MWR-106, and MW-107. MW-101, MW-105, and MW-107 experienced a decrease in arsenic levels between the 2009 sampling event and 2022 sampling event, at levels still in exceedance of the part 703.5 groundwater standards.

Levels of arsenic at MWR-106 increased from 44 ppb in 2009 to 109 ppb in 2022, exceeding the groundwater standard of 25 ppb.

- Groundwater quality results indicate the effectiveness of the cover system and storm water management sewer system that suppress impacts to groundwater by reducing infiltration of surface water runoff into the subsurface at the Site, thus reducing further impacts to groundwater.

The results of the 2022 Annual Engineering IC/EC Inspection certifies that the condition of the EC (cover system) and IC meets the objectives of the remedy for protectiveness of human health in the environment. Continued implementation of the IC, EC and EE detailed in the SMP provides protection of human health and the environment.



4.0 IC/EC COMPLIANCE

4.1 INSTITUTIONAL CONTROLS (IC)

The IC boundaries are the same as the BCP Site boundaries as shown on Figure 1. The following IC are included in the SMP for the Site:

- The property may be used for Restricted-Residential, Commercial, or Industrial uses;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the New York State Department of Health (NSDOH) or the Monroe County Health Department to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easements.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries (entire Site) noted on Figure 1. Areas of soil vapor concern and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited.

The site-wide inspection in 2022 determined that ICs have been complied with including compliance with the EC and the SMP. There are no new conclusions or recommendations for change of IC at this time, see Annual Inspection Report for IC/EC in Appendix 1 – Annual Inspection Report. The NYSDEC IC/EC certification form is presented in Appendix 2 – NYSDEC IC/EC Certification Form.

4.2 ENGINEERING CONTROLS (EC)

The EC at the site is the site-wide cover system. The cover system is a permanent EC and the quality and integrity of this system will be maintained and inspected in accordance with maintenance items in the Maintenance Plan and defined inspection intervals in accordance with the SMP in perpetuity. The EC is in compliance based on the 2022 Annual Inspection Report of IC/EC presented in Appendix 1 and EC/IC are certified, see Appendix 2.



5.0 MONITORING PLAN COMPLIANCE

5.1 MONITORING PLAN COMPONENTS

Monitoring and laboratory analyses were completed in accordance with the SMP. A summary of the routine monitoring and analyses is provided in the table below

Monitoring Program	Frequency	Monitored	Matrix	Analysis
Groundwater	Annual through 2022 as approved by NYSDEC and NYSDOH (June 3, 2020)	MWR-101, MW-101, MWR-102, MW-102, MW-103, MW-105, MWR-106, and MW-107	Groundwater	TCL VOCs & SVOCs, TAL Metals
Site Cover / Property Use	Annually until otherwise approved by NYSDEC and NYSDOH	Inspection of Site Cover Condition, Property Use and Environmental Easements	Not Applicable	Not Applicable

5.2 GROUNDWATER MONITORING DATA

Groundwater monitoring was performed annually during the reporting period using low flow sampling methodology in accordance with the SMP. Previously, post-remediation groundwater sampling included eight (8) rounds of sampling and reporting to NYSDEC from 2018 and 2019 in addition to the original two (2) rounds of sampling included in the FER, as well as two (2) annual sampling events completed during the end of 2020 and beginning of 2022. The post-remediation 2022 annual groundwater sampling event (initial annual event) during the reporting period was completed in April 2022 on the following date:

- April 27, 2022 – Full data submitted to NYSDEC as part of this PRR

5.3 WELL MAINTENANCE

Bergmann performs annual groundwater sampling at the Site as required in the SMP, or until change of sampling frequency is approved by NYSDEC. In 2022, the existing monitoring wells were accessible for the annual sampling event. Monitoring and sampling at the Site are ongoing in accordance with the Site Management Plan (SMP). The integrity of the monitoring wells at the Site do not appear to be compromised. Monitoring wells in the sampling network appear to be in good condition based on observations during the annual field sampling. It is noted that the concrete surface seal was observed to be cracked on the surface of MW-101 and the steel well box is damaged. However, the cracked surface seal/damaged steel well box does not appear to impact water quality in this well. The surface seal/steel well box is recommended for replacement in the 2021 calendar year, see recommendations in Appendix 1. Groundwater monitoring well conditions and field observations are summarized in the table below.

Well Number	Type of Well	Location of Well	Annual Sampling
MW-101	Overburden	Down - gradient	Cracked Surface Seal/damaged well box



Well Number	Type of Well	Location of Well	Annual Sampling
MW-101R	Bedrock	Down - gradient	Good
MW-102	Overburden	Cross - gradient	Good
MW-102R	Overburden	Down - gradient	Good
MW-103	Overburden	Down - gradient	Good
MW-105	Overburden	Up - gradient	Good
MWR-106	Bedrock	Up - gradient	Good
MW-107	Overburden	Cross - gradient	Good

5.4 GROUNDWATER FIELD MONITORING AND SAMPLING ACTIVITIES

Groundwater measurements and sampling activities were conducted in accordance with Section 4.0 of the SMP. The depths to groundwater for monitoring wells are measured and recorded on a quarterly basis to track site-wide changes in the water table elevation. The sample collection procedures were generally consistent with Section 4.4.1 in the SMP. Groundwater samples were collected from monitoring wells after each well was gauged and purged of standing water via hand bailing methodology. It is noted that low flow purging and sampling methods did not work in previous attempts during historic sampling events due to the depth of the wells. Field readings were collected via YSI Quatro at each monitoring well location for pH, temperature, specific conductance, dissolved oxygen (DO), oxidation reduction potential (ORP), turbidity, pH, and temperature parameters. Wells were purged until field readings for groundwater quality indicator parameters stabilized for at least three (3) consecutive readings for the following parameters:

- Water Level Drawdown <0.3 feet
- Temperature - +/- 3%
- pH - +/- 0.1 unit
- Dissolved Oxygen - +/-10%
- Specific Conductance - +/-3%
- Turbidity - +/-10% for values greater than 1 NTU

Purge water from wells was discharged onto the asphalt cover system near each well, as detailed in the SMP. Groundwater samples for the wells were collected directly from the pump discharge line into vials and containers provided by the analytical laboratory. Samples were chemically and thermally preserved as specified by the methodology and/or laboratory and placed in a designated cooler, pre-chilled with ice. Samples were recorded on a chain-of-custody and delivered to the Paradigm Environmental Services, Inc. of Rochester, New York for analysis, an Environmental Laboratory Accreditation Program (ELAP) certified laboratory. Duplicate samples and a trip blank were also collected during the event for quality assurance/quality control (QA/QC) purposes.

Deviations from the monitoring plan included the following items:

- Deviation in sampling technique was noted. Each monitoring well was gauged and purged of standing water via Hand bailing rather than the approved low flow purging technique.



5.5 SITE GROUNDWATER ELEVATIONS AND FLOW CHARACTERIZATION

The depth to water measurements in the overburden groundwater monitoring wells was measured and water table maps were calculated from elevations that present the approximate groundwater flow directions for 2022. Six (6) overburden monitoring wells were part of the current monitoring well network, as shown on Figure 1. The 2022 overburden monitoring wells monitored included six (6) monitoring wells. Depth to water measurements were recorded during the annual monitoring event on April 27, 2022. The depth to water measurements and calculated elevations are presented in Table 1 – 2022 Groundwater Elevations Summary.

The groundwater contours generally indicate an overburden groundwater flow direction in a northeast direction in the area of the buried ravine in the central area of the Site indicated by a depression in the contour lines. The following is a summary of depth to the water table and overburden groundwater flow characterization for the April 27, 2022 sampling event.

Annual 2022 Groundwater Sampling Event

Water level data for this and previous monitoring events are summarized in Table 1 – Groundwater elevations. In general, water levels measured during the April 27, 2022, annual event were approximately 0.19 feet lower than those measured during the 2020 Annual Groundwater Monitoring Event (June 11, 2020). However, all measurements were generally within the range of normal anticipated seasonal fluctuation.

A Water Table Map was prepared using groundwater elevations; see Figure 2 – Water Table Map (overburden) April 27, 2022. As indicated on Figure 2, groundwater flow in the overburden groundwater table was toward the east from the west side of the Site and towards the west from the east side of the Site. It also appears that there is a northern flow component within the former ravine. The controlling subsurface feature is the former filled ravine that is located below the central area of the Site. The configuration of the groundwater contours is similar to the configuration presented in 2020 Annual Events and RI Figure 6 located in the figure section of this report.



6.0 MONITORING WELL GROUNDWATER ANALYSIS SUMMARY

Groundwater analytical sample results from each monitoring well are compared to NYSDEC 703.5 Class GA groundwater standards and to concentrations from the baseline July 2009 RI event, presented in Appendix 3 – RI Summary Tables for Groundwater Sample Results. Groundwater analytical laboratory reports are presented in Appendix 4 - Laboratory Results. These results are summarized below for each of the 2022 annual monitoring events as follows:

2022 Annual Groundwater Analytical Summary

Laboratory results for the groundwater samples analyzed are summarized below for Metals and SVOCs that are COCs. VOCs were also analyzed and summarized in the following section. The results by monitoring well are compared to NYSDEC 703.5 groundwater standards and to concentrations from the RI and 2020 Annual Event.

Metals

The 2022 results for metals are similar in comparison to the 2020 annual event and 2009 initial sampling event as noted below for samples from each monitoring well as summarized in Table 2 – Groundwater Sample Analysis Summary – Metals.

MW-101

Metals	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Sodium	20,000	125,000	176,000	299,000
Iron	300	140,000	11,810	30,900
Arsenic	25	144	9.32	27.1
Lead	25	14,100	<10ND	914
Mercury	0.7	1.87	<0.2ND	40.7

The April 27, 2022, results are compared to the previous results from June 11, 2020. Levels of metals indicate an increase in concentration for four (4) metals. Sodium levels increased from 176,000 ppb to 299,000 ppb. The sodium concentration exceeds the groundwater standard of 20,000 ppb.

Iron with a concentration of 30,900 ppb increased from 11,810 ppb in the 2020 annual sample event and exceeds the groundwater standard of 300 ppb.

Arsenic concentrations increased from 9.32 ppb in 2020 to 27.1 ppb in 2022. The concentration of arsenic exceeds the groundwater standard of 25 ppb.

Lead concentration increased from <10ND ppb in the 2020 Annual to 914 ppb in 2022. The concentration of lead exceeds the groundwater standard of 25 ppb.

Mercury concentration increased from <0.2 ND ppb during the 2020 Annual Event to 40.7 ppb during the 2022 Annual Event and is above the groundwater standard of 0.7 ppb.

Results for other metals are below groundwater standards.



The 2022 Annual Groundwater Sampling event marks second annual event of groundwater monitoring for a total of four and a half (4.5) years of post-remediation groundwater monitoring. In summary, metals concentrations are lower than the 2009 RI event, except for sodium. The levels of sodium, iron, arsenic, lead, and mercury exceeded the groundwater standard, see Table 2.

MWR-101

Metals	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Sodium	20,000	336,000	158,000	297,000
Calcium	-	222,000	5,540	158,000
Arsenic	25	<10ND	9.10J	7.75
Iron	300	220	1,026	3,630
Lead	25	5B	13.5	26.1
Manganese	300	78	15.8	686
Mercury	0.7	1.87	<0.2ND	40.7

Results from MWR-101 indicates a decrease in Arsenic from 9.10J in 2020 to 7.75 ppb in 2022. This concentration is below the groundwater standard of 25 ppb.

Calcium had a major increase in concentration, from 5,540 ppb during the 2020 Annual Event to 158,000 ppb in 2022.

Sodium levels increased from 158,000 ppb to 297,000 ppb. The sodium concentration exceeds the groundwater standard of 20,000 ppb.

Results from MWR-101 indicate an increase of Iron from 1,026 ppb in the 2020 Annual Event to 3,630 ppb in 2022. The iron concentration exceeds the groundwater standard of 300 ppb.

The level of lead increased from 13.5 ppb to 26.1 ppb during the 2022 Annual Event and is above the groundwater standard of 25 ppb.

The level of manganese increased from 15.8 ppb in the 2020 sampling event to 686 ppb in the 2022 Annual event and therefore exceeds the standard of 300 ppb.

The level of mercury increased from 0.313 ppb in the 2020 sampling event to 0.765 ppb during the 2022 event. This concentration of mercury exceeds the groundwater standard of 0.7 ppb.

The level of Selenium remained at ND.

In general, 2022 Annual monitoring levels are lower than detected during the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event. In summary, metals concentrations are lower than the 2009 RI event. The levels of Iron, Lead, Manganese, Mercury, and Sodium exceeded the groundwater standard, see Table 2.

MW-102



Metals	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Cadmium	5	0.50B	<5ND	9.34
Lead	25	109	<10ND	54.4
Manganese	300	1,120	1,250	2,440
Selenium	10	1.5ND	<20ND	43.8
Sodium	20,000	499,100	1,860,000	2,330,000

Results from MW-102 indicate an increase of Arsenic from 13.5 ppb in 2009 to 20.2 ppb in 2022, which is below the groundwater standard of 25 ppb.

The level of Barium increased from 484 ppb to 839 ppb which is below the groundwater standard of 1,000 ppb.

The levels of cadmium increased from <5ND ppb during the 2020 Event to 9.34 ppb, exceeding the groundwater standard of 5 ppb.

The levels of calcium increased from 698,000 ppb to 766,000 ppb.

The levels of Iron increased from 10,900 ppb in 2020 to 56,800 ppb in 2022, exceeding the groundwater standards of 300 ppb.

The levels of lead increased from <10ND ppb to 54.4 ppb, exceeding the groundwater standards of 25 ppb.

The levels of manganese increased from 1,250 ppb to 2,440 ppb which exceeds the standard of 300 ppb.

The levels of mercury increased from <0.2 ND to 0.116 ppb, which are below the groundwater standard of 0.7 ppb.

Levels of Selenium increased from non-detect in 2020, to 43.8 ppb, exceeding the groundwater standard of 10 ppb.

The levels of silver increased from non-detect, to 42 ppb, below the groundwater standard of 50 ppb.

The levels of sodium increased from 1,860,000 ppb in 2020, to 2,330,000 ppb in 2022, exceeding the groundwater standard of 20,000 ppb.

Overall, levels of metals detected have increased from the 2020 annual event and are significantly above levels detected during the 2009 RI event. Levels of cadmium, iron, lead, manganese, mercury, selenium, and sodium exceed the groundwater standards, see Table 2.



MWR-102

Metals	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Iron	300	1,300	1,410	2,810
Manganese	300	14B	102	247
Selenium	10	35ND	<20ND	19.5
Sodium	20,000	102,000	375,000	326,000

Levels of metals indicate an overall slight increase in concentrations. The levels of barium increased from 71.2J to 97.6 ppb, below the groundwater standard of 1,000 ppb.

The level of iron increased from 1,410 ppb in 2020, to 2,810 ppb in 2022, exceeding the groundwater standard of 300 ppb.

The level of manganese increased from 14B ppb in 2009 to 247 ppb during the 2022 sampling event and is below the groundwater standard of 300 ppb.

The level of selenium increased to 19.5 ppb and is in exceedance of the standard of 10 ppb.

The level of sodium decreased from 375,000 ppb to 326,000 ppb for this event and exceeds the standard of 20,000 ppb.

Results for other metals are below groundwater standards. Overall, levels of metals detected increased. In summary, metals concentrations are lower than the 2009 RI event, except for the following metals: aluminum, calcium, iron, magnesium, potassium, and sodium. The levels of Iron and Sodium exceeded the groundwater standards, see Table 2.

MW-103

Metals	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Copper	200	8,840	<20ND	270
Iron	300	80,500	1,260	7,960
Mercury	0.7	195	<0.2ND	506
Sodium	20,000	188,000	227,000	306,000

Levels of metals increased in concentrations. The level of Barium in this event increased from 262 ppb in 2020 to 348 ppb, below the groundwater standard of 1,000 ppb.

Copper increased from <20ND ppb in 2020 Annual Event to 270 ppb in 2022 Sampling Event, exceeding the groundwater standard of 200 ppb.

Iron increased with a concentration of 1,260 ppb to 7,960 ppb in this event exceeds the groundwater standard of 300 ppb.

Levels of Mercury increased from <0.2 ND to 506 ppb, exceeding the groundwater standard of 0.7 ppb.



Levels of Sodium increased from 227,000 ppb to 306,000 ppb, exceeding the groundwater standard of 20,000 ppb.

Results for other metals are below groundwater standards. In summary, metals concentrations are lower than the 2009 RI event, except for the following metals: mercury and sodium. The levels of copper, iron, mercury, and sodium exceeded the groundwater standards, see Table 2.

MW-105

Metals	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Cadmium	5	3.75B	<5ND	7.08
Arsenic	25	102	<10ND	48
Chromium	50	177	<10ND	77.3
Copper	200	240	<40ND	88.3
Iron	300	210,000	<100ND	102,000
Manganese	300	3,810	44.2	2,070
Selenium	10	<20ND	<20ND	18.7
Sodium	20,000	58,700	93,640	199,000

Results indicates that cadmium levels have increased from <5ND in 2020, to 7.08 ppb in 2022, exceeding the groundwater standard of 5 ppb.

The level of Arsenic increased from <10ND in 2020 to 48 ppb in 2022, exceeding the groundwater standard of 25 ppb.

The level chromium has increased from <10ND to 77.3 ppb, exceeding the groundwater standard of 50 ppb.

Levels of copper increased from <40ND to 88.3 ppb, below the groundwater standard of 200 ppb.

Levels of iron increased from <100ND in 2020, to 102,000 ppb in 2022, exceeding the standard of 300 ppb.

Levels of manganese increased from 44.2 ppb in 2020, to 2,070 ppb in 2022, exceeding the standard of 300 ppb.

Levels of selenium increased from <20ND in 2020, to 18.7 ppb in 2022, exceeding the standard of 10 ppb.

Levels of sodium increased from 93,640 ppb in 2020, to 199,000 ppb in 2022, exceeding the groundwater standard of 20,000 ppb.

Overall, the levels of metals during this event are significantly lower compared to the 2009 RI event. The types of metals detected have decreased as compared to the 2009 RI event. The levels of metals have increased since the 2020 Annual Groundwater Monitoring event. The level of Sodium is significantly higher than the 2009 RI event. In summary, metals concentrations are lower than the 2009 RI event, except for Sodium and Cadmium. The level of Sodium exceeded the groundwater standards, see Table 2.



MWR-106

Metals	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Arsenic	25	44	8.44J	109
Antimony	3	9B	<60ND	39.8
Barium	1,000	790	192	1,610
Cadmium	5	4.5B	<5ND	17.5
Chromium	50	118	<10ND	192
Copper	200	1,040	<20ND	1,430
Iron	300	60,000	6,310	173,000
Lead	25	2,010	55.4	2,900
Manganese	300	1,690	472	3,330
Nickel	100	57	<40ND	212
Selenium	10	12B	<20ND	23.5
Sodium	20,000	351,000	181,000	207,000

Results indicate an increase of Arsenic from 8.44J ppb to 109 ppb, exceeding the standard of 25 ppb.

The levels of Antimony increased from <60ND in 2020 Event to 39.8 ppb in 2022 Event, exceeding the standard of 3 ppb.

The level of Barium increased from 192 ppb in 2020, to 1,610 ppb in 2022, exceeding the standard of 1000 ppb.

Cadmium levels increased from <5ND in 2020 to 17.5 ppb in 2022, exceeding the standard of 5 ppb.

Chromium increased from <10ND ppb in 2020, to 192 ppb, exceeding the standard of 50 ppb.

Results indicate an increase in copper, from <20ND in 2020, to 1,430 in 2022, exceeding the standard of 200 ppb.

Iron levels increased from 6,310 ppb in 2020, to 173,000 ppb, exceeding the standard of 300 ppb.

Lead levels increased from 55.4 ppb in 2020 to 2,900 ppb in 2022, exceeding the standard of 25 ppb.

Manganese levels increased from 472 ppb in 2020 to 3,330 ppb in 2022, exceeding the groundwater standard of 300 ppb.

Mercury levels increased from 0.274 ppb in 2020 to 26.1 ppb in 2022, exceeding the groundwater standard of 0.7 ppb.

Levels of Nickel have increased from <40ND ppb in 2020 to 212 ppb in 2022, exceeding the standard of 100 ppb.

Levels of Selenium have increased from <20ND in 2020 to 23.5 in 2022, exceeding the standard of 10 ppb.

Sodium levels have increased from 181,000 ppb in 2020 to 207,000 ppb in 2022, exceeding the standard of 20,000 ppb.



Overall, the levels of metals increased during this event and are significantly higher compared to the 2009 RI event. The types of metals detected has also increased as compared to the 2009 RI event. In summary, metals concentrations are lower than the 2009 RI event. The levels of Sodium, iron, lead, copper, chromium, manganese, mercury, and selenium exceeded the groundwater standards, see Table 2.

MW-107

Metals	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Arsenic	25	160	7.27J	25.8
Antimony	3	154	<60ND	33.4
Iron	300	127,000	3,800	16,800
Lead	25	4,230	<10ND	550
Mercury	0.7	29.2	<0.2ND	8.42
Nickel	100	20,200J	9,610	13,000
Sodium	20,000	178,000	104,000	194,000

Results indicate an increase in antimony from <60ND in 2020 Event to 33.4 ppb in 2022 Event, exceeding the standard of 3 ppb.

Levels of arsenic increased from 7.27J ppb in 2020 to 25.8 ppb in 2022, exceeding the standard of 25 ppb.

Iron levels increased from 3,800 ppb in 2020 sampling event to 16,800 ppb in 2022 sampling event.

Lead levels increased from <10ND ppb in 2020 to 550 ppb in 2022, exceeding the standard of 25 ppb.

Levels of manganese increased from 394 ppb in 2020 to 590 ppb in 2022, exceeding the standard of 300 ppb.

Mercury levels increased from <0.2 ND in 2020 to 8.42 ppb in 2022, exceeding the groundwater standard of 0.7 ppb.

Nickel levels increased from <40ND ppb in 2020 to 159 ppb in 2022, exceeding the groundwater standard of 100 ppb.

Sodium levels increased from 104,000 ppb in 2020 to 194,000 ppb in 2022, exceeding the groundwater standards of 20,000 ppb.

Overall, the levels of metals increased from the 2020 sampling event to the 2022 sampling event. Metal levels have generally decreased from 2009 RI Event to 2022, with the exceptions of sodium increasing levels from 178,000 ppb in 2009 to 194,000 ppb in 2022.

METALS SUMMARY

It appears that the levels and types of metals detected during the 2009 RI event have fluctuated based on sample results from the 2022 Annual Groundwater Monitoring event.

Levels of lead, cadmium, copper, nickel, and antimony are metals that exceed part 703.5 groundwater standards but are reduced from elevated 2009 RI event levels. Iron levels increased at locations MW-102, 102R, and 106R during the 2022 sampling event, exceeding the 2009 RI Event and groundwater standards.



Manganese levels increased at locations 101R, and 102, 106R, exceeding the 2009 RI Event and groundwater standard. Mercury levels increased, exceeding the 2009 RI event and groundwater standards at locations MWR-106, MW-101, MW-102, and MWR-103. Cadmium increased at levels exceeding the 2009 RI event and groundwater standards at monitoring well locations MW-105 and MWR-106. Levels of selenium increased at levels exceeding 2009 RI event and part 703.5 groundwater standards. Levels of barium, and chromium decreased or were non-detect (ND) at all monitoring well locations, except for MWR-106, Levels of sodium increased at levels exceeding the 2009 RI event levels and groundwater standards for all monitoring well locations except MWR-101 and MWR-106. Low levels of lead slightly exceed groundwater standards in limited samples and are significantly reduced from elevated 2009RI event levels.

The table below presents the range for levels of RCRA 8 Metals during the 2009 RI event, 2020 Fourth Annual Groundwater monitoring event, and the current 2022 Annual Groundwater monitoring event that indicate reductions and significant increases with each metal below standards.

Semi-Volatile Organic Compounds (SVOCs)

MW-101

SVOCs	703.5 standard (ppb)	2022 levels (ppb)
Acenaphthene	20	0.06J
Fluoranthene	-	0.48
Benzo(a)anthracene	-	0.29
Benzo(a)pyrene	ND	0.22
Benzo(b)fluoranthene	-	0.36
Benzo(k)fluoranthene	-	0.12
Chrysene	-	0.27
Anthracene	-	0.07J
Benzo(ghi)perylene	-	0.20
Phenanthrene	-	0.24
Dibenzo(a,h)anthracene	-	0.04
Indeno(1,2,3-cd)pyrene	-	0.20J
Pyrene	-	0.52
Pentachlorophenol	-	0.33J

SVOCs were ND during the 2020 Annual Groundwater Monitoring event and experienced an increase in levels for multiple SVOCs during the 2022 Annual Groundwater Monitoring event, as summarized in the table above. The following SVOCs were detected at levels exceeding laboratory detection limits but below the applicable part 703.5 standard: acenaphthene, fluoranthene, benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (k) fluoranthene, chrysene, anthracene, benzo (ghi) perylene, phenanthrene, dibenzo (a,h) anthracene, indeno (1,2,3-cd) pyrene, pyrene, pentachlorophenol.

In summary, SVOC concentrations are detected at levels above laboratory detection limits, but below the 703.5 groundwater standards. The low levels of SVOCs are a secondary contaminant of concern (COC) in the groundwater at the Site.



MWR-101

SVOCs	703.5 standard (ppb)	2022 levels (ppb)
Fluoranthene	-	0.32
Benzo(a)anthracene	-	0.12
Benzo(a)pyrene	ND	0.17
Benzo(b)fluoranthene	-	0.35
Benzo(k)fluoranthene	-	0.11J
Chrysene	-	0.19
Benzo(ghi)perylene	-	0.27J
Phenanthrene	-	0.12J
Indeno(1,2,3-cd)pyrene	-	0.26J
Pyrene	-	0.27

SVOCs were ND during the 2020 Annual Groundwater Event. The following SVOCs were detected at levels exceeding laboratory detection limits during the 2022 Annual Groundwater Monitoring event from April 27, 2022: Fluoranthene, benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (k) fluoranthene, chrysene, benzo (ghi) perylene, phenanthrene, indeno (1,2,3-cd) pyrene, and pyrene.

In summary, SVOC concentrations are detected at levels above laboratory detection limits, but below the 703.5 groundwater standards. The low levels of SVOCs are a secondary contaminant of concern (COC) in the groundwater at the Site. The increased concentrations between 2020 and 2022 may be a result of season fluctuation of the groundwater table.

MW-102

SVOCs	703.5 standard (ppb)	2022 levels (ppb)
Naphthalene	-	0.09J
Benzo(a)anthracene	-	0.03J
Benzo(b)fluoranthene	-	0.02J
Phenanthrene	-	0.02J

SVOCs were ND during the 2020 Annual Groundwater Monitoring event and experienced an increase in levels for multiple SVOCs during the 2022 Annual Groundwater Monitoring event. The following SVOCs were detected at levels exceeding laboratory detection limits: naphthalene at 0.09J ppb, benzo(a)anthracene at 0.03J ppb, benzo(b)fluoranthene at 0.02J ppb, and phenanthrene at 0.02J ppb.

In summary, most SVOC concentrations are ND and those that are detected are at levels lower than the estimated low levels detected in the 2020 Annual Event and the 2009 RI event, see Table 8 in Appendix 3. SVOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MW-102R

SVOCs	703.5 standard (ppb)	2022 levels (ppb)
Benzo(a)anthracene	-	0.02J
Benzo(k)fluoranthene	-	0.04J

SVOCs were ND during the 2020 Annual Groundwater Monitoring event and experienced an increase in levels for multiple SVOCs during the 2022 Annual Groundwater Monitoring event. The following two (2)



SVOCs were detected at levels exceeding laboratory detection limits: benzo(a)anthracene and benzo(k)fluoranthene were detected at levels of 0.02J and 0.04J, respectively.

In summary, most SVOC concentrations are ND and those that are detected are at levels lower than the estimated low levels detected in the 2020 Annual Event and the 2009 RI event, see Table 8 in Appendix 3. The low levels of SVOCs are a secondary contaminant of concern (COC) in the groundwater at the Site.

MW-103

SVOCs	703.5 standard (ppb)	2022 levels (ppb)
Fluoranthene	-	0.11
Naphthalene	-	0.10
Benzo(a)anthracene	-	0.13
Benzo(a)pyrene	ND	0.10
Benzo(b)fluoranthene	-	0.16
Benzo(k)fluoranthene	-	0.05J
Chrysene	-	0.10
Benzo(ghi)perylene	-	0.09J
Phenanthrene	-	0.08J
Indeno(1,2,3-cd)pyrene	-	0.09J
Pyrene	-	0.31

SVOCs were ND during the 2020 Annual Groundwater Event. The following SVOCs were detected at levels exceeding laboratory detections limits during the 2022 Annual Groundwater Monitoring event from April 27, 2022:

Fluoranthene, naphthalene, benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (k) fluoranthene, chrysene, benzo (ghi) perylene, phenanthrene, indeno (1,2,3,-cd) pyrene, and pyrene. In summary, SVOC concentrations are detected at levels above laboratory detection limits, but below the 703.5 groundwater standards with the exception of Benzo (a) pyrene, with a level of 0.10 ppb, exceeding the standard of ND. The low levels of SVOCs are a secondary contaminant of concern (COC) in the groundwater at the Site.

MW-105

SVOCs were ND during the 2020 Annual Groundwater Monitoring event and unchanged based on the 2022 Annual Groundwater Monitoring event. These results indicate a reduction from low levels of estimated concentrations of SVOC's exceeding groundwater standards during the previous 2020 Annual Event and 2009 RI event.

In summary, SVOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event, see Appendix 3. SVOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.



MWR-106

SVOCs	703.5 standard (ppb)	2022 levels (ppb)
Bis(2-ethylhexyl)phthalate		2.6J
Acenaphthene	20	0.34
Fluoranthene	-	0.60
Naphthalene		0.12
Benzo(a)anthracene	-	0.45
Benzo(a)pyrene	ND	0.30
Benzo(b)fluoranthene	-	0.35
Benzo(k)fluoranthene	-	0.13
Chrysene	-	0.28
Acenaphthylene	-	0.06J
Anthracene	-	0.12
Benzo(ghi)perylene	-	0.09J
Fluorene	-	0.08J
Phenanthrene	-	0.21
Dibenzo(a,h)anthracene	-	0.05J
Indeno(1,2,3-cd)pyrene	-	0.22
Pyrene	-	0.72

SVOCs were ND during the 2020 Annual Groundwater Event. The following SVOCs were detected at levels exceeding laboratory detections limits during the 2022 Annual Groundwater Monitoring event from April 27, 2022:

Bis(2-ethylhexyl)phthalate, Acenaphthene, Fluoranthene, Naphthalene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Chrysene, Acenaphthylene, Anthracene, Benzo (ghi) perylene, Fluorene, Phenanthrene, Dibenzo(a,h)anthracene, Indeno (1,2,3,-cd) pyrene, and Pyrene.

In summary, SVOC concentrations are detected at levels above laboratory detection limits, but below the 703.5 groundwater standards with the exception of Benzo (a) pyrene, with a level of 0.30 ppb, exceeding the standard of ND. The low levels of SVOCs are a secondary contaminant of concern (COC) in the groundwater at the Site.

MW-107

SVOCs	703.5 standard (ppb)	2022 levels (ppb)
Fluoranthene	-	0.22
Naphthalene	-	0.04J
Benzo(a)anthracene	-	0.29
Benzo(a)pyrene	ND	0.17
Benzo(b)fluoranthene	-	0.30
Benzo(k)fluoranthene	-	0.10J
Chrysene	-	0.21
Anthracene	-	0.04J
Benzo(ghi)perylene	-	0.11
Phenanthrene	-	0.08J
Indeno(1,2,3-cd)pyrene	-	0.12
Pyrene	-	0.32



SVOCs were ND during the 2020 Annual Groundwater Event. The following SVOCs were detected at levels exceeding laboratory detection limits during the 2022 Annual Groundwater Monitoring event from April 27, 2022:

Fluoranthene, naphthalene, benzo (a) anthracene, benzo (a) pyrene, benzo (b) fluoranthene, benzo (k) fluoranthene, chrysene, anthracene, benzo (ghi) perylene, phenanthrene, indeno (1,2,3,-cd) pyrene, and pyrene.

In summary, SVOC concentrations are detected at levels above laboratory detection limits, but below the 703.5 groundwater standards with the exception of benzo (a) pyrene, with a level of 0.30 ppb, exceeding the standard of ND. The low levels of SVOCs are a secondary contaminant of concern (COC) in the groundwater at the Site.

SVOCs SUMMARY

In general, the low levels of SVOCs previously detected in groundwater samples during the 2009 RI event have been reduced to levels that are ND and below standards during the 2020 annual event. The 2022 Groundwater Monitoring Event detected SVOCs at levels above laboratory detection limits but below 703.5 groundwater standards.

It appears that sporadic detections of SVOCs were detected during the RI event (see Appendix 3), and during the 2022 Annual Sampling Event. These results establish a trend for periodic low levels of SVOCs below standards or at levels that slightly exceed standards. SVOCs do not appear to be a COC based on low levels and lack of frequency of detections during the 2020 annual event and 2022 annual event of post-remediation groundwater monitoring. A copy of the laboratory report for this event is presented in Appendix B. The 2009 RI event results and 2020 Annual Events are presented in Appendix 3.

Volatile Organic Compounds (VOCs)

MW-101

Results for 2022 Annual Groundwater Monitoring event were unchanged at ND. The results for VOCs during the previous 2020 Annual Groundwater Monitoring event and RI event were ND.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2020 Annual Event and 2009 RI event, see Appendix 3. VOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MWR-101

Results for 2022 Annual Groundwater Monitoring event were ND for all VOCs with the exception of cis-1,2-Dichloroethene at a level of 8.18 ppb. Levels of VOCs were ND or below standards during the RI event; see Appendix 3.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2020 Annual Groundwater Monitoring event and the 2009 RI event, see Appendix 3. VOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MW-102

Results for 2020 Annual Groundwater Monitoring event were ND. Levels of VOCs were ND or below standards during the RI event; see Appendix 3.



In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2020 Annual Event and 2009 RI event, see Appendix 3.

MWR-102

VOCs	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Methyl tert-butyl Ether	10.0	31.0	10.6	14.8
cis-1, 2-Dichloroethene	5.0	1.0	1.0	1.65

Levels of cis-1, 2-Dichloroethene increased from 1.27J ppb (estimated value) in the 2020 Annual Groundwater Monitoring event to 1.65 ppb. This value is below the standard of 5 ppb. Methyl tert-butyl Ether (MTBE) increased from 10.6 ppb in the 2020 Annual Groundwater Monitoring event to 14.8 ppb in the 2022 Annual Groundwater Monitoring Event exceeds the standard of 10 ppb. Levels of cis-1, 2-Dichloroethene at 1.0J ppb and MTBE at 31.0 ppb were detected during the RI event; see Appendix 3.

In summary, the levels of cis-1, 2-Dichloroethene and MTBE have increased and are detected during the 2022 annual sampling event. VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections.

MW-103

Results for 2022 Annual Groundwater Monitoring event were ND. Levels of VOCs were ND or below standards during the 2020 Annual Groundwater Monitoring event and RI event; see Appendix 3.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2020 Annual Groundwater Monitoring event and 2009 RI event, see Appendix 3.

MW-105

Results for 2022 Annual Groundwater Monitoring event were ND for all VOCs except for methylcyclohexane with levels of 1.37 ppb. Levels of VOCs were ND or below standards during the RI event; see Appendix 3.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event, see Appendix 3.

MWR-106

VOCs	703.5 standard (ppb)	2009 levels (ppb)	2020 levels (ppb)	2022 levels (ppb)
Chlorobenzene	5	ND	4.93	9.49

Levels of Chlorobenzene increased from 4.93 ppb in the 2020 Annual Groundwater Monitoring event to 9.49 ppb in the 2022 Annual Groundwater Monitoring Event and this level is above the groundwater standard of 5 ppb. Levels of VOCs were ND or below standards during the 2020 Annual Groundwater Monitoring event and RI event; see Appendix 3.

VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections.



MW-107

Levels of VOCs were ND or below standards during the RI event; see Appendix 3.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2020 Annual Groundwater Monitoring event and the 2009 RI event, see Appendix 3.

VOCs SUMMARY

In general, the low levels of VOCs previously detected in groundwater samples during the 2020 Annual Groundwater Monitoring event and the 2009 RI event have increased and some exceed groundwater standards. One (1) detection of MTBE at monitoring well MWR-102 exceeded the groundwater standard of 10 ppb with a level of 14.8 ppb. The RI event level of MTBE was 31.0 ppb. During the 2020 Annual Groundwater Monitoring event the level was 10.6 ppb. Overall, the level of MTBE has increased. Levels of MTBE at MWR-102 increased from 10.6 ppb in 2020, to 14.8 ppb in the 2022 Sampling Event.

Cis-1, 2-Dichloroethene increased from 1.27J (estimated value) to 1.65 ppb in MWR-102 during the 2022 sampling event. Cis-1, 2-Dichloroethene at MWR-102 increased from 1.27 ppb in 2020 Event, to 1.65 ppb in 2022 Event.

Chlorobenzene increased from 4.93 ppb in MWR-106 for the 2020 Sampling Event to 9.49 ppb for 2022 Annual Groundwater Monitoring event, exceeding the groundwater standard of 5 ppb.

Methylcyclohexane levels increased in MW-105 from ND in 2020 sampling event, to 1.37 ppb in 2022 sampling event.

It should be noted that the majority of the VOCs detected during the RI event were estimated values and or detected in the blank samples. These results establish a trend for periodic low levels of VOCs below standards or at levels that slightly exceed standards in samples from MWR-102, MW-105, and MWR-106. Therefore, VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections. A copy of the laboratory report for this event is presented in Appendix 4. The 2009 RI event results are presented in Appendix 3.

Quality Control Sample Results

A blind duplicate sample was collected from MW-101. This duplicate sample was MW-X and analyzed for Metals, SVOCs and VOCs. The results for this duplicate sample are consistent with the levels detected in sample MW-101. Matrix spike and matrix spike duplicates samples were collected from monitoring well MW-107. An aqueous trip blank sample was provided by the laboratory for VOCs analysis. The results for the trip blank sample were ND, see Appendix 4.



7.0 OPERATION & MAINTENANCE COMPLIANCE

Operation and maintenance activities were completed at the Site and include inspections of the EC and some repairs to the Site fencing and maintenance of vegetation around Cover Type 1. The 2022 Annual EC/IC Inspection was completed on June 10, 2022, to assess the general condition of the Site as well as conditions of the cover system. A summary of the conditions and recommendations is provided below.

The following recommendations were noted during the Annual EC Inspection. Overall, all the EC are functional and IC in place for protection of human health and the environment. The following action items for maintenance and repairs were noted from the Annual EC inspection on June 10, 2022:

1. Make repairs to potholes/cracks in the existing roadway Cover Type 2 installed in 1998. Asphalt patches required to match material and elevation of existing pavement surface. Crack sealer coat needs to be applied to Cover Type 2 areas (pavement roadway areas installed in 1998) where cracking has developed.
2. Remove vegetation that includes weeds and brush along the fencing of the back lot. It is recommended to manually remove vegetation in place of use of herbicides (weed killer).
3. Replace the steel well cover and concrete surface seal at monitoring well MW-101.
4. Client will be responsible to choose a sub-consultant to complete repairs.

Maintaining the integrity and effectiveness of the EC is based on the results of inspections when needed and the required annual inspections to provide recommendations for making repairs to the cover system as necessary to correct the effects of weathering, settlement, subsidence, erosion, or other events, and preventing run-on and run-off from eroding the cover system.



8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 COMPLIANCE

The requirements dictated in the SMP regarding IC/EC's and the Monitoring Plan were met during the reporting period. The recommended repairs to the cover system did not compromise the integrity of the protectiveness of this EC. The repairs should be made before the end of 2022 to ensure continued integrity of the cover system.

8.2 PERFORMANCE AND EFFECTIVENESS OF REMEDY

An evaluation of the components of the SMP during this reporting period indicates that, as of the end date of this report, the IC/EC controls were protective of human health and the environment. Levels of COC in post-remediation groundwater samples have been significantly reduced. Implementation of the monitoring plan sufficiently complied with performance of the remedy.

8.3 RECOMMENDATIONS FOR FUTURE PRR

Since, residual contamination remains at the site, applicable site monitoring and management requirements should be continued. The next inspection and monitoring event date is to be determined upon further discussion with NYSDEC on sampling frequency.

8.4 POTENTIAL CHANGE IN USE

There is no potential change in use planned for this Site that Bergmann has been notified about at this time. A future sale of the site requires a 60-Day Advance Notification of Transfer of Ownership as required by 6NYCRR Part 375-1.11(d) and 375-1.9(f).



TABLES

TABLE 1
 2022 Groundwater Elevations Summary
 Post-Remediation Annual Groundwater Monitoring
 April 29,2020 through April 29, 2022
 Volunteers of America
 Back Lot Site No. C828126
 Rochester, New York

Well Name	Total	Ref. Elev.	Depth to Water 7/27/2009	GW Elev. 7/1/2009	Depth to Water 4/2/2019	GW Elev. 4/2/2019	Depth to Water 6/28/2019	GW Elev. 6/28/2019	Depth to Water 10/4/2019	GW Elev. 10/4/2019	Depth to Water 1/3/2020	GW Elev. 1/3/2020	Depth to Water 4/27/2022	GW Elev. 4/27/2022
MW-101	30	481.89	24.48	457.41	15.78	466.11	19.74	462.15	21.49	460.4	21.01	460.88	21.8	460.09
MWR-101	54.5	481.84	24.8	457.04	19.58	462.26	21.1	460.74	21.95	459.89	21.55	460.29	22.3	459.54
MW-102	31	490.61	23.5	466.59	22.24	468.37	22.67	467.94	23.98	466.18	23.45	467.16	22.3	468.31
MWR-102	54	490.16	31.69	458.47	26.8	463.36	28.37	461.79	29.2	460.96	28.71	461.45	28	462.16
MW-103	44	486.34	43.14	443.34	33.06	453.28	36.64	449.7	39.53	446.81	39.03	447.31	39.6	446.74
MW-105	28	483.85	18.41	465.72	17.93	465.92	18.32	465.53	18.73	465.12	18.18	465.67	18.6	465.25
MW-106	32	483.53	25.58	457.59	15.85	467.68	20.56	462.97	22.49	461.04	21.98	461.55	22.85	460.68
MW-107	44	485.17	--	--	29.81	455.36	32.93	452.24	34.92	450.25	34.44	450.73	34.4	450.77



Table 1
 2022 Groundwater Sample Analysis Summary
 Metals
 Volunteers of America of Western New York
 214 Lake Avenue Rochester, New York

Table 1: TAL Metals Groundwater Results

Metals	NYSDEC 703.5 Standard	VOA MW-101 (7/27/09)	VOA MW-101 (6/11/2020) Annual 2020	VOA MW-101 (4/17/2022) Annual 2022	MWR-101 (7/27/09)	MWR-101 (6/11/2020) Annual 2020	MWR-101 (4/17/2022) Annual 2022	VOA MW-102 (7/29/09)	VOA MW-102 (6/11/2020) Annual 2020	VOA MW-102 (4/17/2022) Annual 2022	MWR-102 (7/29/09)	MWR-102 (6/11/2020) Annual 2020	MWR-102 (4/17/2022) Annual 2022	MWR-103 (7/29/09)	MWR-103 (6/11/2020) Annual 2020	MWR-103 (4/17/2022) Annual 2022
RCRA Metals																
Aluminum	-	74.7	<100ND	5070	120B	1870	3640	19,400	<100ND	4120	770	96.3J	1710	31,700	<100ND	1,160
Antimony	3	108	<60ND	<60ND	<60ND	<60ND	<60ND	0.57ND	<60ND	<60ND	<60ND	<60ND	<60ND	142	<60ND	<60ND
Arsenic	25	144	9.32J	27.1	<10ND	9.10J	7.75	13.5	12.2	20.2	<10ND	7.75J	<10ND	99.2	15.1	7.59
Barium	1,000	1,840	216	407	20B	<100ND	78.2	457	484	839	696	71.2J	97.6	1,660	262	348
Beryllium	-	6	<5ND	<5ND	<5ND	<5ND	<5ND	0.84B	<5ND	<5ND	<5ND	<5ND	<5ND	3.8B	<5ND	<5ND
Cadmium	5	5.6	<5ND	<5ND	<5ND	<5ND	<5ND	0.50B	<5ND	9.34	<5ND	<5ND	2.85	4.7B	<5ND	<5ND
Calcium	-	381,000	180,000	244,000	222,000	5,540	158,000	269,000	698,000	766,000	24,100	86,800	148,000	368,000	182,000	272,000
Chromium	50	229	<10ND	16.1	<10ND	<10ND	<10ND	25.1	<10ND	5.79	4B	<10ND	<10ND	121	34.4	<10ND
Colbalt	-	60	<50ND	<50ND	<50ND	<50ND	<50ND	5.0B	<50ND	<50ND	50ND	<50ND	<50ND	35.7B	<50ND	<50ND
Copper	200	2050	<20ND	132	5B	<40ND	15.6	55.6	<40ND	17	8B	<40ND	<20ND	8,840	<20ND	270
Iron	300	140,000	11,810	30900	220	1,026	3,630	50,900	10,900	56800	1,300	1,410	2,810	80,500	1,260	7,960
Lead	25	14,100	<10ND	914	5B	13.5	26.1	109	<10ND	54.4	8B	<10ND	7.9	6,600	<10ND	232
Magnesium	-	152,000	43,400	61,200	88,800	<25ND	69,700	107,000	134,000	201,000	3,600	43,600	82,900	84,300	37,800	46,900
Manganese	300	3,840	725	1190	78	15.8	686	1120	1250	2,440	14B	102	247	1,060	534	5.37
Mercury	0.7	1.87	<0.2ND	40.7	0.20B	0.313	0.765	0.93	<0.20ND	0.116	0.02B	0.117	<20ND	195	<0.2ND	506
Nickel	100	132	<40ND	<40ND	<40ND	<40ND	<40ND	13.8B	<40ND	<40ND	<40ND	<40ND	<40ND	155	<20ND	<40ND
Potassium	-	23,000	10,300	13,900	12,400	1,470J	9,680	33,700	42,800	59,100	4,200B	10,400	12,500	18,000	11,700	13,500
Selenium	10	11B	<20ND	<20ND	6B	<20ND	<20ND	1.5ND	<20ND	43.8	35ND	<20ND	19.5	11.4B	<20ND	<20ND
Silver	50	16	<10ND	<10ND	<10ND	<10ND	<10ND	2.4B	<10ND	42	<10ND	<20ND	10.9	12.9	<10ND	<10ND
Sodium	20,000	125000	176,000	299,000	336,000	158,000	297,000	499,100	1,860,000	2,330,000	102,000	375,000	326,000	188,000	227,000	306,000
Thallium	-	25ND	<25ND	<25ND	<25ND	<25ND	<25ND	1.3ND	54.5	25.8	25ND	<25ND	<25ND	1.3ND	<25ND	<25ND
Vanadium	-	252	<25ND	22.2	50B	<25ND	<25ND	23.3B	<25ND	<25ND	50B	<25ND	<25ND	125	<25ND	<25ND
Zinc	-	3,080	<60ND	470	143	43.4	106	98.8	<60ND	95.9	915	<60ND	90.3	4,070	38.9J	405

1. NA = Not analyzed, ND = Less than laboratory detection limits, J = metals is estimated, - = No standard. Concentration in bold type indicates detection above NYSDEC 703.5 groundwater standards
 2. Concentrations of metals are expressed in parts per billion (ppb) equivalent to ug/l.
 3. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 (Remedial Investigation) analyzed by Columbia Analytical Services, Rochester, New York (ELAP ID# 10145)
 4. Samples collected by Bergmann on June 11, 2020 and analyzed by Paradigm Environmental Services, Inc. in Rochester, New York (ELAP ID#XXXX)
 5. Samples collected by Bergmann on April 27, 2022 and analyzed by Paradigm Environmental Services, Inc. in Rochester, New York (ELAP ID#XXXX)
 6. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

Table 1
2022 Groundwater Sample Analysis Summary
Metals
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

Table 2: TAL Metals Groundwater Results

Metals (Page 2 of 2)	NYSDEC 703.5 Standard	MW-105 (7/27/09)	MW-105 (6/11/2020) Annual 2020	MW-105 (4/27/2022) Annual 2022	MWR-106 (7/27/09)	MWR-106 (6/11/2020) Annual 2020	MWR-106 (4/17/2022) Annual 2022	MW-107 (7/29/09)	MW-107 (6/11/2020) Annual 2020	MW-107 (4/17/2022) Annual 2022
Aluminum	-	170,000	9,270	68,700	36,900	2,590	68,700	52,100	<100ND	5,970
Antimony	3	<60ND	<60ND	<60ND	9B	<60ND	39.8	154	<60ND	33.4
Arsenic	25	102	<10ND	48	44	8.44J	109	160	7.27J	25.8
Barium	1,000	320	<100ND	214	790	192	1,610	1,370J	121	309
Beryllium	-	8.9	<5ND	3.020	1.6B	<5ND	3.18	<5ND	<5ND	<5ND
Cadmium	5	3.7B	<5ND	7.080	4.5B	<5ND	17.5	6.2	<5ND	2.56
Calcium	-	1,820,000	115,000	1,080,000	229,000	153,000	367,000	393,000	279,000	334,000
Chromium	50	177	<10ND	77.3	118	<10ND	192	319	<10ND	32
Colbalt	-	74	<50ND	44.2	19B	<50ND	42.9	<50ND	<50ND	<5ND
Copper	200	240	<40ND	88.3	1,040	<20ND	1,430	1,360	<40ND	172
Iron	300	210,000	<100ND	102,000	60,000	6,310	173,000	127,000	3,800	16,800
Lead	25	327	<100ND	156	2,010	55.4	2,900	4,230	<10ND	550
Magnesium	-	761,000	107,000	366,000	76,000	29,200	103,000	101,000	44,500	51,700
Manganese	300	3,810	44.2	2,070	1,690	472	3,330	1,920	394	590
Mercury	0.7	<.20ND	<.20ND	0.543	1.24	0.274	26.1	29.2	<0.2ND	8.42
Nickel	100	171	<40ND	73.7	57	<40ND	212	209	<40ND	159
Potassium	-	83,500	9,640	41,600.0	23,200	9,630	18,300	20,200J	9,610	13,000
Selenium	10	<20ND	<20ND	18.7	12B	<20ND	23.5	21.8	<20ND	<20ND
Silver	50	<10ND	<10ND	<10ND	<10ND	<10ND	<10ND	<10ND	<10ND	<10ND
Sodium	20,000	58,700	93,640	199,000	351,000	181,000	207,000	178,000	104,000	194,000
Thallium	-	<25ND	<25ND	<25ND	<25ND	<25ND	<25ND	<25ND	<25ND	<25ND
Vanadium	-	180	13.7J	90.9	<25ND	<25ND	140	<25ND	<25ND	22.6
Zinc	-	163	<60ND	136	133	74.8	3,850	33.8J	<60ND	470

1. NA = Not analyzed, ND = Less than laboratory detection limits. J = metals is estimated, - = No standard. **Concentration in bold type indicates detection above NYSDEC 703.5 groundwater standards**
2. Concentrations of metals are expressed in parts per billion (ppb) equivalent to ug/l.
3. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 (Remedial Investigation) analyzed by Columbia Analytical Services, Rochester, New York (ELAP ID# 10145)
4. Samples collected by Bergmann on June 11, 2020 and analyzed by Paradigm Environmental Services, Inc. in Rochester, New York (ELAP ID#10958)
5. Samples collected by Bergmann on April 27, 2022 and analyzed by Paradigm Environmental Services, Inc. in Rochester, New York (ELAP ID#11148)
6. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

Table 1
 2022 Groundwater Sample Analysis Summary
 Metals
 Volunteers of America of Western New York
 214 Lake Avenue Rochester, New York

Table 3: Volatile Organic Compounds Groundwater Results

VOCS	NYSDEC 703.5 Standard	MWR-102 (7/29/09)	MWR-102 (6/11/2020) Annual 2020	MWR-102 (4/17/2022) Annual 2022	MWR-106 (7/27/09)	MWR-106 (6/11/2020) Annual 2020	MWR-106 (4/17/2022) Annual 2022
Methyl tert-butyl Ether	10	31	10.6	14.8	10ND	10ND	10ND
Cis-1,2-Dichloroethene	5	1	1	1.65	10ND	10ND	10ND
Chlorobenzene	5	10ND	10ND	10ND	2.0J	4.93	9.49

1. NA = Not analyzed, ND = Less than laboratory detection limits. J = metals is estimated, - = No standard. **Concentration in bold type indicates detection above NYSDEC 703.5 groundwater standards**

2. Concentrations of metals are expressed in parts per billion (ppb) equivalent to ug/l.

3. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 (Remedial Investigation) analyzed by Columbia Analytical Services, Rochester, New York (ELAP ID# 10145)

4. Samples collected by Bergmann on June 11, 2020 and analyzed by Paradigm Environmental Services, Inc. in Rochester, New York (ELAP ID#10958)

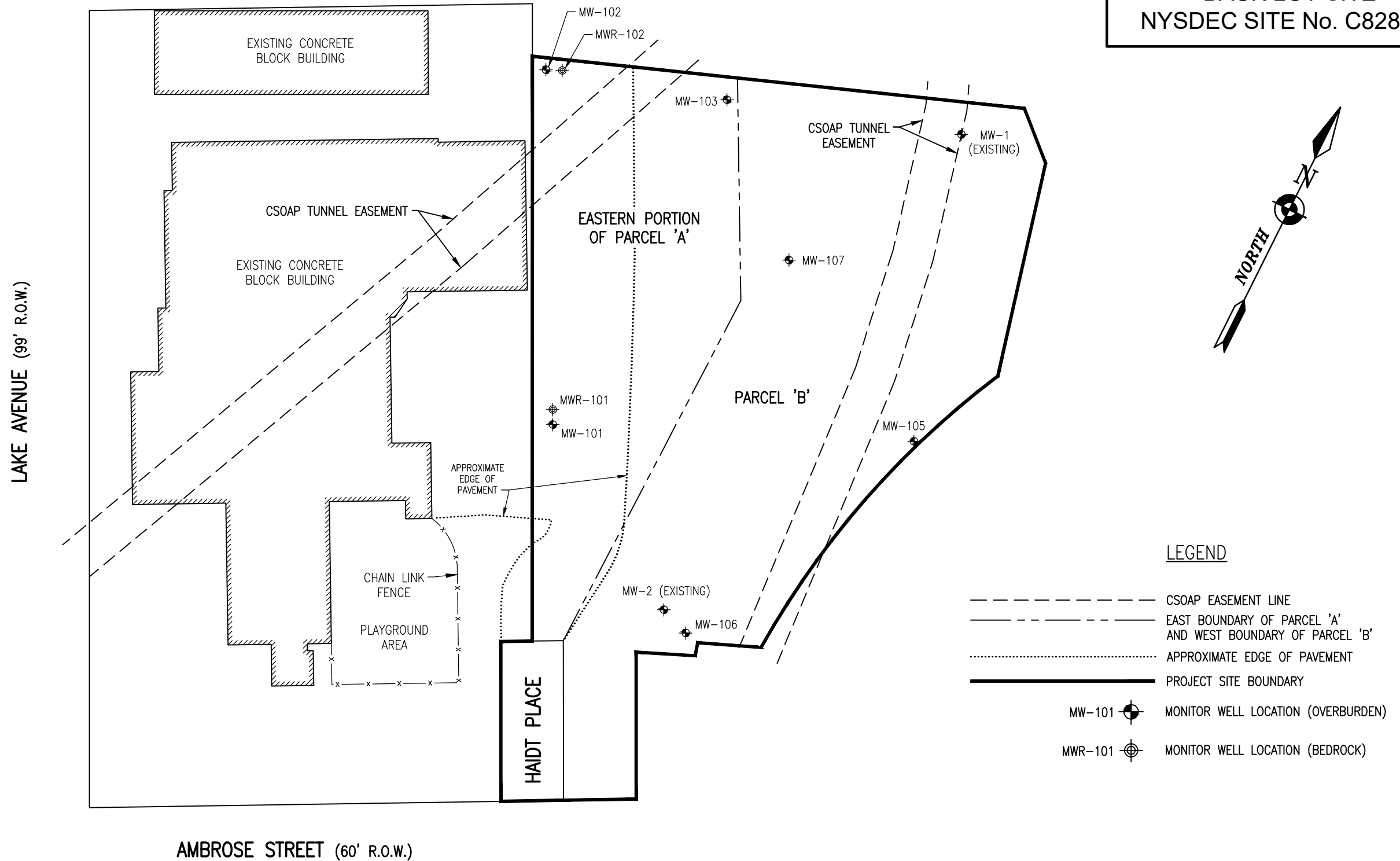
5. Samples collected by Bergmann on April 27, 2022 and analyzed by Paradigm Environmental Services, Inc. in Rochester, New York (ELAP ID#11148)

6. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

7. Results shown for July 2009 are for the Remedial Investigation.



FIGURES

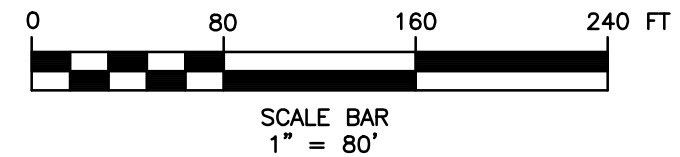


LEGEND

- CSOAP EASEMENT LINE
- - - EAST BOUNDARY OF PARCEL 'A' AND WEST BOUNDARY OF PARCEL 'B'
- APPROXIMATE EDGE OF PAVEMENT
- PROJECT SITE BOUNDARY
- MW-101 (with overburden symbol) MONITOR WELL LOCATION (OVERBURDEN)
- MWR-101 (with bedrock symbol) MONITOR WELL LOCATION (BEDROCK)

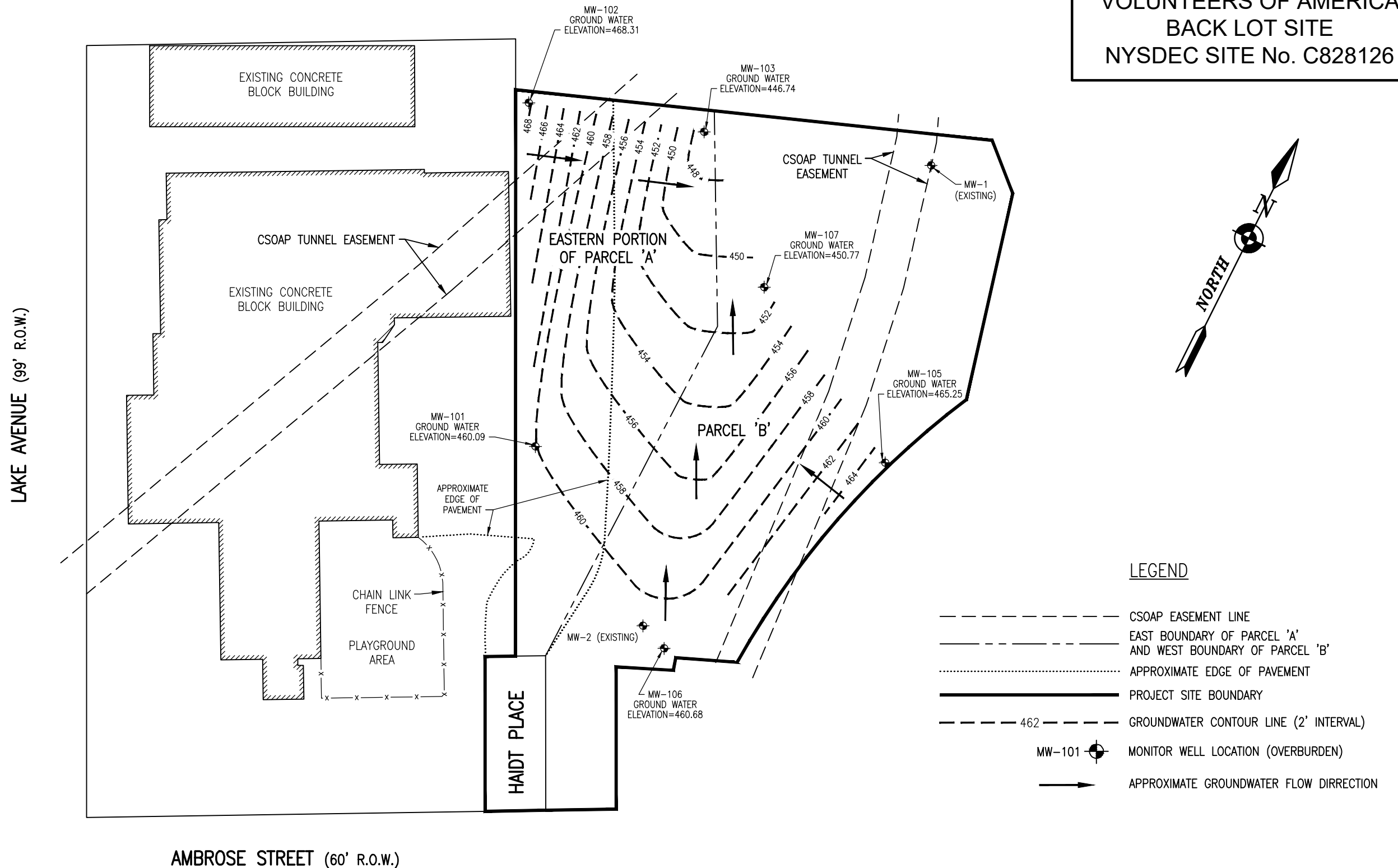
NOTES:

- 1) EXISTING FEATURES, EXISTING TESTING AND SAMPLING INFORMATION WERE OBTAINED FROM MAPS PREPARED BY BERGMANN ASSOCIATES, PC. TITLED "VOLUNTEERS OF AMERICA, WESTERN NEW YORK, NEW FACILITY, 214 LAKE AVENUE" BERGMANN PROJECT #3091.00, DATED FEB. 10, 1998.
- 2) COMBINED SEWER OVERFLOW ABATEMENT PROGRAM (CSOAP), MAINTAINED BY MONROE COUNTY.



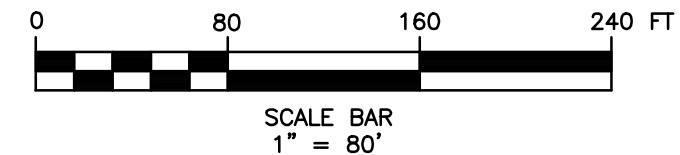
**WELL
 LOCATION
 MAP**

FIGURE 1



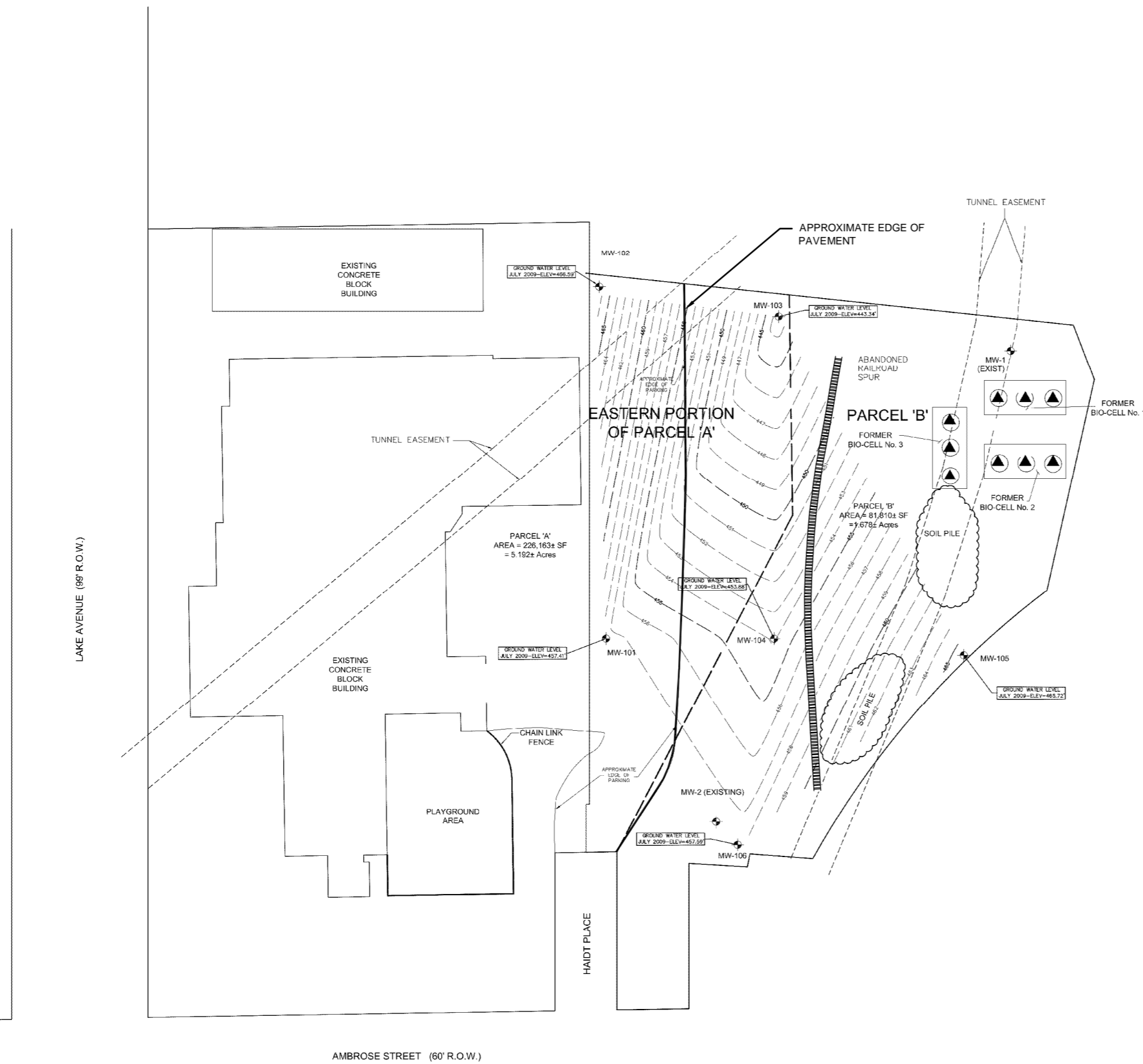
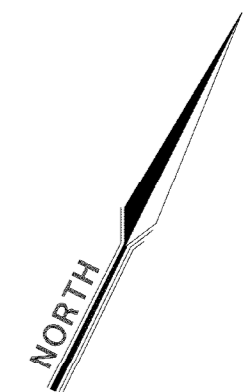
NOTES:

- 1) EXISTING FEATURES, EXISTING TESTING AND SAMPLING INFORMATION WERE OBTAINED FROM MAPS PREPARED BY BERGMANN ASSOCIATES, PC. TITLED "VOLUNTEERS OF AMERICA, WESTERN NEW YORK, NEW FACILITY, 214 LAKE AVENUE" BERGMANN PROJECT #3091.00, DATED FEB. 10, 1998.
- 2) COMBINED SEWER OVERFLOW ABATEMENT PROGRAM (CSOAP), MAINTAINED BY MONROE COUNTY.



WATER TABLE MAP
(OVERBURDEN)
APRIL 27, 2022

FIGURE 2



NOTES:
 1. GROUNDWATER LEVEL INFORMATION COLLECTED FROM MONITOR WELLS ON JULY 27, 2009.

- LEGEND:**
- EXISTING BUILDING
 - - - EAST BOUNDARY OF PARCEL 'A' AND WEST BOUNDARY OF PARCEL 'B'
 - BIO-CELL
 - ~ SOIL PILE
 - ⊙ MONITOR WELL LOCATION
 - ||||| ABANDONED RAILROAD SPUR
 - APPROXIMATE EDGE OF PAVEMENT



GROUND WATER CONTOUR MAP
 JULY 27, 2009
 FOR
 REMEDIAL INVESTIGATION
 EASTERN PORTION OF PARCEL A AND PARCEL B
 214 LAKE AVENUE
 ROCHESTER, NEW YORK
 DECEMBER 15, 2009

EXISTING FEATURES, EXISTING TESTING AND SAMPLING INFORMATION WERE OBTAINED FROM MAPS PREPARED BY BERGMANN ASSOCIATES, PC, TITLED "VOLUNTEERS OF AMERICA, WESTERN NEW YORK, NEW FACILITY, 214 LAKE AVENUE" BERGMANN PROJECT #3091.00, DATED FEB. 10, 1998.

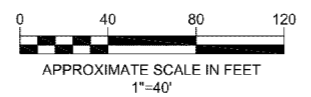


FIG. 6



APPENDIX 1



June 16, 2022

Ms. Charlotte Theobald
Project Manager
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

Re: Annual Engineering Controls Inspection Report
Volunteers of America - Back Lot Site
214 Lake Avenue and 18 Ambrose Street
NYSDEC Site # C828126
Rochester, New York

Dear Ms. Theobald:

Bergmann completed an annual inspection of the physical engineering controls (EC) on June 10, 2022. This visual inspection of EC was completed in general accordance with the Maintenance Plan in Appendix 4 of the Site Management Plan (SMP). This annual EC included visual observation for inspection of the following: site-wide engineered cover system (cover system), security fencing, monitoring well condition, and storm water collection system at the Volunteers of America Back Lot Site. The annual inspection of EC was completed in accordance with the requirements of Decision Document and SMP. This inspection is part of maintenance activities related to post-remediation tasks to ensure the integrity of the cover system, security fencing and storm water collection system occupying the area over the remaining contaminated soil and groundwater on-site. At the time of this inspection all the Institutional Controls that include the environmental easement were in place as certified in the SMP.

The objectives of the annual inspection are to observe that:

- The cover system is performing the function of properly capping subsurface soils;
- Site storm water collection system is functioning as designed;
- Security fencing is in place and free of significant damage;
- The EC is functioning as intended for protection of human health and the environment.

The cover system over the contaminated historic fill materials (contaminated soils) and groundwater serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health and the environment. The cover system also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would further impact groundwater. Based on the future restricted residential or commercial use of the property, the cover system should function as intended unless disturbed. The cover system was installed in the back lot area in 2016 and in the Haidt Place right of way during 2017, existing cover system that is roadway/parking areas was installed in 1998. Therefore, the area for EC is the entire Site, see Figure 4 in this report from the Final Engineering report.

Maintaining the integrity and effectiveness of the EC is based on the results of inspections when needed and the required annual inspections to provide recommendations for making repairs to the cover system as necessary to correct the effects of weathering, settlement, subsidence, erosion, or other events, and preventing run-on and run-off from eroding the cover system. The annual inspection was made on the items noted below and recorded on



the attached inspection forms. This inspection provides recommendations so that maintenance and repairs can be performed before damage occurs that may impact the integrity and effectiveness of the cover system. The EC conditions/issues are noted below based on the initial inspection for elements of the cover system are described as follows:

Pavement Surface: The entire pavement surface of Cover Type 1 asphalt pavement/millings, including the final (top) surface and side-slopes (pavement millings) was installed in 2016. The surface was inspected for settlement, subsidence, cracks, displacement, and presence of vegetation. Cracks were observed on Cover Type 1, see photographs. Repairs for Cover Type 1 should include applying sealer coat to the cracked sections of pavement. The existing roadway (Cover Type 2) and parking areas that were installed in 1998 as part of the cover system were also inspected for the same conditions. Several areas on the pavement surface of Cover Type 2 are cracked and have pot holes that need repairs, see attached photographs. Four pavement patches were made as repairs to Cover Type 2 during 2019 and additional repairs need to be made during 2022, see photographs. Repairs for Cover Type 2 should include pavement patches and by applying sealer coat to the cracked sections of pavement.

Grass Cover: The limited grass cover areas of Cover Type 3 (landscaped lawn) were inspected for erosion, displacement, vegetation other than grasses. The integrity of the grass landscaped Cover Type 3 in parking lot islands and within curbed/planter areas is in good condition, see photographs. Areas of Cover Type 3 along the west side of the Haidt place Right of Way have patches of exposed soils that requires seeding to prevent erosion and weed growth, see photographs.

Final Cover Surface: The final cover surface was inspected and ponding of water or flat areas was not observed. This inspection was on the day after a rain event. There was no apparent settlement, subsidence, erosion, depressions or flat areas. Ponding of water was not observed on the cover system, see photographs.

Erosion Damage Repair: The road way pavement along Haidt Place has pot holes with cracks in the asphalt that require repairs by means of asphalt patches and or sealing. This will allow for repairs by placement of asphalt and compacting the material in-kind to design grade/specifications and using sealer on cracks. The sealer installed during 2016 is in good condition. Follow-up monitoring of the repaired area will be conducted to ascertain the integrity of the repair. Erosion along the west side of the Haidt Place ROW in the landscaped lawn area was not observed, see photographs. Patches of exposed soil in the landscaped lawn area of the Cover Type 3 were not observed.

Settlement, Subsidence, and Displacement: Evidence of settlement, subsidence, or displacement of the cover system was not observed, see photographs.

Cover System Surface: Evidence of ponding water on the cover system (cap surface) was not observed, see photographs. Some areas of debris were observed on Cover Type 1, see photographs. All debris should be removed from the surface. Exposed soil in the lawn area of Cover Type 3 was observed on June 10, 2022 on the west side of Haidt Place ROW. These areas are to be stabilized through seeding.

Groundwater Monitoring System: The groundwater monitoring system was inspected for the general integrity of the wells, well casings and well protective casings during the inspection of the cover system. The concrete surface seal is cracked and steel well box (protective surface casing) for monitoring well MW-101 was bent and needs replacement. The following monitoring wells need repairs:

- MW-101 requires repairs and replacement for a new concrete surface seal and new well protective roadway box.



Storm Water Collection System: This inspection was made on the day after a rain event. The surface drainage system of the storm water collection system was inspected for erosion, integrity of manholes/catch basins, ponding, and accumulated sediment. The low areas of the cover system pavement surface are designed to route surface run-off to the catch basins of the storm water collection system below the cover system in the fenced area of the back lot. There was no observed collection of sediments in the catch basins / manholes, see photographs. Water was observed moving through the manholes. Ponding of water on the surface of cover system was not observed.

Security Fencing: The majority of the Site is fenced to reduce access to the back lot Cover Type 1 area, storm water collection system and monitoring wells. The fence height ranges from eight (8) foot and six (6) foot along the perimeter of this area. The roadway, parking lot areas and grass cover/pavement cover along the Haidt Place right-of way are not fenced. Vegetation needs to be removed from the fenced areas along Cover Type 1, see photographs.

Overall, all the EC are functional, and IC is in place for protection of human health and the environment. The following action items for maintenance and repairs were noted from the Annual EC inspection on June 10, 2022:

1. Make repairs to the cracks in Cover Type 1. Crack sealer coat is to be applied where cracking has developed.
2. Make repairs to potholes/cracks in the existing roadway Cover Type 2 installed in 1998. Asphalt patches required to match material and elevation of existing pavement surface. Crack sealer coat needs to be applied to Cover Type 2 areas (pavement roadway areas installed in 1998) where cracking has developed.
3. Remove any debris from the Cover Type 1 areas.
4. Plant grass seed on areas of exposed soils in Cover Type 3 along the Haidt Place ROW.
5. Remove vegetation that includes weeds and brush along the fencing of the lot. It is recommended to manually remove vegetation in place of use of herbicides (weed killer).
6. Replace the steel well cover and concrete surface seal at monitoring well MW-101.
7. Bergmann engineer to coordinate these repairs during 2022.

If you have questions, please contact me at 585.498.7830

Sincerely,



Kristin Jacobs, P. E.
Bergmann

Seal

Attachments: Annual Maintenance Inspection Form, Figure 4, and Photographs

Annual Maintenance Inspection Form

Name(s) of Inspectors: Kristin Jacobs, PE and Skylar Francis

Date of Inspection: June 10, 2022

Location of the permeable pavement facility: East of 214 Lake Ave Rochester, NY

Surface/wearing course type: Asphalt pavement, binder course

Address or Intersection: 18 Ambrose St/214 Lake Avenue

Age of permeable pavement facility: _____ Cover Type 1 - 5 years, 10 months (Backlot)

Permeable pavement facility area : ~3 Acres Cover Type 2 - 23 years

Cover Type 3 - 4 years, 8 months

Site Sketch (include curbs, islands, trees, north arrow, etc.)
or insert Photographs from inspection date.

See Attached

Based on visual assessment of the site, answer the following questions and take photographs of the site:

Surface/Wearing Course

1. Are there indications of any of the following on the surface of the permeable pavement facility? (If yes, mark on site sketch)

- Excessive sediment
- Moss growth
- Cracks, trip hazards, or concrete spalling
- Trash and debris
- Leaf accumulation
- Settlement of surface
- Other: _____
- None

2. Is there ponding on the surface of the permeable pavement? Yes No

If yes, describe the potential reasons for ponded water below (leaf or debris build up, non-functional underdrain, groundwater input, illicit connection, inadequate capacity in facility, etc.)

Notes and or Photographs from inspection date.

See photos:

- Extensive cracking in Cover Type 2 Area
- Grass Cover Type 3 has some areas of soil exposure
- Vegetation between fence and cap to be removed
- MW-101 needs repair to concrete surface seal and steel well box.
- Any debris on site is to be cleaned up and removed.

Inlets/Outlets/Pipes

3. How many inlet pipes are present? 0 1 2 3 4 5 > 5

4. Are any of the inlet pipes clogged? (If yes, mark the location on your site sketch and fill in the boxes below with the cause of the clogging (e.g., debris, sediment, vegetation, etc.) No Partially Completely NA

5. Are any of the inlet pipes altered from the original design or otherwise in need of maintenance? (If yes, write in reason: frost heave, vandalism, unknown, etc.) No

Inlet No. Inlet No. Inlet No.

Partly
clogged
Completely
Clogged
Reason for
Maintenance

6. Are any overflow, underdrains, raised subsurface overflow pipes, or outlet structures clogged?

No Partially Completely NA

a. If yes, mark the location on your site sketch and fill in the boxes below with the cause of the clogging (e.g., debris, sediment, vegetation, moss, etc.)

b. Are any of the overflow structures altered from the original design or otherwise in need of maintenance? (If yes, write in reason: frost heave, vandalism, unknown)

inlet No. Inlet No. Inlet No.

Partly
clogged
Completely
Clogged
Reason for
Maintenance

Observation Port (if present)

7. Is water remaining in the storage aggregate longer than anticipated by design after the end of a storm?

Yes No Unknown

a. If yes, identify potential cause of extended ponding and mark the location of observed extended ponding on your site sketch.

Summary

8. Inspector's Recommendations. When is maintenance needed?

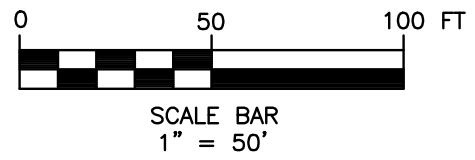
- Immediately
- Within a month or two
- Within a year
- No sign that any maintenance is required

9. Summarize the results of this inspection and write any other observations in the box below
Summary and other observations or Photographs from
inspection date.

Apply seal coat - Cover Type 2
Remove vegetation along fence
MW-101 needs repair
Remove any debris

Cover Type	Cross-Section
Cover Type 1: Asphalt pavement and Asphalt millings constructed over the majority of the Site (Installed 2016) and the western right of way at Haidt Place 2017.	2016 Installation: A subbase-recycled concrete, minimum of 18 inches and maximum of 27 inches compacted above black geo-textile demarcation layer. Binder 4-inches upper surface of cover system (flat surface) installed. Asphalt millings approximately 4 to 6 inches thick compacted on slope perimeter of cover system. 2017 Haidt Place: 2-foot thick Crusher Run #2 with 4-inches of asphalt cover placed along the eastern right of way.
Cover Type 2: Existing Asphalt Pavement roadway, concrete walkway and parking areas (Installed 1998)	Top Course-1.5 inches Binder-3.5 inches Base Course-4 inches Subbase-12 inches Placed for roadways and parking areas along the west side of the Site. Pavement cracks sealed in 2016.
Cover Type 3: Landscaped lawn (Installed 1998) and in the west side of the Haidt Place right of way 2017.	1998 Landscaped Lawn: Existing grass covered topsoil 2-inches, with 12 inches soil cover thickness (min) placed along the southwest side of the Site near VOA children's playground in 1998. 2017 Haidt Place: 2-foot of imported Crusher Run #2 with 4 to 6-inches of top soil place in 2017 along the west side of Haidt Place.

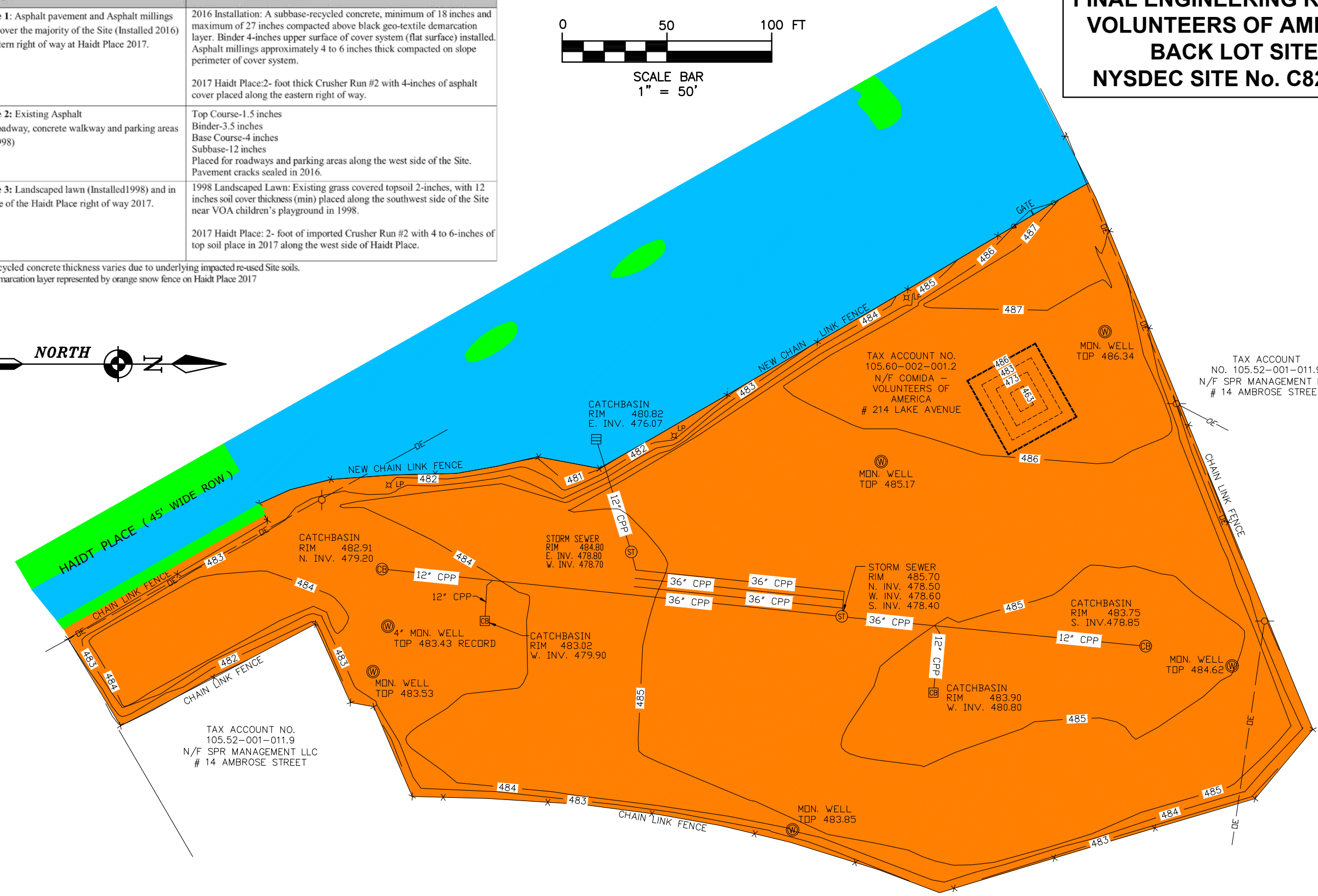
* Recycled concrete thickness varies due to underlying impacted re-used Site soils.
* Demarcation layer represented by orange snow fence on Haidt Place 2017



**FINAL ENGINEERING REPORT
VOLUNTEERS OF AMERICA
BACK LOT SITE
NYSDEC SITE No. C828126**

BERGMANN ASSOCIATES
Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, D.P.C.

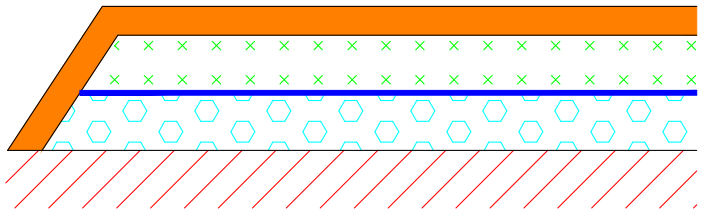
280 East Broad Street
Suite 200
Rochester, New York 14604
office: 585.232.5135
fax: 585.232.4652
www.bergmannpc.com



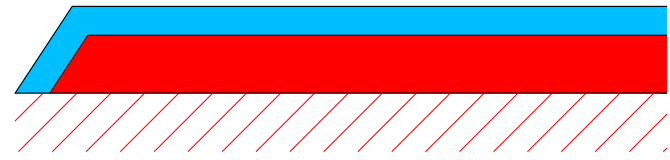
LEGEND

- PAVEMENT APPROXIMATELY 0 TO 6.0 INCHES
- RECYCLED CONCRETE 6 TO 18.0 INCHES
- DEMARCATION LAYER
- REUSED ON-SITE SOIL TESTED FROM RI APPROXIMATELY 18.0 TO 42.0 INCHES
- ORIGINAL GROUND SURFACE
- GRASS COVERED TOPSOIL 0 TO 2 INCHES
- TOPSOIL 4 TO 6 INCHES
- IMPORTED GRAVEL 4 TO 22 INCHES
- SUBBASE 9 TO 21 INCHES
- PAVEMENT 0 TO 9 INCHES

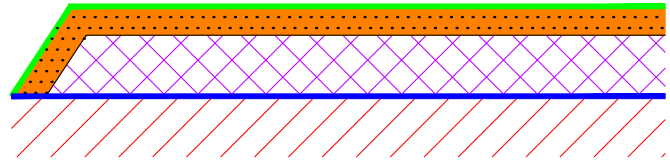
COVER TYPE 1 - MINIMUM 487 ELEVATION



COVER TYPE 2 - MINIMUM



COVER TYPE 3 - MINIMUM 485 ELEVATION



CONTOUR MAP OF EXCAVATION AND BACKFILL THICKNESS

FIGURE 4

I:\VOA\006726.05 VOA-214 LAKE AVE NYS TITLE 14 BROWNFIELD\3.0 Design\3.8 Reports\Final Engineering Report\Final FER December\FER Figures\Figure 4.dwg



Cracks in Cover Type 1 within fenced area.



View looking north of Cover Type 2 and 3, grass cover west central side of Site.



Cover Type 2, looking south towards Haidt Place/Ambrose St .



Cover Type 3, grass cover on Haidt Place ROW with areas of exposed soils.
View looking west.



Type 2 Cover with patched area from 2019 and new potholes.



Type 2 Cover Haidt Place and Haidt Place ROW showing cracks.



Cover Type 2, view looking south. Debris to be cleared from drain.



Cover Type 1, view looking. All debris to be cleared.



Cracked surface seal/damaged well box at monitoring well MW-101.



Catch basin in Cover Type 1.



Cover Type 1 and Cover Type 2, view looking south.



Fencing around Cover Type 1. Vegetation to be removed.



Cover Type 1, view looking north.



Cover Type 1 view looking northwest.



Cover Type 1 facing west. Vegetation to be removed.



Cover Type 1, view looking east and gate.



APPENDIX 2

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

4/19/2022

Lynn Sullivan
President/Ceo
Volunteers of America of Western New York, Inc.
214 Lake Avenue
Rochester, NY 14608
lsullivan@voaupny.org

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Volunteers of America Back Lot Site

Site No.: C828126

Site Address: 18 Ambrose Street and portion of 214 Lake Avenue
Rochester, NY 14608

Dear Lynn Sullivan:

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 **July 01, 2022**. 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. 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 Charlotte Theobald, the Project Manager, at 585-226-5354 or charlotte.theobald@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
6274 East Avon-Lima Road

Avon, NY 14414

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

ec: w/ enclosures

Charlotte Theobald, Project Manager

David Pratt, Hazardous Waste Remediation Supervisor, Region 8

BERGMANN ASSOCIATES - Stephen DeMeo - sdemeo@bergmannpc.com

The following parcel owner did not receive an ec:

County Of Monroe Industrial Development - Parcel Owner

Volunteers Of America Of Western Ny - 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.	C828126			
Site Name Volunteers of America Back Lot Site				
Site Address: 18 Ambrose Street and portion of 214 Lake Avenue Zip Code: 14608				
City/Town: Rochester				
County: Monroe				
Site Acreage: 3.055				
Reporting Period: June 01, 2021 to June 01, 2022				
		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 type="checkbox"/>	<input checked="" 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.			
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? Restricted-Residential, Commercial, and Industrial	<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	

Box 2A

YES NO

8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid?
(The Qualitative Exposure Assessment must be certified every five years)

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C828126

Box 3

Description of Institutional Controls

Parcel

105.60-2-1.002 (portion of)

Owner

County of Monroe Industrial Development

Institutional Control

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will: requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws; restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and require compliance with the Department approved Site Management Plan.

A Site Management Plan is required, which includes the following: an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective.

This plan includes, but may not be limited to: an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination; descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions; a provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion; provisions for the management and inspection of the identified engineering controls; maintaining site access controls and Department notification; and the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to: monitoring of groundwater to assess the performance and effectiveness of the remedy; a schedule of monitoring and frequency of submittals to the Department; and monitoring for vapor intrusion for any future buildings developed on the site.

105.60-2-59.003

Volunteers of America of Western NY

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will: requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws; restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and require compliance with the Department approved Site Management Plan.

A Site Management Plan is required, which includes the following: an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective.

This plan includes, but may not be limited to: an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination; descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions; a provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion; provisions for the management and inspection of the identified engineering controls; maintaining site access controls and Department notification; and the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to: monitoring of groundwater to assess the performance and effectiveness of the remedy; a schedule of monitoring and frequency of submittals to the Department; and monitoring for vapor intrusion for any future buildings developed on the site.

Description of Engineering ControlsParcelEngineering Control**105.60-2-1.002 (portion of)**

Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

105.60-2-59.003

Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

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. C828126**

Box 6

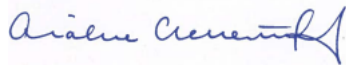
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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 Ariadna Cheremeteff at 280 East Broad St.Suite 200 Rochester, NY, 14604
print name print business address

am certifying as consultant for owner of the site (Owner or Remedial Party)

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



8/9/2022

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

Date

EC CERTIFICATIONS

Box 7

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 Kristin Jacobs at 280 East Broad St, Suite 200 Rochester, NY, 14604
print name print business address

am certifying as a consultant for owner of the site
(Owner or Remedial Party)

Kristin Jacobs



August 11, 2022

Signature of _____, for the Owner or Remedial Party,
Rendering Certification

Stamp
(Required for PE)

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.



APPENDIX 3

**TABLE 8 Groundwater Sample Analytical Summary
Semi-Volatile Organic Compounds – Method OLM 4.2**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

Semi-volatile Organic Compounds Page 1 of 4	VOAMW - 101	VOAMWR - 101	VOAMW - 102	VOAMWR - 102	VOAMW - 103	VOAMW - 104	NYSDEC Groundwater Standards
	10/30/08	10/30/08	10/31/08	10/31/08	10/31/08	10/30/08	
Acenaphthene	9ND	9ND	9ND	9ND	2.0J	9ND	20
Acenaphthylene	9ND	9ND	9ND	9ND	9ND	9ND	-
Acetophenone	9ND	9ND	9ND	9ND	9ND	9ND	-
Anthracene	1.0J	9ND	9ND	9ND	9ND	9ND	50
Atrazine	9ND	9ND	9ND	9ND	9ND	9ND	7.5
Benzaldehyde	9ND	9ND	9ND	9ND	9ND	9ND	-
Benzo (a) Anthracene	2.0J	9ND	9ND	9ND	1.0J	1.0J	0.002
Benzo (a) Pyrene	2.0J	9ND	9ND	9ND	2.0J	1.0J	ND
Benzo (b) Fluoranthene	1.0J	9ND	9ND	9ND	1.0J	1.0J	0.002
Benzo (g,h,i) Perylene	1.0J	9ND	9ND	9ND	2.0J	9ND	-
Benzo (k) Fluoranthene	1.0J	9ND	9ND	9ND	9ND	9ND	0.002
Biphenyl	9ND	9ND	9ND	9ND	9ND	9ND	-
Butyl Benzyl Phthalate	9ND	9ND	9ND	9ND	9ND	9ND	50
Di-N-Butylphthalate	3.0JB	3.0JB	3.0JB	3.0JB	3.0JB	3.0JB	50
Caprolactam	24ND	3.0J	9ND	9ND	8.0J	9ND	-
Carbazole	9ND	9ND	9ND	9ND	9ND	9ND	-
Indeno (1,2,3-cd) Pyrene	1.0J	9ND	9ND	9ND	1.0J	9ND	0.002
4-Chloroaniline	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Bis (-2-Chloroethoxy) Methane	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Bis (-2-Chloroethyl) Ether	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2-Chloronaphthalene	9ND	9ND	9ND	9ND	9ND	9ND	10
2-Chlorophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2,2'- Oxybis (1-Chloropropane)	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Chrysene	2.0J	9ND	9ND	9ND	1.0J	1.0J	0.002
Dibenz (a,h) Anthracene	9ND	9ND	9ND	9ND	9ND	9ND	-
Dibenzofuran	9ND	9ND	9ND	9ND	2.0J	9ND	-
3,3'- Dichlorobenzidine	9ND	9ND	9ND	9ND	9ND	9ND	5.0
2,4- Dichlorophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
Diethylphthalate	9ND	9ND	9ND	9ND	9ND	9ND	50
Dimethyl Phthalate	9ND	9ND	9ND	9ND	9ND	9ND	50
2,4- Dimethylphenol	24ND	24ND	24ND	24ND	1.0J	9ND	1.0
2,4- Dinitrophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2,4- Dinitrotoluene	9ND	9ND	9ND	9ND	9ND	9ND	5.0
2,6- Dinitrotoluene	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Bis (2-Ethylhexyl) Phthalate	2.0JB	4.0JB	3.0JB	9.0JB	4.0JB	3.0JB	5.0

**TABLE 8 Groundwater Sample Analytical Summary
Semi-Volatile Organic Compounds – Method OLM 4.2**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

Semi – volatile Organic Compounds Page 2 of 4	VOAMW - 101 10/30/08	VOAMWR - 101 10/30/08	VOAMW - 102 10/31/08	VOAMWR - 102 10/31/08	VOAMW – 103 10/31/08	VOAMW – 104 10/30/08	NYSDEC Groundwater Standards
Fluoranthene	4.0J	9ND	9ND	9ND	9ND	2.0J	50
Fluorene	9ND	9ND	9ND	9ND	9ND	9ND	50
Hexachlorobenzene	9ND	9ND	9ND	9ND	9ND	9ND	0.04
Hexachlorobutadiene	9ND	9ND	9ND	9ND	9ND	9ND	0.5
Hexachlorocyclopentadiene	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Hexachloroethane	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Isophorone	9ND	9ND	9ND	9ND	9ND	9ND	5.0
2- Methylnaphthalene	9ND	9ND	9ND	9ND	2.0J	9ND	-
4,6- Dinitro-2- Methylphenol	24ND	24ND	24ND	24ND	24ND	9ND	1.0
4- Chloro-3- Methylphenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2- Methylphenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
4- Methylphenol	36.0	9ND	9ND	9ND	3.0J	1.0J	1.0
Naphthalene	2.0J	9ND	9ND	9ND	6.0J	9ND	10
2- Nitroaniline	24ND	24ND	24ND	24ND	24ND	24ND	5.0
3- Nitroaniline	24ND	24ND	24ND	24ND	24ND	24ND	5.0
4- Nitroaniline	24ND	24ND	24ND	24ND	24ND	24ND	5.0
Nitrobenzene	9ND	9ND	9ND	9ND	9ND	9ND	0.4
2- Nitrophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
4- Nitrophenol	24ND	24ND	24ND	24ND	24ND	24ND	1.0
N- Nitrosodiphenylamine	9ND	9ND	9ND	9ND	9ND	9ND	50
Di-n-octyl Phthalate	9ND	9ND	9ND	9ND	9ND	9ND	50
Pentachlorophenol	24ND	24ND	24ND	24ND	24ND	24ND	5.0
Phenanthrene	4.0J	9ND	9ND	9ND	3.0J	1.0J	5.0
Phenol	6.0J	9ND	9ND	9ND	2.0J	9ND	1.0
4- Bromophenyl- Phenylether	9ND	9ND	9ND	9ND	9ND	9ND	-
4- Chlorophenyl- Phenylether	9ND	9ND	9ND	9ND	9ND	9ND	-
N- nitroso-di-n- Propylamine	9ND	9ND	9ND	9ND	9ND	9ND	-
Pyrene	3.0J	9ND	9ND	9ND	2.0J	2.0J	5.0
2,4,6- Trichlorophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2,4,5- Trichlorophenol	24ND	24ND	24ND	24ND	24ND	24ND	1.0
Total TICs Concentration and Number of TICs Detected	53.0J,JB (16)	8.0 J,JB (3)	12.0 J,JB,JN (5)	2.0JB (1)	18.0 J,JB,JN (7)	40.0 J,JB,JN (8)	NA

Notes: Groundwater samples collected on October 30, 2008 and October 31, 2008 by GeoQuest Environmental, Inc. concentrations expressed in parts per billion (ppb). Bold type indicates concentration above the laboratory detection limit and shaded concentrations exceed NYSDEC Groundwater standard. See laboratory case narrative page 3 for **J, JN, JB** estimated values. - = No standard, ND = non detection above limits. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

**TABLE 8 Groundwater Sample Analytical Summary
Semi-Volatile Organic Compounds – Method OLM 4.2**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

Semi-volatile Organic Compounds Page 3 of 4	VOAMW - 105	VOAMW - 105	VOAMW - 106	NYSDEC
	10/31/08	10/30/08 dup.	10/30/08	Groundwater Standards
Acenaphthene	9ND	9ND	3.0J	20
Acenaphthylene	9ND	9ND	9ND	-
Acetophenone	9ND	9ND	9ND	-
Anthracene	9ND	9ND	4.0J	50
Atrazine	9ND	9ND	9ND	7.5
Benzaldehyde	9ND	9ND	9ND	-
Benzo (a) Anthracene	9ND	9ND	10.0J	0.002
Benzo (a) Pyrene	9ND	9ND	10.0J	ND
Benzo (b) Fluoranthene	9ND	9ND	7.0J	0.002
Benzo (g,h,i) Perylene	9ND	9ND	6.0J	-
Benzo (k) Fluoranthene	9ND	9ND	8.0J	0.002
Biphenyl	9ND	9ND	9ND	-
Butyl Benzyl Phthalate	9ND	9ND	9ND	50
Di-N-Butylphthalate	2.0JB	3.0JB	3.0JB	50
Caprolactam	24ND	24ND	24ND	-
Carbazole	9ND	9ND	9ND	-
Indeno (1,2,3-cd) Pyrene	9ND	9ND	5.0J	0.002
4-Chloroaniline	9ND	9ND	9ND	5.0
Bis (-2-Chloroethoxy) Methane	9ND	9ND	9ND	5.0
Bis (-2-Chloroethyl) Ether	9ND	9ND	9ND	1.0
2-Chloronaphthalene	9ND	9ND	9ND	10
2-Chlorophenol	9ND	9ND	9ND	1.0
2,2'- Oxybis (1-Chloropropane)	9ND	9ND	9ND	5.0
Chrysene	9ND	9ND	9.0J	0.002
Dibenz (a,h) Anthracene	9ND	9ND	9ND	-
Dibenzofuran	9ND	9ND	9ND	-
3,3'- Dichlorobenzidine	9ND	9ND	9ND	5.0
2,4- Dichlorophenol	9ND	9ND	9ND	1.0
Diethylphthalate	9ND	9ND	9ND	50
Dimethyl Phthalate	9ND	9ND	9ND	50
2,4- Dimethylphenol	24ND	24ND	24ND	1.0
2,4- Dinitrophenol	9ND	9ND	9ND	1.0
2,4- Dinitrotoluene	9ND	9ND	9ND	5.0
2,6- Dinitrotoluene	9ND	9ND	9ND	5.0
Bis (2-Ethylhexyl) Phthalate	2.0JB	2.0JB	5.0JB	5.0

**TABLE 8 Groundwater Sample Analytical Summary
Semi-Volatile Organic Compounds – Method OLM 4.2**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

Semi – volatile Organic Compounds Page 4 of 4	VOAMW - 105	VOAMW - 105	VOAMW - 106	NYSDEC
	10/31/08	10/31/08 dup.	10/30/08	Groundwater Standards
Fluoranthene	9ND	9ND	22.0	50
Fluorene	9ND	9ND	3.0J	50
Hexachlorobenzene	9ND	9ND	9ND	0.04
Hexachlorobutadiene	9ND	9ND	9ND	0.5
Hexachlorocyclopentadiene	9ND	9ND	9ND	5.0
Hexachloroethane	9ND	9ND	9ND	5.0
Isophorone	9ND	9ND	9ND	5.0
2- Methylnaphthalene	9ND	9ND	9ND	-
4,6- Dinitro-2- Methylphenol	24ND	24ND	24ND	1.0
4- Chloro-3- Methylphenol	9ND	9ND	9ND	1.0
2- Methylphenol	9ND	9ND	9ND	1.0
4- Methylphenol	9ND	9ND	9ND	1.0
Naphthalene	9ND	9ND	4.0J	10
2- Nitroaniline	24ND	24ND	24ND	5.0
3- Nitroaniline	24ND	24ND	24ND	5.0
4- Nitroaniline	24ND	24ND	24ND	5.0
Nitrobenzene	9ND	9ND	9ND	0.4
2- Nitrophenol	9ND	9ND	9ND	1.0
4- Nitrophenol	24ND	24ND	24ND	1.0
N- Nitrosodiphenylamine	9ND	9ND	9ND	50
Di-n-octyl Phthalate	9ND	9ND	9ND	50
Pentachlorophenol	24ND	24ND	24ND	5.0
Phenanthrene	9ND	2.0J	11.0J	5.0
Phenol	9ND	9ND	9ND	1.0
4- Bromophenyl- Phenylether	9ND	9ND	9ND	-
4- Chlorophenyl- Phenylether	9ND	9ND	9ND	-
N- nitroso-di-n- Propylamine	9ND	9ND	9ND	-
Pyrene	9ND	9ND	18.0J	5.0
2,4,6- Trichlorophenol	9ND	9ND	9ND	1.0
2,4,5- Trichlorophenol	24ND	24ND	24ND	1.0
Total TICs Concentration and Number of TICs Detected	2.0 JB (1)	9.0 J,JB,JN (4)	60.0 J,JB,JN, (9)	NA

Notes: Groundwater samples collected on October 30, 2008 and October 31, 2008 by GeoQuest Environmental, Inc.

All concentrations expressed in parts per billion (ppb). Bold type indicates concentration above the laboratory detection limit and shaded concentrations exceed NYSDEC groundwater standard. See laboratory case narrative page 3 for **J, JN, JB** estimated values. - = No standard, ND = non-detection above detection limits. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

**TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 2 of 8	VOAMW-101 (10/30/08)	VOAMWR-101 (10/30/08)	VOAMW-102 (10/31/08)	VOAMWR-102 (10/31/08)	VOAMW-103 (10/31/08)	VOAMW-104 (10/30/08)	NYSDEC Groundwater Standard
Styrene	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1,2,2- Tetrachloroethane	10ND	10ND	10ND	10ND	10ND	10ND	5
Tetrachloroethene	10ND	10ND	10ND	10ND	10ND	10ND	5
Toluene	10ND	10ND	10ND	10ND	10ND	10ND	5
1,2,4- Trichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1,1- Trichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1,2- Trichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	5
Trichloroethene	10ND	10ND	10ND	10ND	10ND	10ND	5
Trichlorofluoromethane	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1,2-Trichloro-1,2,2- Trifluoroeth	10ND	10ND	10ND	10ND	10ND	10ND	-
Vinyl Chloride	10ND	10ND	10ND	10ND	10ND	10ND	2
M+P- Xylene	10ND	10ND	0.3J	10ND	10ND	10ND	5
O- Xylene	10ND	10ND	10ND	10ND	10ND	10ND	5
Tentatively Identified Compounds Total and number detected	ND	ND	39J,JN (5)	8J (1)	ND	ND	NA

Notes:

1. NA = Not Applicable, ND = Less than laboratory detection limits, J = estimated value, JB = estimated value and compound detected in blank, concentrations shown in bold type indicate detection above laboratory limits. Concentrations in bold type and shaded exceed the NYSDEC groundwater standards.
2. - = No standards available and ND = non detection above the laboratory limits.
3. Concentrations are expressed in parts per billion (ppb) equivalent to ug/l.
4. Samples collected by GeoQuest Environmental, Inc. on October 30, 2008 and October 31, 2008 and analyzed by Columbia Analytical Services, Rochester, New York (Lab ID # 10145).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

**TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 3 of 8	VOAMW-105 (10/31/08)	VOAMW-105 (10/31/08)dup.	VOAMW-106 (10/30/08)	TRIP BLANK (10/30/08)	NYDEC Groundwater Standard
Acetone	10ND	10ND	2.0JB	0.7JB	50
Benzene	10ND	10ND	10ND	10ND	0.7
Bromodichloromethane	10ND	10ND	10ND	10ND	50
Bromoform	10ND	10ND	10ND	10ND	50
Bromomethane	10ND	10ND	10ND	10ND	5
2- Butanone (MEK)	10ND	10ND	10ND	10ND	50
Methyl Tert- Butyl Ether	10ND	10ND	10ND	10ND	10
Carbon Disulfide	10ND	10ND	10ND	10ND	5
Carbon Tetrachloride	10ND	10ND	10ND	10ND	5
Chlorobenzene	10ND	10ND	2.0J	10ND	5
Chloroethane	10ND	10ND	10ND	10ND	5
Chloroform	10ND	10ND	10ND	10ND	7
Chloromethane	10ND	10ND	10ND	10ND	5
1,2- Dibromo-3- Chloropropane	10ND	10ND	10ND	10ND	-
Cyclohexane	10ND	10ND	10ND	10ND	-
Dibromochloromethane	10ND	10ND	10ND	10ND	50
1,2- Dibromoethane	10ND	10ND	10ND	10ND	0.6
1,2- Dichlorobenzene	10ND	10ND	0.4J	10ND	3
1,4- Dichlorobenzene	10ND	10ND	10ND	10ND	3
1,3- Dichlorobenzene	10ND	10ND	10ND	10ND	3
Dichlorodifluoromethane	10ND	10ND	10ND	10ND	-
1,1- Dichloroethane	10ND	10ND	10ND	10ND	5
1,2- Dichloroethane	10ND	10ND	10ND	10ND	5
1,1- Dichloroethene	10ND	10ND	10ND	10ND	5
Trans-1,2- Dichloroethene	10ND	10ND	10ND	10ND	5
Cis-1,2-Dichloroethene	10ND	10ND	10ND	10ND	5
1,2- Dichloropropane	10ND	10ND	10ND	10ND	5
Trans-1,3- Dichloropropene	10ND	10ND	10ND	10ND	5
Cis-1,3- Dichloropropene	10ND	10ND	10ND	10ND	5
Ethylbenzene	10ND	10ND	10ND	10ND	5
2- Hexanone	10ND	10ND	10ND	10ND	50
Isopropylbenzene	10ND	10ND	10ND	10ND	-
Methyl Acetate	10ND	10ND	10ND	10ND	-
Methylcyclohexane	0.3J	0.4J	10ND	10ND	-
Methylene Chloride	10ND	10ND	10ND	10ND	5
4- Methyl-2- Pentanone	10ND	10ND	10ND	10ND	5

**TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 4 of 8	VOAMW-105 (10/31/08)	VOAMW-105 (10/31/08)dup.	VOAMW-106 (10/30/08)	TRIP BLANK (10/30/08)	NYSDEC Groundwater Standard
Styrene	10ND	10ND	10ND	10ND	5
1,1,2,2- Tetrachloroethane	10ND	10ND	10ND	10ND	5
Tetrachloroethene	10ND	10ND	10ND	10ND	5
Toluene	0.3J	0.4J	10ND	10ND	5
1,2,4- Trichlorobenzene	10ND	10ND	10ND	10ND	-
1,1,1- Trichloroethane	10ND	10ND	10ND	10ND	5
1,1,2- Trichloroethane	10ND	10ND	10ND	10ND	5
Trichloroethene	10ND	10ND	10ND	10ND	5
Trichlorofluoromethane	10ND	10ND	10ND	10ND	-
1,1,2-Trichloro-1,2,2- Trifluoroeth	10ND	10ND	10ND	10ND	-
Vinyl Chloride	10ND	10ND	10ND	10ND	2
M+P- Xylene	10ND	10ND	10ND	10ND	5
O- Xylene	10ND	10ND	10ND	10ND	5
Tentatively Identified Compounds Total and number detected	ND	ND	ND	ND	NA

Notes:

1. NA = Not Applicable, ND = Less than laboratory detection limits, J = estimated value, JB = estimated value and compound detected in blank, concentrations shown in bold type indicate detection above laboratory detection limits. Concentrations in bold type and shaded exceed the NYSDEC groundwater standard.
2. - = No standards available and ND = non detection above the laboratory detection limits.
3. Concentrations are expressed in parts per billion (ppb) equivalent to ug/l.
4. Samples collected by GeoQuest Environmental, Inc. on October 30, 2008 and October 31, 2008 and analyzed by Columbia Analytical Services, Rochester, New York (Lab ID # 10145).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

**TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 6 of 8	VOAMW-101 (7/27/09)	VOAMW-101 Duplicate (7/27/09)	VOAMWR-101 (7/27/09)	VOAMW-102 (7/27/09)	VOAMWR-102 (7/27/09)	VOAMW-103 (7/27/09)	VOAMW-104 (7/27/09)	NYSDEC Groundwater Standard
Styrene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1,2,2- Tetrachloroethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Tetrachloroethene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Toluene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
1,2,4- Trichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1,1- Trichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1,2- Trichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Trichloroethene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Trichlorofluoromethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1,2-Trichloro-1,2,2- Trifluoroeth	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
Vinyl Chloride	10ND	10ND	10ND	10ND	10ND	10ND	10ND	2
M+P- Xylene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
O- Xylene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Tentatively Identified Compounds Total and number detected	ND	ND	ND	6.1JN (1)	9.4JN (1)	ND	ND	NA

Notes:

1. NA = Not Applicable, ND = Less than laboratory detection limits, J = estimated value, JB = estimated value and compound detected in blank, concentrations shown in bold type indicate detection above laboratory limits. Concentrations in bold type and shaded exceed the NYSDEC groundwater standards.
2. - = No standards available and ND = non detection above the laboratory limits.
3. Concentrations are expressed in parts per billion (ppb) equivalent to ug/l.
4. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 and analyzed by Columbia Analytical Services, Rochester, New York (Lab ID # 10145).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

**TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 7 of 8	VOAMW-105 (7/27/09)	VOAMW-106 (7/27/09)	NYDEC Groundwater Standard
Acetone	2.6J	1.5J	50
Benzene	10ND	10ND	0.7
Bromodichloromethane	10ND	10ND	50
Bromoform	10ND	10ND	50
Bromomethane	10ND	10ND	5
2- Butanone (MEK)	10ND	10ND	50
Methyl Tert- Butyl Ether	10ND	0.41J	10
Carbon Disulfide	10ND	10ND	5
Carbon Tetrachloride	10ND	10ND	5
Chlorobenzene	10ND	22	5
Chloroethane	10ND	10ND	5
Chloroform	10ND	10ND	7
Chloromethane	10ND	10ND	5
1,2- Dibromo-3- Chloropropane	10ND	10ND	-
Cyclohexane	10ND	10ND	-
Dibromochloromethane	10ND	10ND	50
1,2- Dibromoethane	10ND	10ND	0.6
1,2- Dichlorobenzene	10ND	1.7J	3
1,4- Dichlorobenzene	10ND	1.2J	3
1,3- Dichlorobenzene	10ND	10ND	3
Dichlorodifluoromethane	10ND	10ND	-
1,1- Dichloroethane	10ND	0.37J	5
1,2- Dichloroethane	10ND	10ND	5
1,1- Dichloroethene	10ND	10ND	5
Trans-1,2- Dichloroethene	10ND	10ND	5
Cis-1,2-Dichloroethene	10ND	10ND	5
1,2- Dichloropropane	10ND	10ND	5
Trans-1,3- Dichloropropene	10ND	10ND	5
Cis-1,3- Dichloropropene	10ND	10ND	5
Ethylbenzene	10ND	10ND	5
2- Hexanone	10ND	10ND	50
Isopropylbenzene	10ND	10ND	-
Methyl Acetate	10ND	10ND	-
Methylcyclohexane	10ND	10ND	-
Methylene Chloride	10ND	10ND	5
4- Methyl-2- Pentanone	10ND	10ND	5

**TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM**

Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 8 of 8	VOAMW-105 (7/27/09)	VOAMW-106 (7/27/09)	NYSDEC Groundwater Standard
Styrene	10ND	10ND	5
1,1,2,2- Tetrachloroethane	10ND	10ND	5
Tetrachloroethene	10ND	10ND	5
Toluene	10ND	10ND	5
1,2,4- Trichlorobenzene	10ND	10ND	-
1,1,1- Trichloroethane	10ND	10ND	5
1,1,2- Trichloroethane	10ND	10ND	5
Trichloroethene	10ND	10ND	5
Trichlorofluoromethane	10ND	10ND	-
1,1,2-Trichloro-1,2,2- Trifluoroeth	10ND	10ND	-
Vinyl Chloride	10ND	10ND	2
M+P- Xylene	10ND	10ND	5
O- Xylene	10ND	10ND	5
Tentatively Identified Compounds Total and number detected	ND	ND	NA

Notes:

1. NA = Not Applicable, ND = Less than laboratory detection limits, J = estimated value, JB = estimated value and compound detected in blank, concentrations shown in bold type indicate detection above laboratory limits. Concentrations in bold type and shaded exceed the NYSDEC groundwater standard.
2. - = No standards available and ND = non detection above the laboratory detection limits.
3. Concentrations are expressed in parts per billion (ppb) equivalent to ug/l.
4. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 and analyzed by Columbia Analytical Services, Rochester, New York (Lab ID # 10145).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.



APPENDIX 4



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For
Bergmann Associates

For Lab Project ID

221928

Referencing

2022 Annual Sample Event - VOA - 214 Lake Ave

Prepared

Monday, May 16, 2022

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

Portions of the enclosed report reflects analysis that has been subcontracted and are presented in their original form.

Emily Farmer

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, May 16, 2022



Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-101

Lab Sample ID: 221928-01

Date Sampled: 4/27/2022 18:30

Matrix: Groundwater

Date Received 4/29/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.0407	mg/L		5/10/2022 11:45
Method Reference(s):	EPA 7470A			
Preparation Date:	5/10/2022			
Data File:	Hg220510A			

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	5.07	mg/L		5/2/2022 13:52
Antimony	< 0.0600	mg/L		5/2/2022 13:52
Arsenic	0.0271	mg/L		5/2/2022 13:52
Barium	0.407	mg/L		5/2/2022 13:52
Beryllium	< 0.00500	mg/L		5/2/2022 13:52
Cadmium	0.00258	mg/L	J	5/2/2022 13:52
Calcium	244	mg/L		5/2/2022 13:52
Chromium	0.0161	mg/L		5/3/2022 15:37
Cobalt	< 0.0500	mg/L		5/2/2022 13:52
Copper	0.132	mg/L		5/2/2022 13:52
Iron	30.9	mg/L		5/2/2022 13:52
Lead	0.914	mg/L		5/2/2022 13:52
Magnesium	61.2	mg/L		5/2/2022 13:52
Manganese	1.19	mg/L		5/2/2022 13:52
Nickel	< 0.0400	mg/L		5/2/2022 13:52
Potassium	13.9	mg/L		5/2/2022 13:52
Selenium	< 0.0200	mg/L		5/2/2022 13:52
Silver	< 0.0100	mg/L		5/2/2022 13:52
Sodium	299	mg/L		5/2/2022 13:52
Thallium	< 0.0250	mg/L		5/2/2022 13:52
Vanadium	0.0222	mg/L	J	5/2/2022 13:52

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-101

Lab Sample ID: 221928-01

Date Sampled: 4/27/2022 18:30

Matrix: Groundwater

Date Received 4/29/2022

Zinc **0.470** mg/L 5/2/2022 13:52

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 4/29/2022

Data File: 220502B

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 17:53
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 17:53
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 17:53
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 17:53
1,1-Dichloroethene	< 2.00	ug/L		5/6/2022 17:53
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 17:53
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 17:53
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 17:53
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 17:53
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 17:53
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 17:53
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 17:53
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 17:53
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 17:53
1,4-Dioxane	< 10.0	ug/L		5/6/2022 17:53
2-Butanone	< 10.0	ug/L		5/6/2022 17:53
2-Hexanone	< 5.00	ug/L		5/6/2022 17:53
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 17:53
Acetone	< 10.0	ug/L		5/6/2022 17:53
Benzene	< 1.00	ug/L		5/6/2022 17:53
Bromochloromethane	< 5.00	ug/L		5/6/2022 17:53
Bromodichloromethane	< 2.00	ug/L		5/6/2022 17:53
Bromoform	< 5.00	ug/L		5/6/2022 17:53
Bromomethane	< 2.00	ug/L		5/6/2022 17:53

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Lab Project ID: 221928

Client: Bergmann Associates

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-101

Lab Sample ID: 221928-01

Date Sampled: 4/27/2022 18:30

Matrix: Groundwater

Date Received: 4/29/2022

Carbon disulfide	< 2.00	ug/L	5/6/2022 17:53
Carbon Tetrachloride	< 2.00	ug/L	5/6/2022 17:53
Chlorobenzene	< 2.00	ug/L	5/6/2022 17:53
Chloroethane	< 2.00	ug/L	5/6/2022 17:53
Chloroform	< 2.00	ug/L	5/6/2022 17:53
Chloromethane	< 2.00	ug/L	5/6/2022 17:53
cis-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 17:53
cis-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 17:53
Cyclohexane	< 10.0	ug/L	5/6/2022 17:53
Dibromochloromethane	< 2.00	ug/L	5/6/2022 17:53
Dichlorodifluoromethane	< 2.00	ug/L	5/6/2022 17:53
Ethylbenzene	< 2.00	ug/L	5/6/2022 17:53
Freon 113	< 2.00	ug/L	5/6/2022 17:53
Isopropylbenzene	< 2.00	ug/L	5/6/2022 17:53
m,p-Xylene	< 2.00	ug/L	5/6/2022 17:53
Methyl acetate	< 2.00	ug/L	5/6/2022 17:53
Methyl tert-butyl Ether	< 2.00	ug/L	5/6/2022 17:53
Methylcyclohexane	< 2.00	ug/L	5/6/2022 17:53
Methylene chloride	< 5.00	ug/L	5/6/2022 17:53
o-Xylene	< 2.00	ug/L	5/6/2022 17:53
Styrene	< 5.00	ug/L	5/6/2022 17:53
Tetrachloroethene	< 2.00	ug/L	5/6/2022 17:53
Toluene	< 2.00	ug/L	5/6/2022 17:53
trans-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 17:53
trans-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 17:53
Trichloroethene	< 2.00	ug/L	5/6/2022 17:53
Trichlorofluoromethane	< 2.00	ug/L	5/6/2022 17:53
Vinyl chloride	< 2.00	ug/L	5/6/2022 17:53

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-101

Lab Sample ID: 221928-01

Date Sampled: 4/27/2022 18:30

Matrix: Groundwater

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	110	81.1 - 136		5/6/2022 17:53
4-Bromofluorobenzene	94.6	75.8 - 132		5/6/2022 17:53
Pentafluorobenzene	111	82 - 132		5/6/2022 17:53
Toluene-D8	110	64.6 - 137		5/6/2022 17:53

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z09000.D

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Report Prepared Monday, May 16, 2022



Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MWR-101

Lab Sample ID: 221928-02

Date Sampled: 4/27/2022 18:22

Matrix: Groundwater

Date Received 4/29/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.000765	mg/L		5/10/2022 10:29
Method Reference(s):	EPA 7470A			
Preparation Date:	5/10/2022			
Data File:	Hg220510A			

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	3.64	mg/L		5/2/2022 13:57
Antimony	< 0.0600	mg/L		5/2/2022 13:57
Arsenic	0.00775	mg/L	J	5/2/2022 13:57
Barium	0.0782	mg/L	J	5/2/2022 13:57
Beryllium	< 0.00500	mg/L		5/2/2022 13:57
Cadmium	< 0.00500	mg/L		5/2/2022 13:57
Calcium	158	mg/L		5/2/2022 13:57
Chromium	< 0.0100	mg/L		5/2/2022 13:57
Cobalt	< 0.0500	mg/L		5/2/2022 13:57
Copper	0.0156	mg/L	J	5/2/2022 13:57
Iron	3.63	mg/L		5/2/2022 13:57
Lead	0.0261	mg/L		5/6/2022 16:21
Magnesium	69.7	mg/L		5/2/2022 13:57
Manganese	0.686	mg/L		5/2/2022 13:57
Nickel	< 0.0400	mg/L		5/2/2022 13:57
Potassium	9.68	mg/L		5/2/2022 13:57
Selenium	< 0.0200	mg/L		5/2/2022 13:57
Silver	< 0.0100	mg/L		5/2/2022 13:57
Sodium	297	mg/L		5/2/2022 13:57
Thallium	< 0.0250	mg/L		5/2/2022 13:57
Vanadium	< 0.0250	mg/L		5/2/2022 13:57

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MWR-101

Lab Sample ID: 221928-02

Date Sampled: 4/27/2022 18:22

Matrix: Groundwater

Date Received 4/29/2022

Zinc **0.106** mg/L 5/2/2022 13:57

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 4/29/2022

Data File: 220502B

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 17:33
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 17:33
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 17:33
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 17:33
1,1-Dichloroethene	< 2.00	ug/L		5/6/2022 17:33
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 17:33
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 17:33
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 17:33
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 17:33
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 17:33
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 17:33
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 17:33
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 17:33
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 17:33
1,4-Dioxane	< 10.0	ug/L		5/6/2022 17:33
2-Butanone	< 10.0	ug/L		5/6/2022 17:33
2-Hexanone	< 5.00	ug/L		5/6/2022 17:33
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 17:33
Acetone	< 10.0	ug/L		5/6/2022 17:33
Benzene	< 1.00	ug/L		5/6/2022 17:33
Bromochloromethane	< 5.00	ug/L		5/6/2022 17:33
Bromodichloromethane	< 2.00	ug/L		5/6/2022 17:33
Bromoform	< 5.00	ug/L		5/6/2022 17:33
Bromomethane	< 2.00	ug/L		5/6/2022 17:33

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MWR-101

Lab Sample ID: 221928-02

Date Sampled: 4/27/2022 18:22

Matrix: Groundwater

Date Received 4/29/2022

Carbon disulfide	< 2.00	ug/L	5/6/2022 17:33
Carbon Tetrachloride	< 2.00	ug/L	5/6/2022 17:33
Chlorobenzene	< 2.00	ug/L	5/6/2022 17:33
Chloroethane	< 2.00	ug/L	5/6/2022 17:33
Chloroform	< 2.00	ug/L	5/6/2022 17:33
Chloromethane	< 2.00	ug/L	5/6/2022 17:33
cis-1,2-Dichloroethene	8.18	ug/L	5/6/2022 17:33
cis-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 17:33
Cyclohexane	< 10.0	ug/L	5/6/2022 17:33
Dibromochloromethane	< 2.00	ug/L	5/6/2022 17:33
Dichlorodifluoromethane	< 2.00	ug/L	5/6/2022 17:33
Ethylbenzene	< 2.00	ug/L	5/6/2022 17:33
Freon 113	< 2.00	ug/L	5/6/2022 17:33
Isopropylbenzene	< 2.00	ug/L	5/6/2022 17:33
m,p-Xylene	< 2.00	ug/L	5/6/2022 17:33
Methyl acetate	< 2.00	ug/L	5/6/2022 17:33
Methyl tert-butyl Ether	< 2.00	ug/L	5/6/2022 17:33
Methylcyclohexane	< 2.00	ug/L	5/6/2022 17:33
Methylene chloride	< 5.00	ug/L	5/6/2022 17:33
o-Xylene	< 2.00	ug/L	5/6/2022 17:33
Styrene	< 5.00	ug/L	5/6/2022 17:33
Tetrachloroethene	< 2.00	ug/L	5/6/2022 17:33
Toluene	< 2.00	ug/L	5/6/2022 17:33
trans-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 17:33
trans-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 17:33
Trichloroethene	< 2.00	ug/L	5/6/2022 17:33
Trichlorofluoromethane	< 2.00	ug/L	5/6/2022 17:33
Vinyl chloride	< 2.00	ug/L	5/6/2022 17:33

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MWR-101

Lab Sample ID: 221928-02

Date Sampled: 4/27/2022 18:22

Matrix: Groundwater

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	109	81.1 - 136		5/6/2022 17:33
4-Bromofluorobenzene	90.1	75.8 - 132		5/6/2022 17:33
Pentafluorobenzene	112	82 - 132		5/6/2022 17:33
Toluene-D8	109	64.6 - 137		5/6/2022 17:33

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z08999.D

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Report Prepared Monday, May 16, 2022



Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-103

Lab Sample ID: 221928-03

Date Sampled: 4/27/2022 13:10

Matrix: Groundwater

Date Received 4/29/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.00537	mg/L		5/10/2022 10:31
Method Reference(s):	EPA 7470A			
Preparation Date:	5/10/2022			
Data File:	Hg220510A			

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	1.16	mg/L		5/2/2022 14:02
Antimony	< 0.0600	mg/L		5/2/2022 14:02
Arsenic	0.00759	mg/L	J	5/2/2022 14:02
Barium	0.348	mg/L		5/2/2022 14:02
Beryllium	< 0.00500	mg/L		5/2/2022 14:02
Cadmium	< 0.00500	mg/L		5/2/2022 14:02
Calcium	272	mg/L		5/2/2022 14:02
Chromium	< 0.0100	mg/L		5/2/2022 14:02
Cobalt	< 0.0500	mg/L		5/2/2022 14:02
Copper	0.270	mg/L		5/2/2022 14:02
Iron	7.96	mg/L		5/2/2022 14:02
Lead	0.232	mg/L		5/2/2022 14:02
Magnesium	46.9	mg/L		5/2/2022 14:02
Manganese	0.506	mg/L		5/2/2022 14:02
Nickel	< 0.0400	mg/L		5/2/2022 14:02
Potassium	13.5	mg/L		5/2/2022 14:02
Selenium	< 0.0200	mg/L		5/2/2022 14:02
Silver	< 0.0100	mg/L		5/2/2022 14:02
Sodium	306	mg/L		5/2/2022 14:02
Thallium	< 0.0250	mg/L		5/2/2022 14:02
Vanadium	< 0.0250	mg/L		5/2/2022 14:02

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-103

Lab Sample ID: 221928-03

Date Sampled: 4/27/2022 13:10

Matrix: Groundwater

Date Received 4/29/2022

Zinc **0.405** mg/L 5/2/2022 14:02

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 4/29/2022

Data File: 220502B

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 17:14
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 17:14
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 17:14
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 17:14
1,1-Dichloroethene	< 2.00	ug/L		5/6/2022 17:14
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 17:14
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 17:14
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 17:14
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 17:14
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 17:14
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 17:14
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 17:14
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 17:14
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 17:14
1,4-Dioxane	< 10.0	ug/L		5/6/2022 17:14
2-Butanone	< 10.0	ug/L		5/6/2022 17:14
2-Hexanone	< 5.00	ug/L		5/6/2022 17:14
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 17:14
Acetone	< 10.0	ug/L		5/6/2022 17:14
Benzene	< 1.00	ug/L		5/6/2022 17:14
Bromochloromethane	< 5.00	ug/L		5/6/2022 17:14
Bromodichloromethane	< 2.00	ug/L		5/6/2022 17:14
Bromoform	< 5.00	ug/L		5/6/2022 17:14
Bromomethane	< 2.00	ug/L		5/6/2022 17:14

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-103

Lab Sample ID: 221928-03

Date Sampled: 4/27/2022 13:10

Matrix: Groundwater

Date Received 4/29/2022

Carbon disulfide	< 2.00	ug/L	5/6/2022 17:14
Carbon Tetrachloride	< 2.00	ug/L	5/6/2022 17:14
Chlorobenzene	< 2.00	ug/L	5/6/2022 17:14
Chloroethane	< 2.00	ug/L	5/6/2022 17:14
Chloroform	< 2.00	ug/L	5/6/2022 17:14
Chloromethane	< 2.00	ug/L	5/6/2022 17:14
cis-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 17:14
cis-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 17:14
Cyclohexane	< 10.0	ug/L	5/6/2022 17:14
Dibromochloromethane	< 2.00	ug/L	5/6/2022 17:14
Dichlorodifluoromethane	< 2.00	ug/L	5/6/2022 17:14
Ethylbenzene	< 2.00	ug/L	5/6/2022 17:14
Freon 113	< 2.00	ug/L	5/6/2022 17:14
Isopropylbenzene	< 2.00	ug/L	5/6/2022 17:14
m,p-Xylene	< 2.00	ug/L	5/6/2022 17:14
Methyl acetate	< 2.00	ug/L	5/6/2022 17:14
Methyl tert-butyl Ether	< 2.00	ug/L	5/6/2022 17:14
Methylcyclohexane	< 2.00	ug/L	5/6/2022 17:14
Methylene chloride	< 5.00	ug/L	5/6/2022 17:14
o-Xylene	< 2.00	ug/L	5/6/2022 17:14
Styrene	< 5.00	ug/L	5/6/2022 17:14
Tetrachloroethene	< 2.00	ug/L	5/6/2022 17:14
Toluene	< 2.00	ug/L	5/6/2022 17:14
trans-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 17:14
trans-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 17:14
Trichloroethene	< 2.00	ug/L	5/6/2022 17:14
Trichlorofluoromethane	< 2.00	ug/L	5/6/2022 17:14
Vinyl chloride	< 2.00	ug/L	5/6/2022 17:14

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-103

Lab Sample ID: 221928-03

Date Sampled: 4/27/2022 13:10

Matrix: Groundwater

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	103	81.1 - 136		5/6/2022 17:14
4-Bromofluorobenzene	83.2	75.8 - 132		5/6/2022 17:14
Pentafluorobenzene	111	82 - 132		5/6/2022 17:14
Toluene-D8	103	64.6 - 137		5/6/2022 17:14

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z08998.D

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-102

Lab Sample ID: 221928-04

Date Sampled: 4/27/2022 10:00

Matrix: Groundwater

Date Received 4/29/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.000116	mg/L	J	5/10/2022 10:32
Method Reference(s):	EPA 7470A			
Preparation Date:	5/10/2022			
Data File:	Hg220510A			

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	4.12	mg/L		5/2/2022 14:17
Antimony	< 0.0600	mg/L		5/2/2022 14:17
Arsenic	0.0202	mg/L		5/2/2022 14:17
Barium	0.839	mg/L		5/2/2022 14:17
Beryllium	< 0.00500	mg/L		5/2/2022 14:17
Cadmium	0.00934	mg/L		5/2/2022 14:17
Calcium	766	mg/L		5/3/2022 15:46
Chromium	0.00579	mg/L	J	5/2/2022 14:17
Cobalt	< 0.0500	mg/L		5/2/2022 14:17
Copper	0.0170	mg/L	J	5/3/2022 15:51
Iron	56.8	mg/L		5/2/2022 14:17
Lead	0.0544	mg/L		5/2/2022 14:17
Magnesium	201	mg/L		5/2/2022 14:17
Manganese	2.44	mg/L		5/2/2022 14:17
Nickel	< 0.0400	mg/L		5/2/2022 14:17
Potassium	59.1	mg/L		5/2/2022 14:17
Selenium	0.0438	mg/L		5/2/2022 14:17
Silver	0.0420	mg/L		5/2/2022 14:17
Sodium	2330	mg/L		5/3/2022 15:46
Thallium	0.0258	mg/L		5/2/2022 14:17
Vanadium	< 0.0250	mg/L		5/2/2022 14:17

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-102

Lab Sample ID: 221928-04

Date Sampled: 4/27/2022 10:00

Matrix: Groundwater

Date Received 4/29/2022

Zinc **0.0959** mg/L 5/2/2022 14:17

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 4/29/2022

Data File: 220502B

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 16:55
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 16:55
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 16:55
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 16:55
1,1-Dichloroethene	< 2.00	ug/L		5/6/2022 16:55
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 16:55
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 16:55
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 16:55
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 16:55
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 16:55
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 16:55
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 16:55
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 16:55
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 16:55
1,4-Dioxane	< 10.0	ug/L		5/6/2022 16:55
2-Butanone	< 10.0	ug/L		5/6/2022 16:55
2-Hexanone	< 5.00	ug/L		5/6/2022 16:55
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 16:55
Acetone	< 10.0	ug/L		5/6/2022 16:55
Benzene	< 1.00	ug/L		5/6/2022 16:55
Bromochloromethane	< 5.00	ug/L		5/6/2022 16:55
Bromodichloromethane	< 2.00	ug/L		5/6/2022 16:55
Bromoform	< 5.00	ug/L		5/6/2022 16:55
Bromomethane	< 2.00	ug/L		5/6/2022 16:55

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Lab Project ID: 221928

Client: Bergmann Associates

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-102

Lab Sample ID: 221928-04

Date Sampled: 4/27/2022 10:00

Matrix: Groundwater

Date Received: 4/29/2022

Carbon disulfide	< 2.00	ug/L	5/6/2022 16:55
Carbon Tetrachloride	< 2.00	ug/L	5/6/2022 16:55
Chlorobenzene	< 2.00	ug/L	5/6/2022 16:55
Chloroethane	< 2.00	ug/L	5/6/2022 16:55
Chloroform	< 2.00	ug/L	5/6/2022 16:55
Chloromethane	< 2.00	ug/L	5/6/2022 16:55
cis-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 16:55
cis-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 16:55
Cyclohexane	< 10.0	ug/L	5/6/2022 16:55
Dibromochloromethane	< 2.00	ug/L	5/6/2022 16:55
Dichlorodifluoromethane	< 2.00	ug/L	5/6/2022 16:55
Ethylbenzene	< 2.00	ug/L	5/6/2022 16:55
Freon 113	< 2.00	ug/L	5/6/2022 16:55
Isopropylbenzene	< 2.00	ug/L	5/6/2022 16:55
m,p-Xylene	< 2.00	ug/L	5/6/2022 16:55
Methyl acetate	< 2.00	ug/L	5/6/2022 16:55
Methyl tert-butyl Ether	< 2.00	ug/L	5/6/2022 16:55
Methylcyclohexane	< 2.00	ug/L	5/6/2022 16:55
Methylene chloride	< 5.00	ug/L	5/6/2022 16:55
o-Xylene	< 2.00	ug/L	5/6/2022 16:55
Styrene	< 5.00	ug/L	5/6/2022 16:55
Tetrachloroethene	< 2.00	ug/L	5/6/2022 16:55
Toluene	< 2.00	ug/L	5/6/2022 16:55
trans-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 16:55
trans-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 16:55
Trichloroethene	< 2.00	ug/L	5/6/2022 16:55
Trichlorofluoromethane	< 2.00	ug/L	5/6/2022 16:55
Vinyl chloride	< 2.00	ug/L	5/6/2022 16:55

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-102

Lab Sample ID: 221928-04

Date Sampled: 4/27/2022 10:00

Matrix: Groundwater

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	105	81.1 - 136		5/6/2022	16:55
4-Bromofluorobenzene	89.6	75.8 - 132		5/6/2022	16:55
Pentafluorobenzene	104	82 - 132		5/6/2022	16:55
Toluene-D8	102	64.6 - 137		5/6/2022	16:55

Method Reference(s): EPA 8260C
EPA 5030C

Data File: z08997.D

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Report Prepared Monday, May 16, 2022



Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MWR-102

Lab Sample ID: 221928-05

Date Sampled: 4/27/2022 12:50

Matrix: Groundwater

Date Received 4/29/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	< 0.000200	mg/L		5/10/2022 10:34
Method Reference(s):	EPA 7470A			
Preparation Date:	5/10/2022			
Data File:	Hg220510A			

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	1.71	mg/L		5/2/2022 14:21
Antimony	< 0.0600	mg/L		5/2/2022 14:21
Arsenic	< 0.0100	mg/L		5/2/2022 14:21
Barium	0.0976	mg/L	J	5/2/2022 14:21
Beryllium	< 0.00500	mg/L		5/2/2022 14:21
Cadmium	0.00285	mg/L	J	5/2/2022 14:21
Calcium	148	mg/L		5/2/2022 14:21
Chromium	< 0.0100	mg/L		5/2/2022 14:21
Cobalt	< 0.0500	mg/L		5/2/2022 14:21
Copper	< 0.0200	mg/L		5/2/2022 14:21
Iron	2.81	mg/L		5/2/2022 14:21
Lead	0.00790	mg/L	J	5/3/2022 15:55
Magnesium	82.9	mg/L		5/2/2022 14:21
Manganese	0.247	mg/L		5/2/2022 14:21
Nickel	< 0.0400	mg/L		5/2/2022 14:21
Potassium	12.5	mg/L		5/2/2022 14:21
Selenium	0.0195	mg/L	J	5/2/2022 14:21
Silver	0.0109	mg/L		5/2/2022 14:21
Sodium	326	mg/L		5/2/2022 14:21
Thallium	< 0.0250	mg/L		5/2/2022 14:21
Vanadium	< 0.0250	mg/L		5/2/2022 14:21

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MWR-102

Lab Sample ID: 221928-05

Date Sampled: 4/27/2022 12:50

Matrix: Groundwater

Date Received 4/29/2022

Zinc **0.0903** mg/L 5/2/2022 14:21

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 4/29/2022

Data File: 220502B

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 16:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 16:35
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 16:35
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 16:35
1,1-Dichloroethene	< 2.00	ug/L		5/6/2022 16:35
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 16:35
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 16:35
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 16:35
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 16:35
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 16:35
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 16:35
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 16:35
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 16:35
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 16:35
1,4-Dioxane	< 10.0	ug/L		5/6/2022 16:35
2-Butanone	< 10.0	ug/L		5/6/2022 16:35
2-Hexanone	< 5.00	ug/L		5/6/2022 16:35
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 16:35
Acetone	< 10.0	ug/L		5/6/2022 16:35
Benzene	< 1.00	ug/L		5/6/2022 16:35
Bromochloromethane	< 5.00	ug/L		5/6/2022 16:35
Bromodichloromethane	< 2.00	ug/L		5/6/2022 16:35
Bromoform	< 5.00	ug/L		5/6/2022 16:35
Bromomethane	< 2.00	ug/L		5/6/2022 16:35

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Lab Project ID: 221928

Client: Bergmann Associates

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MWR-102

Lab Sample ID: 221928-05

Date Sampled: 4/27/2022 12:50

Matrix: Groundwater

Date Received: 4/29/2022

Carbon disulfide	< 2.00	ug/L		5/6/2022 16:35
Carbon Tetrachloride	< 2.00	ug/L		5/6/2022 16:35
Chlorobenzene	< 2.00	ug/L		5/6/2022 16:35
Chloroethane	< 2.00	ug/L		5/6/2022 16:35
Chloroform	< 2.00	ug/L		5/6/2022 16:35
Chloromethane	< 2.00	ug/L		5/6/2022 16:35
cis-1,2-Dichloroethene	1.65	ug/L	J	5/6/2022 16:35
cis-1,3-Dichloropropene	< 2.00	ug/L		5/6/2022 16:35
Cyclohexane	< 10.0	ug/L		5/6/2022 16:35
Dibromochloromethane	< 2.00	ug/L		5/6/2022 16:35
Dichlorodifluoromethane	< 2.00	ug/L		5/6/2022 16:35
Ethylbenzene	< 2.00	ug/L		5/6/2022 16:35
Freon 113	< 2.00	ug/L		5/6/2022 16:35
Isopropylbenzene	< 2.00	ug/L		5/6/2022 16:35
m,p-Xylene	< 2.00	ug/L		5/6/2022 16:35
Methyl acetate	< 2.00	ug/L		5/6/2022 16:35
Methyl tert-butyl Ether	14.8	ug/L		5/6/2022 16:35
Methylcyclohexane	< 2.00	ug/L		5/6/2022 16:35
Methylene chloride	< 5.00	ug/L		5/6/2022 16:35
o-Xylene	< 2.00	ug/L		5/6/2022 16:35
Styrene	< 5.00	ug/L		5/6/2022 16:35
Tetrachloroethene	< 2.00	ug/L		5/6/2022 16:35
Toluene	< 2.00	ug/L		5/6/2022 16:35
trans-1,2-Dichloroethene	< 2.00	ug/L		5/6/2022 16:35
trans-1,3-Dichloropropene	< 2.00	ug/L		5/6/2022 16:35
Trichloroethene	< 2.00	ug/L		5/6/2022 16:35
Trichlorofluoromethane	< 2.00	ug/L		5/6/2022 16:35
Vinyl chloride	< 2.00	ug/L		5/6/2022 16:35

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MWR-102

Lab Sample ID: 221928-05

Date Sampled: 4/27/2022 12:50

Matrix: Groundwater

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	115	81.1 - 136		5/6/2022 16:35
4-Bromofluorobenzene	97.0	75.8 - 132		5/6/2022 16:35
Pentafluorobenzene	120	82 - 132		5/6/2022 16:35
Toluene-D8	115	64.6 - 137		5/6/2022 16:35

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z08996.D

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Report Prepared Monday, May 16, 2022



Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-105

Lab Sample ID: 221928-06

Date Sampled: 4/27/2022 17:50

Matrix: Groundwater

Date Received 4/29/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.000543	mg/L		5/10/2022 10:42
Method Reference(s):	EPA 7470A			
Preparation Date:	5/10/2022			
Data File:	Hg220510A			

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	68.7	mg/L		5/2/2022 14:36
Antimony	< 0.0600	mg/L		5/2/2022 14:36
Arsenic	0.0480	mg/L		5/2/2022 14:36
Barium	0.214	mg/L		5/2/2022 14:36
Beryllium	0.00302	mg/L	J	5/2/2022 14:36
Cadmium	0.00708	mg/L		5/2/2022 14:36
Calcium	1080	mg/L		5/3/2022 16:00
Chromium	0.0773	mg/L		5/2/2022 14:36
Cobalt	0.0442	mg/L	J	5/2/2022 14:36
Copper	0.0883	mg/L		5/4/2022 14:14
Iron	102	mg/L		5/2/2022 14:36
Lead	0.156	mg/L		5/2/2022 14:36
Magnesium	366	mg/L		5/2/2022 14:36
Manganese	2.07	mg/L		5/2/2022 14:36
Nickel	0.0737	mg/L		5/2/2022 14:36
Potassium	41.6	mg/L		5/2/2022 14:36
Selenium	0.0187	mg/L	J	5/2/2022 14:36
Silver	< 0.0100	mg/L		5/2/2022 14:36
Sodium	199	mg/L		5/2/2022 14:36
Thallium	< 0.0250	mg/L		5/2/2022 14:36
Vanadium	0.0909	mg/L		5/2/2022 14:36

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-105

Lab Sample ID: 221928-06

Date Sampled: 4/27/2022 17:50

Matrix: Groundwater

Date Received 4/29/2022

Zinc **0.136** mg/L 5/2/2022 14:36

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/29/2022
Data File: 220502B

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 16:16
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 16:16
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 16:16
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 16:16
1,1-Dichloroethene	< 2.00	ug/L		5/6/2022 16:16
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 16:16
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 16:16
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 16:16
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 16:16
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 16:16
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 16:16
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 16:16
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 16:16
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 16:16
1,4-Dioxane	< 10.0	ug/L		5/6/2022 16:16
2-Butanone	< 10.0	ug/L		5/6/2022 16:16
2-Hexanone	< 5.00	ug/L		5/6/2022 16:16
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 16:16
Acetone	< 10.0	ug/L		5/6/2022 16:16
Benzene	< 1.00	ug/L		5/6/2022 16:16
Bromochloromethane	< 5.00	ug/L		5/6/2022 16:16
Bromodichloromethane	< 2.00	ug/L		5/6/2022 16:16
Bromoform	< 5.00	ug/L		5/6/2022 16:16
Bromomethane	< 2.00	ug/L		5/6/2022 16:16

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-105

Lab Sample ID: 221928-06

Date Sampled: 4/27/2022 17:50

Matrix: Groundwater

Date Received 4/29/2022

Carbon disulfide	< 2.00	ug/L		5/6/2022 16:16
Carbon Tetrachloride	< 2.00	ug/L		5/6/2022 16:16
Chlorobenzene	< 2.00	ug/L		5/6/2022 16:16
Chloroethane	< 2.00	ug/L		5/6/2022 16:16
Chloroform	< 2.00	ug/L		5/6/2022 16:16
Chloromethane	< 2.00	ug/L		5/6/2022 16:16
cis-1,2-Dichloroethene	< 2.00	ug/L		5/6/2022 16:16
cis-1,3-Dichloropropene	< 2.00	ug/L		5/6/2022 16:16
Cyclohexane	< 10.0	ug/L		5/6/2022 16:16
Dibromochloromethane	< 2.00	ug/L		5/6/2022 16:16
Dichlorodifluoromethane	< 2.00	ug/L		5/6/2022 16:16
Ethylbenzene	< 2.00	ug/L		5/6/2022 16:16
Freon 113	< 2.00	ug/L		5/6/2022 16:16
Isopropylbenzene	< 2.00	ug/L		5/6/2022 16:16
m,p-Xylene	< 2.00	ug/L		5/6/2022 16:16
Methyl acetate	< 2.00	ug/L		5/6/2022 16:16
Methyl tert-butyl Ether	< 2.00	ug/L		5/6/2022 16:16
Methylcyclohexane	1.37	ug/L	J	5/6/2022 16:16
Methylene chloride	< 5.00	ug/L		5/6/2022 16:16
o-Xylene	< 2.00	ug/L		5/6/2022 16:16
Styrene	< 5.00	ug/L		5/6/2022 16:16
Tetrachloroethene	< 2.00	ug/L		5/6/2022 16:16
Toluene	< 2.00	ug/L		5/6/2022 16:16
trans-1,2-Dichloroethene	< 2.00	ug/L		5/6/2022 16:16
trans-1,3-Dichloropropene	< 2.00	ug/L		5/6/2022 16:16
Trichloroethene	< 2.00	ug/L		5/6/2022 16:16
Trichlorofluoromethane	< 2.00	ug/L		5/6/2022 16:16
Vinyl chloride	< 2.00	ug/L		5/6/2022 16:16

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-105

Lab Sample ID: 221928-06

Date Sampled: 4/27/2022 17:50

Matrix: Groundwater

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	113	81.1 - 136		5/6/2022	16:16
4-Bromofluorobenzene	97.9	75.8 - 132		5/6/2022	16:16
Pentafluorobenzene	111	82 - 132		5/6/2022	16:16
Toluene-D8	112	64.6 - 137		5/6/2022	16:16

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z08995.D

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-106

Lab Sample ID: 221928-07

Date Sampled: 4/27/2022 18:00

Matrix: Groundwater

Date Received 4/29/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.0261	mg/L		5/10/2022 11:47
Method Reference(s):	EPA 7470A			
Preparation Date:	5/10/2022			
Data File:	Hg220510A			

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	68.7	mg/L		5/2/2022 14:41
Antimony	0.0398	mg/L	J	5/2/2022 14:41
Arsenic	0.109	mg/L		5/2/2022 14:41
Barium	1.61	mg/L		5/2/2022 14:41
Beryllium	0.00318	mg/L	J	5/2/2022 14:41
Cadmium	0.0175	mg/L		5/2/2022 14:41
Calcium	367	mg/L		5/2/2022 14:41
Chromium	0.192	mg/L		5/2/2022 14:41
Cobalt	0.0429	mg/L	J	5/2/2022 14:41
Copper	1.43	mg/L		5/2/2022 14:41
Iron	173	mg/L		5/2/2022 14:41
Lead	2.90	mg/L		5/2/2022 14:41
Magnesium	103	mg/L		5/2/2022 14:41
Manganese	3.33	mg/L		5/2/2022 14:41
Nickel	0.212	mg/L		5/2/2022 14:41
Potassium	18.3	mg/L		5/2/2022 14:41
Selenium	0.0235	mg/L		5/2/2022 14:41
Silver	< 0.0100	mg/L		5/2/2022 14:41
Sodium	207	mg/L		5/2/2022 14:41
Thallium	< 0.0250	mg/L		5/2/2022 14:41
Vanadium	0.140	mg/L		5/2/2022 14:41

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-106

Lab Sample ID: 221928-07

Date Sampled: 4/27/2022 18:00

Matrix: Groundwater

Date Received 4/29/2022

Zinc **3.85** mg/L 5/2/2022 14:41

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/29/2022
Data File: 220502B

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 15:57
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 15:57
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 15:57
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 15:57
1,1-Dichloroethene	< 2.00	ug/L		5/6/2022 15:57
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 15:57
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 15:57
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 15:57
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 15:57
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 15:57
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 15:57
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 15:57
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 15:57
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 15:57
1,4-Dioxane	< 10.0	ug/L		5/6/2022 15:57
2-Butanone	< 10.0	ug/L		5/6/2022 15:57
2-Hexanone	< 5.00	ug/L		5/6/2022 15:57
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 15:57
Acetone	< 10.0	ug/L		5/6/2022 15:57
Benzene	< 1.00	ug/L		5/6/2022 15:57
Bromochloromethane	< 5.00	ug/L		5/6/2022 15:57
Bromodichloromethane	< 2.00	ug/L		5/6/2022 15:57
Bromoform	< 5.00	ug/L		5/6/2022 15:57
Bromomethane	< 2.00	ug/L		5/6/2022 15:57

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Lab Project ID: 221928

Client: Bergmann Associates

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-106

Lab Sample ID: 221928-07

Date Sampled: 4/27/2022 18:00

Matrix: Groundwater

Date Received: 4/29/2022

Carbon disulfide	< 2.00	ug/L	5/6/2022 15:57
Carbon Tetrachloride	< 2.00	ug/L	5/6/2022 15:57
Chlorobenzene	9.49	ug/L	5/6/2022 15:57
Chloroethane	< 2.00	ug/L	5/6/2022 15:57
Chloroform	< 2.00	ug/L	5/6/2022 15:57
Chloromethane	< 2.00	ug/L	5/6/2022 15:57
cis-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 15:57
cis-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 15:57
Cyclohexane	< 10.0	ug/L	5/6/2022 15:57
Dibromochloromethane	< 2.00	ug/L	5/6/2022 15:57
Dichlorodifluoromethane	< 2.00	ug/L	5/6/2022 15:57
Ethylbenzene	< 2.00	ug/L	5/6/2022 15:57
Freon 113	< 2.00	ug/L	5/6/2022 15:57
Isopropylbenzene	< 2.00	ug/L	5/6/2022 15:57
m,p-Xylene	< 2.00	ug/L	5/6/2022 15:57
Methyl acetate	< 2.00	ug/L	5/6/2022 15:57
Methyl tert-butyl Ether	< 2.00	ug/L	5/6/2022 15:57
Methylcyclohexane	< 2.00	ug/L	5/6/2022 15:57
Methylene chloride	< 5.00	ug/L	5/6/2022 15:57
o-Xylene	< 2.00	ug/L	5/6/2022 15:57
Styrene	< 5.00	ug/L	5/6/2022 15:57
Tetrachloroethene	< 2.00	ug/L	5/6/2022 15:57
Toluene	< 2.00	ug/L	5/6/2022 15:57
trans-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 15:57
trans-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 15:57
Trichloroethene	< 2.00	ug/L	5/6/2022 15:57
Trichlorofluoromethane	< 2.00	ug/L	5/6/2022 15:57
Vinyl chloride	< 2.00	ug/L	5/6/2022 15:57

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-106

Lab Sample ID: 221928-07

Date Sampled: 4/27/2022 18:00

Matrix: Groundwater

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	110	81.1 - 136		5/6/2022 15:57
4-Bromofluorobenzene	92.4	75.8 - 132		5/6/2022 15:57
Pentafluorobenzene	109	82 - 132		5/6/2022 15:57
Toluene-D8	111	64.6 - 137		5/6/2022 15:57

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z08994.D

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-107

Lab Sample ID: 221928-08

Date Sampled: 4/27/2022 17:10

Matrix: Groundwater

Date Received 4/29/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.00842	mg/L		5/10/2022 10:45
Method Reference(s):	EPA 7470A			
Preparation Date:	5/10/2022			
Data File:	Hg220510A			

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	5.97	mg/L	M	5/2/2022 14:45
Antimony	0.0334	mg/L	J	5/2/2022 14:45
Arsenic	0.0258	mg/L		5/2/2022 14:45
Barium	0.309	mg/L		5/2/2022 14:45
Beryllium	< 0.00500	mg/L		5/2/2022 14:45
Cadmium	0.00256	mg/L	J	5/2/2022 14:45
Calcium	334	mg/L		5/2/2022 14:45
Chromium	0.0320	mg/L		5/3/2022 16:19
Cobalt	< 0.0500	mg/L		5/2/2022 14:45
Copper	0.172	mg/L		5/2/2022 14:45
Iron	16.8	mg/L		5/2/2022 14:45
Lead	0.550	mg/L		5/2/2022 14:45
Magnesium	51.7	mg/L		5/2/2022 14:45
Manganese	0.590	mg/L		5/2/2022 14:45
Nickel	0.159	mg/L		5/2/2022 14:45
Potassium	13.0	mg/L		5/2/2022 14:45
Selenium	< 0.0200	mg/L		5/2/2022 14:45
Silver	< 0.0100	mg/L		5/2/2022 14:45
Sodium	194	mg/L		5/2/2022 14:45
Thallium	< 0.0250	mg/L		5/2/2022 14:45
Vanadium	0.0226	mg/L	J	5/2/2022 14:45

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Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-107

Lab Sample ID: 221928-08

Date Sampled: 4/27/2022 17:10

Matrix: Groundwater

Date Received 4/29/2022

 Zinc **0.470** mg/L 5/2/2022 14:45

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 4/29/2022

Data File: 220502B

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 15:37
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 15:37
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 15:37
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 15:37
1,1-Dichloroethene	< 2.00	ug/L	M	5/6/2022 15:37
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 15:37
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 15:37
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 15:37
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 15:37
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 15:37
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 15:37
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 15:37
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 15:37
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 15:37
1,4-Dioxane	< 10.0	ug/L		5/6/2022 15:37
2-Butanone	< 10.0	ug/L		5/6/2022 15:37
2-Hexanone	< 5.00	ug/L		5/6/2022 15:37
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 15:37
Acetone	< 10.0	ug/L		5/6/2022 15:37
Benzene	< 1.00	ug/L	M	5/6/2022 15:37
Bromochloromethane	< 5.00	ug/L		5/6/2022 15:37
Bromodichloromethane	< 2.00	ug/L		5/6/2022 15:37
Bromoform	< 5.00	ug/L		5/6/2022 15:37
Bromomethane	< 2.00	ug/L		5/6/2022 15:37

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Lab Project ID: 221928

Client: Bergmann Associates

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-107

Lab Sample ID: 221928-08

Date Sampled: 4/27/2022 17:10

Matrix: Groundwater

Date Received: 4/29/2022

Carbon disulfide	< 2.00	ug/L		5/6/2022 15:37
Carbon Tetrachloride	< 2.00	ug/L		5/6/2022 15:37
Chlorobenzene	< 2.00	ug/L	M	5/6/2022 15:37
Chloroethane	< 2.00	ug/L		5/6/2022 15:37
Chloroform	< 2.00	ug/L		5/6/2022 15:37
Chloromethane	< 2.00	ug/L		5/6/2022 15:37
cis-1,2-Dichloroethene	< 2.00	ug/L		5/6/2022 15:37
cis-1,3-Dichloropropene	< 2.00	ug/L		5/6/2022 15:37
Cyclohexane	< 10.0	ug/L		5/6/2022 15:37
Dibromochloromethane	< 2.00	ug/L		5/6/2022 15:37
Dichlorodifluoromethane	< 2.00	ug/L		5/6/2022 15:37
Ethylbenzene	< 2.00	ug/L		5/6/2022 15:37
Freon 113	< 2.00	ug/L		5/6/2022 15:37
Isopropylbenzene	< 2.00	ug/L		5/6/2022 15:37
m,p-Xylene	< 2.00	ug/L		5/6/2022 15:37
Methyl acetate	< 2.00	ug/L		5/6/2022 15:37
Methyl tert-butyl Ether	< 2.00	ug/L		5/6/2022 15:37
Methylcyclohexane	< 2.00	ug/L		5/6/2022 15:37
Methylene chloride	< 5.00	ug/L		5/6/2022 15:37
o-Xylene	< 2.00	ug/L		5/6/2022 15:37
Styrene	< 5.00	ug/L		5/6/2022 15:37
Tetrachloroethene	< 2.00	ug/L		5/6/2022 15:37
Toluene	< 2.00	ug/L		5/6/2022 15:37
trans-1,2-Dichloroethene	< 2.00	ug/L		5/6/2022 15:37
trans-1,3-Dichloropropene	< 2.00	ug/L		5/6/2022 15:37
Trichloroethene	< 2.00	ug/L		5/6/2022 15:37
Trichlorofluoromethane	< 2.00	ug/L		5/6/2022 15:37
Vinyl chloride	< 2.00	ug/L		5/6/2022 15:37

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-107

Lab Sample ID: 221928-08

Date Sampled: 4/27/2022 17:10

Matrix: Groundwater

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	113	81.1 - 136		5/6/2022 15:37
4-Bromofluorobenzene	88.8	75.8 - 132		5/6/2022 15:37
Pentafluorobenzene	114	82 - 132		5/6/2022 15:37
Toluene-D8	112	64.6 - 137		5/6/2022 15:37

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z08993.D



Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-X

Lab Sample ID: 221928-09

Date Sampled: 4/27/2022

Matrix: Groundwater

Date Received 4/29/2022

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	0.0846	mg/L		5/10/2022 11:49
Method Reference(s):	EPA 7470A			
Preparation Date:	5/10/2022			
Data File:	Hg220510A			

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	14.4	mg/L		5/2/2022 15:08
Antimony	0.0524	mg/L	J	5/2/2022 15:08
Arsenic	0.0424	mg/L		5/2/2022 15:08
Barium	0.642	mg/L		5/2/2022 15:08
Beryllium	< 0.00500	mg/L		5/2/2022 15:08
Cadmium	0.00462	mg/L	J	5/2/2022 15:08
Calcium	280	mg/L		5/2/2022 15:08
Chromium	0.0440	mg/L		5/3/2022 16:42
Cobalt	< 0.0500	mg/L		5/2/2022 15:08
Copper	0.406	mg/L		5/2/2022 15:08
Iron	47.9	mg/L		5/2/2022 15:08
Lead	2.17	mg/L		5/2/2022 15:08
Magnesium	70.8	mg/L		5/2/2022 15:08
Manganese	1.44	mg/L		5/2/2022 15:08
Nickel	0.0293	mg/L	J	5/2/2022 15:08
Potassium	14.9	mg/L		5/2/2022 15:08
Selenium	0.0133	mg/L	J	5/2/2022 15:08
Silver	< 0.0100	mg/L		5/2/2022 15:08
Sodium	292	mg/L		5/2/2022 15:08
Thallium	< 0.0250	mg/L		5/2/2022 15:08
Vanadium	0.0496	mg/L		5/2/2022 15:08

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-X

Lab Sample ID: 221928-09

Date Sampled: 4/27/2022

Matrix: Groundwater

Date Received 4/29/2022

Zinc **1.17** mg/L 5/2/2022 15:08

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 4/29/2022

Data File: 220502B

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 15:18
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 15:18
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 15:18
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 15:18
1,1-Dichloroethene	< 2.00	ug/L		5/6/2022 15:18
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 15:18
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 15:18
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 15:18
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 15:18
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 15:18
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 15:18
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 15:18
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 15:18
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 15:18
1,4-Dioxane	< 10.0	ug/L		5/6/2022 15:18
2-Butanone	< 10.0	ug/L		5/6/2022 15:18
2-Hexanone	< 5.00	ug/L		5/6/2022 15:18
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 15:18
Acetone	< 10.0	ug/L		5/6/2022 15:18
Benzene	< 1.00	ug/L		5/6/2022 15:18
Bromochloromethane	< 5.00	ug/L		5/6/2022 15:18
Bromodichloromethane	< 2.00	ug/L		5/6/2022 15:18
Bromoform	< 5.00	ug/L		5/6/2022 15:18
Bromomethane	< 2.00	ug/L		5/6/2022 15:18

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-X

Lab Sample ID: 221928-09

Date Sampled: 4/27/2022

Matrix: Groundwater

Date Received: 4/29/2022

Carbon disulfide	< 2.00	ug/L	5/6/2022 15:18
Carbon Tetrachloride	< 2.00	ug/L	5/6/2022 15:18
Chlorobenzene	< 2.00	ug/L	5/6/2022 15:18
Chloroethane	< 2.00	ug/L	5/6/2022 15:18
Chloroform	< 2.00	ug/L	5/6/2022 15:18
Chloromethane	< 2.00	ug/L	5/6/2022 15:18
cis-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 15:18
cis-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 15:18
Cyclohexane	< 10.0	ug/L	5/6/2022 15:18
Dibromochloromethane	< 2.00	ug/L	5/6/2022 15:18
Dichlorodifluoromethane	< 2.00	ug/L	5/6/2022 15:18
Ethylbenzene	< 2.00	ug/L	5/6/2022 15:18
Freon 113	< 2.00	ug/L	5/6/2022 15:18
Isopropylbenzene	< 2.00	ug/L	5/6/2022 15:18
m,p-Xylene	< 2.00	ug/L	5/6/2022 15:18
Methyl acetate	< 2.00	ug/L	5/6/2022 15:18
Methyl tert-butyl Ether	< 2.00	ug/L	5/6/2022 15:18
Methylcyclohexane	< 2.00	ug/L	5/6/2022 15:18
Methylene chloride	< 5.00	ug/L	5/6/2022 15:18
o-Xylene	< 2.00	ug/L	5/6/2022 15:18
Styrene	< 5.00	ug/L	5/6/2022 15:18
Tetrachloroethene	< 2.00	ug/L	5/6/2022 15:18
Toluene	< 2.00	ug/L	5/6/2022 15:18
trans-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 15:18
trans-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 15:18
Trichloroethene	< 2.00	ug/L	5/6/2022 15:18
Trichlorofluoromethane	< 2.00	ug/L	5/6/2022 15:18
Vinyl chloride	< 2.00	ug/L	5/6/2022 15:18

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: MW-X

Lab Sample ID: 221928-09

Date Sampled: 4/27/2022

Matrix: Groundwater

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	106	81.1 - 136		5/6/2022 15:18
4-Bromofluorobenzene	97.4	75.8 - 132		5/6/2022 15:18
Pentafluorobenzene	111	82 - 132		5/6/2022 15:18
Toluene-D8	110	64.6 - 137		5/6/2022 15:18

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z08992.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: Trip Blank

Lab Sample ID: 221928-10

Date Sampled: 4/27/2022

Matrix: Water

Date Received: 4/29/2022

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/6/2022 14:59
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/6/2022 14:59
1,1,2-Trichloroethane	< 2.00	ug/L		5/6/2022 14:59
1,1-Dichloroethane	< 2.00	ug/L		5/6/2022 14:59
1,1-Dichloroethene	< 2.00	ug/L		5/6/2022 14:59
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/6/2022 14:59
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/6/2022 14:59
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/6/2022 14:59
1,2-Dibromoethane	< 2.00	ug/L		5/6/2022 14:59
1,2-Dichlorobenzene	< 2.00	ug/L		5/6/2022 14:59
1,2-Dichloroethane	< 2.00	ug/L		5/6/2022 14:59
1,2-Dichloropropane	< 2.00	ug/L		5/6/2022 14:59
1,3-Dichlorobenzene	< 2.00	ug/L		5/6/2022 14:59
1,4-Dichlorobenzene	< 2.00	ug/L		5/6/2022 14:59
1,4-Dioxane	< 10.0	ug/L		5/6/2022 14:59
2-Butanone	< 10.0	ug/L		5/6/2022 14:59
2-Hexanone	< 5.00	ug/L		5/6/2022 14:59
4-Methyl-2-pentanone	< 5.00	ug/L		5/6/2022 14:59
Acetone	< 10.0	ug/L		5/6/2022 14:59
Benzene	< 1.00	ug/L		5/6/2022 14:59
Bromochloromethane	< 5.00	ug/L		5/6/2022 14:59
Bromodichloromethane	< 2.00	ug/L		5/6/2022 14:59
Bromoform	< 5.00	ug/L		5/6/2022 14:59
Bromomethane	< 2.00	ug/L		5/6/2022 14:59
Carbon disulfide	< 2.00	ug/L		5/6/2022 14:59
Carbon Tetrachloride	< 2.00	ug/L		5/6/2022 14:59
Chlorobenzene	< 2.00	ug/L		5/6/2022 14:59
Chloroethane	< 2.00	ug/L		5/6/2022 14:59

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Lab Project ID: 221928

Client: Bergmann Associates

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: Trip Blank

Lab Sample ID: 221928-10

Date Sampled: 4/27/2022

Matrix: Water

Date Received: 4/29/2022

Chloroform	< 2.00	ug/L	5/6/2022 14:59
Chloromethane	< 2.00	ug/L	5/6/2022 14:59
cis-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 14:59
cis-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 14:59
Cyclohexane	< 10.0	ug/L	5/6/2022 14:59
Dibromochloromethane	< 2.00	ug/L	5/6/2022 14:59
Dichlorodifluoromethane	< 2.00	ug/L	5/6/2022 14:59
Ethylbenzene	< 2.00	ug/L	5/6/2022 14:59
Freon 113	< 2.00	ug/L	5/6/2022 14:59
Isopropylbenzene	< 2.00	ug/L	5/6/2022 14:59
m,p-Xylene	< 2.00	ug/L	5/6/2022 14:59
Methyl acetate	< 2.00	ug/L	5/6/2022 14:59
Methyl tert-butyl Ether	< 2.00	ug/L	5/6/2022 14:59
Methylcyclohexane	< 2.00	ug/L	5/6/2022 14:59
Methylene chloride	< 5.00	ug/L	5/6/2022 14:59
o-Xylene	< 2.00	ug/L	5/6/2022 14:59
Styrene	< 5.00	ug/L	5/6/2022 14:59
Tetrachloroethene	< 2.00	ug/L	5/6/2022 14:59
Toluene	< 2.00	ug/L	5/6/2022 14:59
trans-1,2-Dichloroethene	< 2.00	ug/L	5/6/2022 14:59
trans-1,3-Dichloropropene	< 2.00	ug/L	5/6/2022 14:59
Trichloroethene	< 2.00	ug/L	5/6/2022 14:59
Trichlorofluoromethane	< 2.00	ug/L	5/6/2022 14:59
Vinyl chloride	< 2.00	ug/L	5/6/2022 14:59

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Lab Project ID: 221928

Client: **Bergmann Associates**

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Sample Identifier: Trip Blank

Lab Sample ID: 221928-10

Date Sampled: 4/27/2022

Matrix: Water

Date Received 4/29/2022

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>
1,2-Dichloroethane-d4	110	81.1 - 136		5/6/2022 14:59
4-Bromofluorobenzene	99.1	75.8 - 132		5/6/2022 14:59
Pentafluorobenzene	111	82 - 132		5/6/2022 14:59
Toluene-D8	112	64.6 - 137		5/6/2022 14:59

Method Reference(s): EPA 8260C

EPA 5030C

Data File: z08991.D

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Report Prepared Monday, May 16, 2022



Method Blank Report

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
SDG #: 1928-01
Matrix: Groundwater

TAL Metals (ICP)

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Aluminum	<0.100	mg/L		5/2/2022 13:29
Antimony	<0.0600	mg/L		5/2/2022 13:29
Arsenic	<0.0100	mg/L		5/2/2022 13:29
Barium	<0.100	mg/L		5/2/2022 13:29
Beryllium	<0.00500	mg/L		5/2/2022 13:29
Cadmium	<0.00500	mg/L		5/2/2022 13:29
Calcium	<2.50	mg/L		5/2/2022 13:29
Chromium	<0.0100	mg/L		5/2/2022 13:29
Cobalt	<0.0500	mg/L		5/2/2022 13:29
Copper	<0.0200	mg/L		5/2/2022 13:29
Iron	<0.100	mg/L		5/2/2022 13:29
Lead	<0.0100	mg/L		5/2/2022 13:29
Magnesium	<2.50	mg/L		5/2/2022 13:29
Manganese	<0.0150	mg/L		5/2/2022 13:29
Nickel	<0.0400	mg/L		5/2/2022 13:29
Potassium	<2.50	mg/L		5/2/2022 13:29
Selenium	<0.0200	mg/L		5/2/2022 13:29
Silver	<0.0100	mg/L		5/2/2022 13:29
Sodium	<2.50	mg/L		5/2/2022 13:29
Thallium	<0.0250	mg/L		5/2/2022 13:29
Vanadium	<0.0250	mg/L		5/2/2022 13:29
Zinc	<0.0600	mg/L		5/2/2022 13:29

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/29/2022
Data File: 220502B
QC Batch ID: QC220429Water
QC Number: Blk 1

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QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
SDG #: 1928-01
Matrix: Groundwater

TAL Metals (ICP)

	<u>LCS</u>	<u>LCSD</u>	<u>Spike</u>	<u>LCS</u>	<u>LCSD</u>	<u>LCS %</u>	<u>LCSD %</u>	<u>% Rec</u>	<u>LCS</u>	<u>LCSD</u>	<u>Relative %</u>	<u>RPD</u>	<u>RPD</u>	<u>Date</u>
<u>Analyte</u>	<u>Added</u>	<u>Added</u>	<u>Units</u>	<u>Result</u>	<u>Result</u>	<u>Recovery</u>	<u>Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Outliers</u>	<u>Difference</u>	<u>Limit</u>	<u>Outliers</u>	<u>Analyzed</u>
Aluminum	2.50	2.50	mg/L	2.40	2.48	95.9	99.0	80 - 120			3.19	20		5/2/2022
Antimony	2.50	2.50	mg/L	2.63	2.70	105	108	80 - 120			2.41	20		5/2/2022
Arsenic	2.50	2.50	mg/L	2.41	2.48	96.4	99.3	80 - 120			3.00	20		5/2/2022
Barium	2.50	2.50	mg/L	2.66	2.73	106	109	80 - 120			2.49	20		5/2/2022
Beryllium	0.500	0.500	mg/L	0.482	0.491	96.5	98.3	80 - 120			1.84	20		5/2/2022
Cadmium	1.00	1.00	mg/L	1.05	1.07	105	107	80 - 120			2.39	20		5/2/2022
Calcium	4.00	4.00	mg/L	4.03	4.08	101	102	80 - 120			1.22	20		5/2/2022
Chromium	2.50	2.50	mg/L	2.51	2.57	101	103	80 - 120			2.29	20		5/2/2022
Cobalt	1.00	1.00	mg/L	1.02	1.05	102	105	80 - 120			2.30	20		5/2/2022
Copper	2.50	2.50	mg/L	2.42	2.47	97.0	98.7	80 - 120			1.73	20		5/2/2022
Iron	2.50	2.50	mg/L	2.44	2.52	97.7	101	80 - 120			3.22	20		5/2/2022
Lead	2.50	2.50	mg/L	2.42	2.48	96.6	99.1	80 - 120			2.51	20		5/2/2022
Magnesium	8.00	8.00	mg/L	8.48	8.69	106	109	80 - 120			2.44	20		5/2/2022
Manganese	1.00	1.00	mg/L	1.02	1.04	102	104	80 - 120			1.85	20		5/2/2022
Nickel	5.00	5.00	mg/L	5.02	5.13	100	103	80 - 120			2.29	20		5/2/2022
Potassium	42.5	42.5	mg/L	41.2	41.5	96.9	97.7	80 - 120			0.811	20		5/2/2022

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QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
SDG #: 1928-01
Matrix: Groundwater

TAL Metals (ICP)

<u>Analyte</u>	<u>LCS</u> <u>Added</u>	<u>LCSD</u> <u>Added</u>	<u>Spike</u> <u>Units</u>	<u>LCS</u> <u>Result</u>	<u>LCSD</u> <u>Result</u>	<u>LCS %</u> <u>Recovery</u>	<u>LCSD %</u> <u>Recovery</u>	<u>% Rec</u> <u>Limits</u>	<u>LCS</u> <u>Outliers</u>	<u>LCSD</u> <u>Outliers</u>	<u>Relative %</u> <u>Difference</u>	<u>RPD</u> <u>Limit</u>	<u>RPD</u> <u>Outliers</u>	<u>Date</u> <u>Analyzed</u>
Selenium	2.50	2.50	mg/L	2.47	2.54	98.6	102	80 - 120			3.12	20		5/2/2022
Silver	0.250	0.250	mg/L	0.244	0.251	97.8	100	80 - 120			2.46	20		5/2/2022
Sodium	12.0	12.0	mg/L	12.0	12.1	99.8	101	80 - 120			0.765	20		5/2/2022
Thallium	2.50	2.50	mg/L	2.55	2.61	102	105	80 - 120			2.44	20		5/2/2022
Vanadium	1.00	1.00	mg/L	1.04	1.06	104	106	80 - 120			1.75	20		5/2/2022
Zinc	2.50	2.50	mg/L	2.56	2.62	103	105	80 - 120			2.03	20		5/2/2022

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/29/2022
Data File: 220502B
QC Number: 1
QC Batch ID: QC220429Water

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QC Report for Sample Spike and Sample Duplicate

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

SDG #: 1928-01
Lab Project ID: 221928

Lab Sample ID: 221928-08
Sample Identifier: MW-107
Matrix: Groundwater

Date Sampled: 4/27/2022
Date Received: 4/29/2022

TAL Metals (ICP)

<u>Analyte</u>	<u>Sample Results</u>	<u>Result Units</u>	<u>Spike Added</u>	<u>Spike Result</u>	<u>Spike % Recovery</u>	<u>% Rec Limits</u>	<u>Spike Outliers</u>	<u>Duplicate Result</u>	<u>Relative % Difference</u>	<u>RPD Limit</u>	<u>RPD Outliers</u>	<u>Date Analyzed</u>
Aluminum	5.97	mg/L	2.50	11.0	201	75 - 125	*	6.06	1.57	20		5/2/2022
Antimony	0.0334	mg/L	2.50	2.69	106	75 - 125		0.0301	NC	20		5/2/2022
Arsenic	0.0258	mg/L	2.50	2.60	103	75 - 125		0.0255	1.25	20		5/2/2022
Barium	0.309	mg/L	2.50	2.84	101	75 - 125		0.309	0.000248	20		5/2/2022
Beryllium	< 0.00500	mg/L	0.500	0.489	97.7	75 - 125		<0.00500	NC	20		5/2/2022
Cadmium	0.00256	mg/L	1.00	0.992	99.0	75 - 125		<0.00500	NC	20		5/2/2022
Calcium	334	mg/L	4.00	339	NC	75 - 125		330	1.24	20		5/2/2022
Chromium	0.0320	mg/L	2.50	2.37	93.4	75 - 125		0.0367	13.7	20		5/3/2022
Cobalt	< 0.0500	mg/L	1.00	0.986	98.6	75 - 125		<0.0500	NC	20		5/2/2022
Copper	0.172	mg/L	2.50	2.67	100	75 - 125		0.166	3.42	20		5/2/2022
Iron	16.8	mg/L	2.50	19.1	94.3	75 - 125		16.6	0.765	20		5/2/2022
Lead	0.550	mg/L	2.50	2.99	97.6	75 - 125		0.549	0.169	20		5/2/2022
Magnesium	51.7	mg/L	8.00	60.4	108	75 - 125		52.0	0.632	20		5/2/2022

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

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Report Prepared Wednesday, May 4, 2022

QC Report for Sample Spike and Sample Duplicate

Client: Bergmann Associates

Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

SDG #: 1928-01
Lab Project ID: 221928

Lab Sample ID: 221928-08
Sample Identifier: MW-107
Matrix: Groundwater

Date Sampled: 4/27/2022
Date Received: 4/29/2022

TAL Metals (ICP)

<u>Analyte</u>	<u>Sample Results</u>	<u>Result Units</u>	<u>Spike Added</u>	<u>Spike Result</u>	<u>Spike % Recovery</u>	<u>% Rec Limits</u>	<u>Spike Outliers</u>	<u>Duplicate Result</u>	<u>Relative % Difference</u>	<u>RPD Limit</u>	<u>RPD Outliers</u>	<u>Date Analyzed</u>
Manganese	0.590	mg/L	1.00	1.59	100	75 - 125		0.596	1.05	20		5/2/2022
Nickel	0.159	mg/L	5.00	4.81	93.1	75 - 125		0.162	1.72	20		5/2/2022
Potassium	13.0	mg/L	42.5	57.2	104	75 - 125		13.2	1.34	20		5/2/2022
Selenium	< 0.0200	mg/L	2.50	2.54	102	75 - 125		0.0120	NC	20		5/2/2022
Silver	< 0.0100	mg/L	0.250	0.248	99.3	75 - 125		<0.0100	NC	20		5/2/2022
Sodium	194	mg/L	12.0	206	NC	75 - 125		192	1.12	20		5/2/2022
Thallium	< 0.0250	mg/L	2.50	2.45	97.9	75 - 125		<0.0250	NC	20		5/2/2022
Vanadium	0.0226	mg/L	1.00	1.03	101	75 - 125		0.0227	NC	20		5/2/2022
Zinc	0.470	mg/L	2.50	2.93	98.4	75 - 125		0.474	0.730	20		5/2/2022

Method Reference(s): EPA 6010C
 EPA 3005A
Preparation Date: 4/29/2022
 220502B
QC Batch ID: QC220429Water

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

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Report Prepared Wednesday, May 4, 2022



Method Blank Report

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
Matrix: Groundwater

Mercury

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Mercury	<0.000200	mg/L		5/10/2022 10:22

Method Reference(s): EPA 7470A
Preparation Date: 5/10/2022
Data File: Hg220510A
QC Batch ID: QC220510HgWater
QC Number: Blk 1

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QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
Matrix: Groundwater

Mercury

<u>Analyte</u>	<u>LCS Added</u>	<u>LCSD Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCSD Result</u>	<u>LCS % Recovery</u>	<u>LCSD % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>LCSD Outliers</u>	<u>Relative % Difference</u>	<u>RPD Limit</u>	<u>RPD Outliers</u>	<u>Date Analyzed</u>
Mercury	0.00200	0.00200	mg/L	0.00209	0.00211	105	106	80 - 120			0.887	20		5/10/2022

Method Reference(s): EPA 7470A
Preparation Date: 5/10/2022
Data File: Hg220510A
QC Number: 1
QC Batch ID: QC220510HgWater

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QC Report for Sample Spike and Sample Duplicate

Client: Bergmann Associates **Lab Project ID:** 221928
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

Lab Sample ID: 221928-05 **Date Sampled:** 4/27/2022
Sample Identifier: MWR-102 **Date Received:** 4/29/2022
Matrix: Groundwater

Mercury

<u>Analyte</u>	<u>Sample Results</u>	<u>Result Units</u>	<u>Spike Added</u>	<u>Spike Result</u>	<u>Spike % Recovery</u>	<u>% Rec Limits</u>	<u>Spike Outliers</u>	<u>Duplicate Result</u>	<u>Relative % Difference</u>	<u>RPD Limit</u>	<u>RPD Outliers</u>	<u>Date Analyzed</u>
Mercury	< 0.000200	mg/L	0.00200	0.00185	92.4	75 - 125		<0.000200	NC	20		5/10/2022
Method Reference(s):	EPA 7470A											
Preparation Date:	5/10/2022											
	Hg220510A											
QC Batch ID:	QC220510HgWater											

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, May 10, 2022



Method Blank Report

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
SDG #: 1928-01
Matrix: Groundwater

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
1,1,1-Trichloroethane	<2.00	ug/L		5/6/2022	11:54
1,1,2,2-Tetrachloroethane	<2.00	ug/L		5/6/2022	11:54
1,1,2-Trichloroethane	<2.00	ug/L		5/6/2022	11:54
1,1-Dichloroethane	<2.00	ug/L		5/6/2022	11:54
1,1-Dichloroethene	<2.00	ug/L		5/6/2022	11:54
1,2,3-Trichlorobenzene	<5.00	ug/L		5/6/2022	11:54
1,2,4-Trichlorobenzene	<5.00	ug/L		5/6/2022	11:54
1,2-Dibromo-3-Chloropropane	<10.0	ug/L		5/6/2022	11:54
1,2-Dibromoethane	<2.00	ug/L		5/6/2022	11:54
1,2-Dichlorobenzene	<2.00	ug/L		5/6/2022	11:54
1,2-Dichloroethane	<2.00	ug/L		5/6/2022	11:54
1,2-Dichloropropane	<2.00	ug/L		5/6/2022	11:54
1,3-Dichlorobenzene	<2.00	ug/L		5/6/2022	11:54
1,4-Dichlorobenzene	<2.00	ug/L		5/6/2022	11:54
1,4-Dioxane	<10.0	ug/L		5/6/2022	11:54
2-Butanone	<10.0	ug/L		5/6/2022	11:54
2-Hexanone	<5.00	ug/L		5/6/2022	11:54
4-Methyl-2-pentanone	<5.00	ug/L		5/6/2022	11:54
Acetone	<10.0	ug/L		5/6/2022	11:54
Benzene	<1.00	ug/L		5/6/2022	11:54
Bromochloromethane	<5.00	ug/L		5/6/2022	11:54
Bromodichloromethane	<2.00	ug/L		5/6/2022	11:54
Bromoform	<5.00	ug/L		5/6/2022	11:54
Bromomethane	<2.00	ug/L		5/6/2022	11:54
Carbon disulfide	<2.00	ug/L		5/6/2022	11:54
Carbon Tetrachloride	<2.00	ug/L		5/6/2022	11:54
Chlorobenzene	<2.00	ug/L		5/6/2022	11:54

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Method Blank Report

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
SDG #: 1928-01
Matrix: Groundwater

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>
Chloroethane	<2.00	ug/L		5/6/2022 11:54
Chloroform	<2.00	ug/L		5/6/2022 11:54
Chloromethane	<2.00	ug/L		5/6/2022 11:54
cis-1,2-Dichloroethene	<2.00	ug/L		5/6/2022 11:54
cis-1,3-Dichloropropene	<2.00	ug/L		5/6/2022 11:54
Cyclohexane	<10.0	ug/L		5/6/2022 11:54
Dibromochloromethane	<2.00	ug/L		5/6/2022 11:54
Dichlorodifluoromethane	<2.00	ug/L		5/6/2022 11:54
Ethylbenzene	<2.00	ug/L		5/6/2022 11:54
Freon 113	<2.00	ug/L		5/6/2022 11:54
Isopropylbenzene	<2.00	ug/L		5/6/2022 11:54
m,p-Xylene	<2.00	ug/L		5/6/2022 11:54
Methyl acetate	<2.00	ug/L		5/6/2022 11:54
Methyl tert-butyl Ether	<2.00	ug/L		5/6/2022 11:54
Methylcyclohexane	<2.00	ug/L		5/6/2022 11:54
Methylene chloride	<5.00	ug/L		5/6/2022 11:54
o-Xylene	<2.00	ug/L		5/6/2022 11:54
Styrene	<5.00	ug/L		5/6/2022 11:54
Tetrachloroethene	<2.00	ug/L		5/6/2022 11:54
Toluene	<2.00	ug/L		5/6/2022 11:54
trans-1,2-Dichloroethene	<2.00	ug/L		5/6/2022 11:54
trans-1,3-Dichloropropene	<2.00	ug/L		5/6/2022 11:54
Trichloroethene	<2.00	ug/L		5/6/2022 11:54
Trichlorofluoromethane	<2.00	ug/L		5/6/2022 11:54
Vinyl chloride	<2.00	ug/L		5/6/2022 11:54

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Method Blank Report

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
SDG #: 1928-01
Matrix: Groundwater

Volatile Organics

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Qualifier</u>	<u>Date Analyzed</u>	
<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	109	81.1 - 136		5/6/2022	11:54
4-Bromofluorobenzene	98.1	75.8 - 132		5/6/2022	11:54
Pentafluorobenzene	109	82 - 132		5/6/2022	11:54
Toluene-D8	108	64.6 - 137		5/6/2022	11:54

Method Reference(s): EPA 8260C
EPA 5030C
Data File: z08982a.D
QC Batch ID: voaw220506
QC Number: Blk 1

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QC Report for Laboratory Control Sample

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
SDG #: 1928-01
Matrix: Groundwater

Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
1,1,1-Trichloroethane	20.0	ug/L	21.2	106	80 - 132		5/6/2022
1,1,2,2-Tetrachloroethane	20.0	ug/L	19.6	98.2	23.6 - 185		5/6/2022
1,1,2-Trichloroethane	20.0	ug/L	19.8	98.8	62.9 - 138		5/6/2022
1,1-Dichloroethane	20.0	ug/L	21.2	106	79.7 - 124		5/6/2022
1,1-Dichloroethene	20.0	ug/L	21.4	107	65.5 - 116		5/6/2022
1,2-Dichlorobenzene	20.0	ug/L	20.3	101	59 - 126		5/6/2022
1,2-Dichloroethane	20.0	ug/L	20.7	104	78.3 - 122		5/6/2022
1,2-Dichloropropane	20.0	ug/L	20.7	104	75.9 - 115		5/6/2022
1,3-Dichlorobenzene	20.0	ug/L	19.5	97.7	66.4 - 109		5/6/2022
1,4-Dichlorobenzene	20.0	ug/L	19.6	98.2	66.4 - 110		5/6/2022
Benzene	20.0	ug/L	21.7	109	81.6 - 114		5/6/2022
Bromodichloromethane	20.0	ug/L	20.3	102	77.8 - 116		5/6/2022
Bromoform	20.0	ug/L	18.4	92.1	47.9 - 153		5/6/2022
Bromomethane	20.0	ug/L	20.4	102	50.9 - 166		5/6/2022
Carbon Tetrachloride	20.0	ug/L	21.0	105	76.4 - 129		5/6/2022
Chlorobenzene	20.0	ug/L	21.1	105	77.2 - 106		5/6/2022

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QC Report for Laboratory Control Sample

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
SDG #: 1928-01
Matrix: Groundwater

Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
Chloroethane	20.0	ug/L	20.4	102	49.9 - 159		5/6/2022
Chloroform	20.0	ug/L	21.0	105	84.5 - 122		5/6/2022
Chloromethane	20.0	ug/L	21.8	109	42.2 - 174		5/6/2022
cis-1,3-Dichloropropene	20.0	ug/L	20.1	100	68.8 - 122		5/6/2022
Dibromochloromethane	20.0	ug/L	19.3	96.4	65.7 - 133		5/6/2022
Ethylbenzene	20.0	ug/L	19.9	99.5	72.1 - 110		5/6/2022
Methylene chloride	20.0	ug/L	22.3	112	52.5 - 139		5/6/2022
Tetrachloroethene	20.0	ug/L	21.0	105	64.4 - 130		5/6/2022
Toluene	20.0	ug/L	20.5	103	62.9 - 125		5/6/2022
trans-1,2-Dichloroethene	20.0	ug/L	21.6	108	73.9 - 120		5/6/2022
trans-1,3-Dichloropropene	20.0	ug/L	19.7	98.6	57.1 - 131		5/6/2022
Trichloroethene	20.0	ug/L	22.0	110	73.4 - 122		5/6/2022
Trichlorofluoromethane	20.0	ug/L	22.1	111	62.2 - 147		5/6/2022
Vinyl chloride	20.0	ug/L	22.1	111	50.9 - 164		5/6/2022

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QC Report for Laboratory Control Sample

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Project ID: 221928
SDG #: 1928-01
Matrix: Groundwater

Volatile Organics

<u>Analyte</u>	<u>Spike Added</u>	<u>Spike Units</u>	<u>LCS Result</u>	<u>LCS % Recovery</u>	<u>% Rec Limits</u>	<u>LCS Outliers</u>	<u>Date Analyzed</u>
Method Reference(s):	EPA 8260C						
	EPA 5030C						
Data File:	z08981.D						
QC Number:	LCS 1						
QC Batch ID:	voaw220506						

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Report Prepared Saturday, May 7, 2022



QC Report for Matrix Spike and Matrix Spike Duplicate

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Sample ID: 221928-08
Sample Identifier: MW-107
Matrix: Groundwater

SDG #: 1928-01
Lab Project ID: 221928

Date Sampled: 4/27/2022
Date Received: 4/29/2022
Date Analyzed: 5/6/2022

Volatile Organics

<u>Analyte</u>	<u>Sample Result</u>	<u>MS</u>	<u>MS</u>	<u>MS %</u>	<u>MSD</u>	<u>MSD</u>	<u>MSD %</u>	<u>% Rec.</u>	<u>MS</u>	<u>MSD</u>	<u>Relative</u>	<u>RPD</u>	<u>RPD</u>	
	<u>Result</u>	<u>Units</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Limits</u>	<u>Outlier</u>	<u>Outlier</u>	<u>% Diff.</u>	<u>Limit</u>	<u>Outlier</u>
1,1,1-Trichloroethane	< 2.00	ug/L	50.0	59.5	119	50.0	54.9	110	80 - 132			8.07	28	
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	50.0	48.5	97.1	50.0	41.6	83.3	23.6 - 185			15.3	54	
1,1,2-Trichloroethane	< 2.00	ug/L	50.0	51.2	102	50.0	42.5	84.9	62.9 - 138			18.7	34.7	
1,1-Dichloroethane	< 2.00	ug/L	50.0	57.7	115	50.0	52.7	105	79.7 - 124			9.02	25.1	
1,1-Dichloroethene	< 2.00	ug/L	50.0	59.2	118	50.0	55.5	111	65.5 - 116	*		6.41	35.4	
1,2-Dichlorobenzene	< 2.00	ug/L	50.0	50.2	100	50.0	47.7	95.5	59 - 126			4.96	27.3	
1,2-Dichloroethane	< 2.00	ug/L	50.0	52.9	106	50.0	45.2	90.3	78.3 - 122			15.8	20.2	
1,2-Dichloropropane	< 2.00	ug/L	50.0	54.5	109	50.0	48.9	97.8	75.9 - 115			10.8	21.2	
1,3-Dichlorobenzene	< 2.00	ug/L	50.0	50.3	101	50.0	48.7	97.5	66.4 - 109			3.12	26	
1,4-Dichlorobenzene	< 2.00	ug/L	50.0	49.4	98.8	50.0	47.6	95.2	66.4 - 110			3.68	25.3	
Benzene	< 1.00	ug/L	50.0	58.2	116	50.0	53.7	107	81.6 - 114	*		7.96	15	
Bromodichloromethane	< 2.00	ug/L	50.0	54.7	109	50.0	48.4	96.8	77.8 - 116			12.1	22.5	
Bromoform	< 5.00	ug/L	50.0	47.4	94.8	50.0	40.1	80.3	47.9 - 153			16.6	35	
Bromomethane	< 2.00	ug/L	50.0	50.5	101	50.0	47.9	95.8	50.9 - 166			5.38	51.2	

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.
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Report Prepared Saturday, May 7, 2022



QC Report for Matrix Spike and Matrix Spike Duplicate

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave

SDG #: 1928-01
Lab Project ID: 221928

Lab Sample ID: 221928-08
Sample Identifier: MW-107
Matrix: Groundwater

Date Sampled: 4/27/2022
Date Received: 4/29/2022
Date Analyzed: 5/6/2022

Volatile Organics

<u>Analyte</u>	<u>Sample Result</u>	<u>MS</u>	<u>MS</u>	<u>MS %</u>	<u>MSD</u>	<u>MSD</u>	<u>MSD %</u>	<u>% Rec.</u>	<u>MS</u>	<u>MSD</u>	<u>Relative</u>	<u>RPD</u>	<u>RPD</u>	
	<u>Result</u>	<u>Units</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Limits</u>	<u>Outlier</u>	<u>Outlier</u>	<u>% Diff.</u>	<u>Limit</u>	<u>Outlier</u>
Carbon Tetrachloride	< 2.00	ug/L	50.0	59.2	118	50.0	54.9	110	76.4 - 129			7.48	26.6	
Chlorobenzene	< 2.00	ug/L	50.0	54.3	109	50.0	50.8	102	77.2 - 106	*		6.68	16.4	
Chloroethane	< 2.00	ug/L	50.0	58.5	117	50.0	57.1	114	49.9 - 159			2.45	55.1	
Chloroform	< 2.00	ug/L	50.0	55.5	111	50.0	50.7	101	84.5 - 122			9.16	18.3	
Chloromethane	< 2.00	ug/L	50.0	53.8	108	50.0	51.9	104	42.2 - 174			3.52	41.4	
cis-1,3-Dichloropropene	< 2.00	ug/L	50.0	52.5	105	50.0	46.2	92.4	68.8 - 122			12.7	34.4	
Dibromochloromethane	< 2.00	ug/L	50.0	51.3	103	50.0	43.4	86.7	65.7 - 133			16.8	30	
Ethylbenzene	< 2.00	ug/L	50.0	52.5	105	50.0	50.8	102	72.1 - 110			3.26	20	
Methylene chloride	< 5.00	ug/L	50.0	52.9	106	50.0	47.3	94.7	52.5 - 139			11.1	25.8	
Tetrachloroethene	< 2.00	ug/L	50.0	54.7	109	50.0	51.0	102	64.4 - 130			6.99	25.9	
Toluene	< 2.00	ug/L	50.0	55.7	111	50.0	51.6	103	62.9 - 125			7.51	32	
trans-1,2-Dichloroethene	< 2.00	ug/L	50.0	58.5	117	50.0	54.5	109	73.9 - 120			7.08	22.8	
trans-1,3-Dichloropropene	< 2.00	ug/L	50.0	50.9	102	50.0	44.1	88.1	57.1 - 131			14.3	36.9	
Trichloroethene	< 2.00	ug/L	50.0	59.5	119	50.0	55.1	110	73.4 - 122			7.76	23.9	

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.
 This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Saturday, May 7, 2022



QC Report for Matrix Spike and Matrix Spike Duplicate

Client: Bergmann Associates
Project Reference: 2022 Annual Sample Event - VOA - 214 Lake Ave
Lab Sample ID: 221928-08
Sample Identifier: MW-107
Matrix: Groundwater

SDG #: 1928-01
Lab Project ID: 221928
Date Sampled: 4/27/2022
Date Received: 4/29/2022
Date Analyzed: 5/6/2022

Volatile Organics

<u>Analyte</u>	<u>Sample Result</u>	<u>MS</u>	<u>MS</u>	<u>MS %</u>	<u>MSD</u>	<u>MSD</u>	<u>MSD %</u>	<u>% Rec.</u>	<u>MS</u>	<u>MSD</u>	<u>Relative</u>	<u>RPD</u>	<u>RPD</u>	
	<u>Result</u>	<u>Units</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Added</u>	<u>Result</u>	<u>Recovery</u>	<u>Limits</u>	<u>Outlier</u>	<u>Outlier</u>	<u>% Diff.</u>	<u>Limit</u>	<u>Outlier</u>
Trichlorofluoromethane	< 2.00	ug/L	50.0	61.3	123	50.0	57.2	114	62.2 - 147			6.89	46.8	
Vinyl chloride	< 2.00	ug/L	50.0	60.0	120	50.0	58.5	117	50.9 - 164			2.54	49.5	

Method Reference(s): EPA 8260C
EPA 5030C
Data File(s): z09001.D
z09002.D
z08993.D
1
QC Batch ID: voaw220506

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags. This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.



Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.

"E" = Result has been estimated, calibration limit exceeded.

"H" = Denotes a parameter analyzed outside of holding time.

"Z" = See case narrative.

"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

10623
CP 4/29/22



CHAIN OF CUSTODY

2022 Annual Sample
PROJECT REFERENCE Event
VOA - 214 Lake Ave

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT: Bergmann	CLIENT: Same	221928		
ADDRESS: 280 E. Broad Street	ADDRESS:	Quotation #:		
CITY: Rochester STATE: NY ZIP:	CITY: STATE: ZIP:	Email:		
PHONE: 845-401-4688	PHONE:	ATTN: Skylar Francis		

Matrix Codes:
 AQ - Aqueous Liquid WA - Water
 NQ - Non-Aqueous Liquid WG - Groundwater
 DW - Drinking Water SO - Soil
 WW - Wastewater SL - Sludge
 SD - Solid WP - Wipe
 PT - Paint CK - Caulk
 OL - Oil AR - Air

REQUESTED ANALYSIS											
DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX	COUNTAINERS	8260 TCL	8270 TCL	TAL Metals	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/27/22	18:30		X	MW-101	WG	4	X	X	X		01
4/27/22	18:22			MWR-101		4	X	X	X		02
4/27/22	13:10			MW-103		4	X	X	X		03
4/27/22	10:00			MW-102		4	X	X	X		04
4/27/22	12:50			MWR-102		4	X	X	X		05
4/27/22	17:50			MW-105		4	X	X	X		06
4/27/22	18:00			MW-106		4	X	X	X		07
4/27/22	17:10			MW-107		4	X	X	X		08
4/27/22	17:10			MW-107 MS		4	X	X	X		08
4/27/22	17:10		✓	MW-107 MSD	✓	4	X	X	X	2 ^o cial 4/28/22 1047hr	

Turnaround Time	Report Supplements		
Availability contingent upon lab approval; additional fees may apply.			
Standard 5 day <input type="checkbox"/>	None Required <input type="checkbox"/>	None Required <input type="checkbox"/>	None Required <input type="checkbox"/>
10 day <input checked="" type="checkbox"/>	Batch QC <input type="checkbox"/>	Basic EDD <input type="checkbox"/>	
Rush 3 day <input type="checkbox"/>	Category A <input checked="" type="checkbox"/>	NYSDEC EDD <input checked="" type="checkbox"/>	
Rush 2 day <input type="checkbox"/>	Category B <input type="checkbox"/>		
Rush 1 day <input type="checkbox"/>			
Date Needed _____ please indicate date needed:	Other <input type="checkbox"/> please indicate package needed:	Other EDD <input type="checkbox"/> please indicate EDD needed:	

Skylar Francis + Mary Legawiec 4/27/22

Sampled By: *[Signature]* Date/Time: 4/28/22 16:41

Relinquished By: *[Signature]* Date/Time: 4/28/22 16:41

Received By: *[Signature]* Date/Time: 4/29/22 09:22

Received @ Lab By: _____ Date/Time: _____

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

2.F.3



CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT: Bergmann	CLIENT:			
ADDRESS: 290 E. Broad Street	ADDRESS:			
CITY: Rochester STATE: NY ZIP	CITY: STATE: ZIP:			Quotation #:
PHONE: 845-401-4688	PHONE:			Email:
ATTN: Skular Francis	ATTN:			

PROJECT REFERENCE
2022 Annual Sample Event - VOA-214 Lake Ave

Matrix Codes:
 AQ - Aqueous Liquid **WA** Water
 NQ - Non-Aqueous Liquid **WG** Groundwater
 DW - Drinking Water SO - Soil
 WW - Wastewater SL - Sludge
 SD - Solid WP - Wipe
 PT - Paint CK - Caulk
 OL - Oil AR - Air

REQUESTED ANALYSIS											
DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX	CONTAINER OF	8260 TCL	8270	TAL Metal	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/27/22	—		X	MW-X	WG	4	X	X	X		09
4/27/22	—		X	Trip Blank	W	1	X				10

Turnaround Time	Report Supplements	
Availability contingent upon lab approval; additional fees may apply.		
Standard 5 day <input type="checkbox"/>	None Required <input type="checkbox"/>	None Required <input type="checkbox"/>
10 day <input checked="" type="checkbox"/>	Batch QC <input type="checkbox"/>	Basic EDD <input type="checkbox"/>
Rush 3 day <input type="checkbox"/>	Category A <input checked="" type="checkbox"/>	NYSDEC EDD <input checked="" type="checkbox"/>
Rush 2 day <input type="checkbox"/>	Category B <input type="checkbox"/>	
Rush 1 day <input type="checkbox"/>		
Date Needed _____ please indicate date needed:	Other <input type="checkbox"/> please indicate package needed:	Other EDD <input type="checkbox"/> please indicate EDD needed:

Skular Francis - Mary Legawiec 4/27/22
 Sampled By _____ Date/Time
 Returned By _____ Date/Time 4/28/22 16:41
 Received By _____ Date/Time 4/28/22 16:41
 Received @ Lab By _____ Date/Time

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.



Chain of Custody Supplement

2072
3 of 3
CP
4/29/22

Client: Bergmann
Lab Project ID: 221028

Completed by: Emilie Hycle
Date: 4/29/22

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

NELAC compliance with the sample condition requirements upon receipt

Condition	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> VOA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Preservation	<input checked="" type="checkbox"/> Metals VOA	<input type="checkbox"/>	<input checked="" type="checkbox"/> SVOA
Comments	_____		
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments	_____		
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> Metals
Comments	<u>20C iud</u>		
Compliant Sample Quantity/Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	_____		



ANALYTICAL REPORT

Lab Number:	L2222689
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	221928
Project Number:	221928
Report Date:	05/13/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2222689-01	MW-101 221928-01	WATER	Not Specified	04/27/22 18:30	04/29/22
L2222689-02	MWR-101 221928-02	WATER	Not Specified	04/27/22 18:22	04/29/22
L2222689-03	MW-103 221928-03	WATER	Not Specified	04/27/22 13:10	04/29/22
L2222689-04	MW-102 221928-04	WATER	Not Specified	04/27/22 10:00	04/29/22
L2222689-05	MWR-102 221928-05	WATER	Not Specified	04/27/22 12:50	04/29/22
L2222689-06	MW-105 221928-06	WATER	Not Specified	04/27/22 17:50	04/29/22
L2222689-07	MW-106 221928-07	WATER	Not Specified	04/27/22 18:00	04/29/22
L2222689-08	MS-107 221928-08	WATER	Not Specified	04/27/22 17:10	04/29/22
L2222689-09	MW-X 221928-09	WATER	Not Specified	04/27/22 00:00	04/29/22

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Semivolatile Organics

L2222689-08D: The sample has elevated detection limits due to the dilution required by the sample matrix.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Caitlin Walukevich

Title: Technical Director/Representative

Date: 05/13/22

ORGANICS

SEMIVOLATILES

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-01
 Client ID: MW-101 221928-01
 Sample Location: Not Specified

Date Collected: 04/27/22 18:30
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/05/22 07:27
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-01
 Client ID: MW-101 221928-01
 Sample Location: Not Specified

Date Collected: 04/27/22 18:30
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	92		15-120
2,4,6-Tribromophenol	119		10-120
4-Terphenyl-d14	95		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-01
 Client ID: MW-101 221928-01
 Sample Location: Not Specified

Date Collected: 04/27/22 18:30
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/22 08:39
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.06	J	ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.48		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.29		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.22		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.36		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.12		ug/l	0.10	0.04	1
Chrysene	0.27		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.07	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.20		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.24		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.04	J	ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.20		ug/l	0.10	0.04	1
Pyrene	0.52		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	0.33	J	ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 221928**Lab Number:** L2222689**Project Number:** 221928**Report Date:** 05/13/22**SAMPLE RESULTS**

Lab ID: L2222689-01
 Client ID: MW-101 221928-01
 Sample Location: Not Specified

Date Collected: 04/27/22 18:30
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		21-120
Phenol-d6	38		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	102		10-120
4-Terphenyl-d14	86		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-02
 Client ID: MWR-101 221928-02
 Sample Location: Not Specified

Date Collected: 04/27/22 18:22
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/05/22 07:51
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-02
 Client ID: MWR-101 221928-02
 Sample Location: Not Specified

Date Collected: 04/27/22 18:22
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	100		10-120
4-Terphenyl-d14	79		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-02
 Client ID: MWR-101 221928-02
 Sample Location: Not Specified

Date Collected: 04/27/22 18:22
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/22 09:11
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.32		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.12		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.17		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.35		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.11		ug/l	0.10	0.04	1
Chrysene	0.19		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.27		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.12		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.26		ug/l	0.10	0.04	1
Pyrene	0.27		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-02
 Client ID: MWR-101 221928-02
 Sample Location: Not Specified

Date Collected: 04/27/22 18:22
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	87		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	88		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-03
 Client ID: MW-103 221928-03
 Sample Location: Not Specified

Date Collected: 04/27/22 13:10
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/05/22 06:15
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-03
 Client ID: MW-103 221928-03
 Sample Location: Not Specified

Date Collected: 04/27/22 13:10
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	115		10-120
4-Terphenyl-d14	91		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-03
 Client ID: MW-103 221928-03
 Sample Location: Not Specified

Date Collected: 04/27/22 13:10
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/22 09:28
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.11		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.10		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.13		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.10		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.16		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.05	J	ug/l	0.10	0.04	1
Chrysene	0.10		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.09	J	ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.08	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.09	J	ug/l	0.10	0.04	1
Pyrene	0.31		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 221928**Lab Number:** L2222689**Project Number:** 221928**Report Date:** 05/13/22**SAMPLE RESULTS**

Lab ID: L2222689-03

Date Collected: 04/27/22 13:10

Client ID: MW-103 221928-03

Date Received: 04/29/22

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	60		21-120
Phenol-d6	41		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	110		10-120
4-Terphenyl-d14	92		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-04
 Client ID: MW-102 221928-04
 Sample Location: Not Specified

Date Collected: 04/27/22 10:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/13/22 15:48
 Analyst: IM

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-04
 Client ID: MW-102 221928-04
 Sample Location: Not Specified

Date Collected: 04/27/22 10:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	64		15-120
2,4,6-Tribromophenol	66		10-120
4-Terphenyl-d14	59		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-04
 Client ID: MW-102 221928-04
 Sample Location: Not Specified

Date Collected: 04/27/22 10:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/22 09:44
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.09	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.02	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-04

Date Collected: 04/27/22 10:00

Client ID: MW-102 221928-04

Date Received: 04/29/22

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	90		15-120
2,4,6-Tribromophenol	113		10-120
4-Terphenyl-d14	93		41-149

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-05
 Client ID: MWR-102 221928-05
 Sample Location: Not Specified

Date Collected: 04/27/22 12:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/05/22 06:39
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-05
 Client ID: MWR-102 221928-05
 Sample Location: Not Specified

Date Collected: 04/27/22 12:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	84		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-05
 Client ID: MWR-102 221928-05
 Sample Location: Not Specified

Date Collected: 04/27/22 12:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/22 10:00
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-05
 Client ID: MWR-102 221928-05
 Sample Location: Not Specified

Date Collected: 04/27/22 12:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	55		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	88		41-149

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-06
 Client ID: MW-105 221928-06
 Sample Location: Not Specified

Date Collected: 04/27/22 17:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/05/22 03:49
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:26

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-06
 Client ID: MW-105 221928-06
 Sample Location: Not Specified

Date Collected: 04/27/22 17:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	42		21-120
Phenol-d6	27		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	104		10-120
4-Terphenyl-d14	84		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-06
 Client ID: MW-105 221928-06
 Sample Location: Not Specified

Date Collected: 04/27/22 17:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/22 10:17
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 221928**Lab Number:** L2222689**Project Number:** 221928**Report Date:** 05/13/22**SAMPLE RESULTS**

Lab ID: L2222689-06
 Client ID: MW-105 221928-06
 Sample Location: Not Specified

Date Collected: 04/27/22 17:50
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	39		10-120
Nitrobenzene-d5	98		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	105		10-120
4-Terphenyl-d14	84		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-07
 Client ID: MW-106 221928-07
 Sample Location: Not Specified

Date Collected: 04/27/22 18:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/05/22 07:03
 Analyst: ALS

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	2.6	J	ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-07
 Client ID: MW-106 221928-07
 Sample Location: Not Specified

Date Collected: 04/27/22 18:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	49		21-120
Phenol-d6	36		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	83		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-07
 Client ID: MW-106 221928-07
 Sample Location: Not Specified

Date Collected: 04/27/22 18:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/22 10:33
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 17:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.34		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.60		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.12		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.45		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.30		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.35		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.13		ug/l	0.10	0.04	1
Chrysene	0.28		ug/l	0.10	0.04	1
Acenaphthylene	0.06	J	ug/l	0.10	0.04	1
Anthracene	0.12		ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.20		ug/l	0.10	0.04	1
Fluorene	0.08	J	ug/l	0.10	0.04	1
Phenanthrene	0.21		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	0.05	J	ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.22		ug/l	0.10	0.04	1
Pyrene	0.72		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 221928**Lab Number:** L2222689**Project Number:** 221928**Report Date:** 05/13/22**SAMPLE RESULTS**

Lab ID: L2222689-07
 Client ID: MW-106 221928-07
 Sample Location: Not Specified

Date Collected: 04/27/22 18:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	108		10-120
4-Terphenyl-d14	89		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-08
 Client ID: MS-107 221928-08
 Sample Location: Not Specified

Date Collected: 04/27/22 17:10
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/22 10:50
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 17:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.22		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.04	J	ug/l	0.10	0.04	1
Benzo(a)anthracene	0.29		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.17		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.30		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.10	J	ug/l	0.10	0.04	1
Chrysene	0.21		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.04	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.11		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	0.08	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.12		ug/l	0.10	0.04	1
Pyrene	0.32		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 221928**Lab Number:** L2222689**Project Number:** 221928**Report Date:** 05/13/22**SAMPLE RESULTS**

Lab ID: L2222689-08
 Client ID: MS-107 221928-08
 Sample Location: Not Specified

Date Collected: 04/27/22 17:10
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	42		10-120
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	109		10-120
4-Terphenyl-d14	90		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-08 D
 Client ID: MS-107 221928-08
 Sample Location: Not Specified

Date Collected: 04/27/22 17:10
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/05/22 15:24
 Analyst: IM

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 11:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	10	4.4	5
3,3'-Dichlorobenzidine	ND		ug/l	25	4.3	5
2,4-Dinitrotoluene	ND		ug/l	25	1.9	5
2,6-Dinitrotoluene	ND		ug/l	25	1.8	5
4-Chlorophenyl phenyl ether	ND		ug/l	10	4.0	5
4-Bromophenyl phenyl ether	ND		ug/l	10	3.2	5
Bis(2-chloroisopropyl)ether	ND		ug/l	10	8.8	5
Bis(2-chloroethoxy)methane	ND		ug/l	25	7.4	5
Hexachlorocyclopentadiene	ND		ug/l	100	3.0	5
Isophorone	ND		ug/l	25	3.3	5
Nitrobenzene	ND		ug/l	10	3.3	5
NDPA/DPA	ND		ug/l	10	3.2	5
n-Nitrosodi-n-propylamine	ND		ug/l	25	3.8	5
Bis(2-ethylhexyl)phthalate	ND		ug/l	15	7.6	5
Butyl benzyl phthalate	ND		ug/l	25	11.	5
Di-n-butylphthalate	ND		ug/l	25	2.9	5
Di-n-octylphthalate	ND		ug/l	25	12.	5
Diethyl phthalate	ND		ug/l	25	22.	5
Dimethyl phthalate	ND		ug/l	25	22.	5
Biphenyl	ND		ug/l	10	3.2	5
4-Chloroaniline	ND		ug/l	25	3.2	5
2-Nitroaniline	ND		ug/l	25	2.6	5
3-Nitroaniline	ND		ug/l	25	2.9	5
4-Nitroaniline	ND		ug/l	25	2.9	5
Dibenzofuran	ND		ug/l	10	4.1	5
1,2,4,5-Tetrachlorobenzene	ND		ug/l	50	3.1	5
Acetophenone	ND		ug/l	25	4.9	5
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	5

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-08 D

Date Collected: 04/27/22 17:10

Client ID: MS-107 221928-08

Date Received: 04/29/22

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	10	2.0	5
2-Chlorophenol	ND		ug/l	10	2.0	5
2,4-Dichlorophenol	ND		ug/l	25	2.6	5
2,4-Dimethylphenol	ND		ug/l	25	5.5	5
2-Nitrophenol	ND		ug/l	50	2.3	5
4-Nitrophenol	ND		ug/l	50	5.7	5
2,4-Dinitrophenol	ND		ug/l	100	18.	5
4,6-Dinitro-o-cresol	ND		ug/l	50	27.	5
Phenol	ND		ug/l	25	6.5	5
2-Methylphenol	ND		ug/l	25	5.5	5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	5
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	5
Carbazole	ND		ug/l	10	3.8	5
Atrazine	ND		ug/l	50	8.6	5
Benzaldehyde	ND		ug/l	25	4.5	5
Caprolactam	ND		ug/l	50	6.4	5
2,3,4,6-Tetrachlorophenol	ND		ug/l	25	2.3	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	75		10-120
4-Terphenyl-d14	76		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-09
 Client ID: MW-X 221928-09
 Sample Location: Not Specified

Date Collected: 04/27/22 00:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 05/05/22 15:48
 Analyst: IM

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 16:13

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.61	1
Isophorone	ND		ug/l	5.0	0.66	1
Nitrobenzene	ND		ug/l	2.0	0.66	1
NDPA/DPA	ND		ug/l	2.0	0.65	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	2.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.58	1
Di-n-octylphthalate	ND		ug/l	5.0	2.4	1
Diethyl phthalate	ND		ug/l	5.0	4.3	1
Dimethyl phthalate	ND		ug/l	5.0	4.4	1
Biphenyl	ND		ug/l	2.0	0.64	1
4-Chloroaniline	ND		ug/l	5.0	0.65	1
2-Nitroaniline	ND		ug/l	5.0	0.52	1
3-Nitroaniline	ND		ug/l	5.0	0.57	1
4-Nitroaniline	ND		ug/l	5.0	0.58	1
Dibenzofuran	ND		ug/l	2.0	0.82	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62	1
Acetophenone	ND		ug/l	5.0	0.98	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49	1

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-09
 Client ID: MW-X 221928-09
 Sample Location: Not Specified

Date Collected: 04/27/22 00:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
p-Chloro-m-cresol	ND		ug/l	2.0	0.41	1
2-Chlorophenol	ND		ug/l	2.0	0.40	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.53	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.1	1
2-Nitrophenol	ND		ug/l	10	0.46	1
4-Nitrophenol	ND		ug/l	10	1.1	1
2,4-Dinitrophenol	ND		ug/l	20	3.6	1
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4	1
Phenol	ND		ug/l	5.0	1.3	1
2-Methylphenol	ND		ug/l	5.0	1.1	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38	1
Carbazole	ND		ug/l	2.0	0.76	1
Atrazine	ND		ug/l	10	1.7	1
Benzaldehyde	ND		ug/l	5.0	0.90	1
Caprolactam	ND		ug/l	10	1.3	1
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	35		21-120
Phenol-d6	25		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	51		15-120
2,4,6-Tribromophenol	50		10-120
4-Terphenyl-d14	48		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

SAMPLE RESULTS

Lab ID: L2222689-09
 Client ID: MW-X 221928-09
 Sample Location: Not Specified

Date Collected: 04/27/22 00:00
 Date Received: 04/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 05/04/22 11:39
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 05/02/22 17:17

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.06	J	ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.40		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	0.13		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.26		ug/l	0.10	0.02	1
Benzo(a)pyrene	0.17		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	0.28		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	0.08	J	ug/l	0.10	0.04	1
Chrysene	0.21		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	0.08	J	ug/l	0.10	0.04	1
Benzo(ghi)perylene	0.14		ug/l	0.10	0.04	1
Fluorene	0.04	J	ug/l	0.10	0.04	1
Phenanthrene	0.24		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	0.15		ug/l	0.10	0.04	1
Pyrene	0.43		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 221928**Lab Number:** L2222689**Project Number:** 221928**Report Date:** 05/13/22**SAMPLE RESULTS**

Lab ID: L2222689-09

Date Collected: 04/27/22 00:00

Client ID: MW-X 221928-09

Date Received: 04/29/22

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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Semivolatile Organics by GC/MS-SIM - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	65		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	69		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 05/03/22 16:50
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 05/01/22 08:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1632936-1					
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.88
3,3'-Dichlorobenzidine	ND		ug/l	5.0	0.85
2,4-Dinitrotoluene	ND		ug/l	5.0	0.38
2,6-Dinitrotoluene	ND		ug/l	5.0	0.37
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.80
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.63
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	1.8
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	1.5
Hexachlorocyclopentadiene	ND		ug/l	20	0.61
Isophorone	ND		ug/l	5.0	0.66
Nitrobenzene	ND		ug/l	2.0	0.66
NDPA/DPA	ND		ug/l	2.0	0.65
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.77
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	2.2
Di-n-butylphthalate	ND		ug/l	5.0	0.58
Di-n-octylphthalate	ND		ug/l	5.0	2.4
Diethyl phthalate	ND		ug/l	5.0	4.3
Dimethyl phthalate	ND		ug/l	5.0	4.4
Biphenyl	ND		ug/l	2.0	0.64
4-Chloroaniline	ND		ug/l	5.0	0.65
2-Nitroaniline	ND		ug/l	5.0	0.52
3-Nitroaniline	ND		ug/l	5.0	0.57
4-Nitroaniline	ND		ug/l	5.0	0.58
Dibenzofuran	ND		ug/l	2.0	0.82
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.62
Acetophenone	ND		ug/l	5.0	0.98
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.49
p-Chloro-m-cresol	ND		ug/l	2.0	0.41

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 05/03/22 16:50
Analyst: IM

Extraction Method: EPA 3510C
Extraction Date: 05/01/22 08:45

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1632936-1					
2-Chlorophenol	ND		ug/l	2.0	0.40
2,4-Dichlorophenol	ND		ug/l	5.0	0.53
2,4-Dimethylphenol	ND		ug/l	5.0	1.1
2-Nitrophenol	ND		ug/l	10	0.46
4-Nitrophenol	ND		ug/l	10	1.1
2,4-Dinitrophenol	ND		ug/l	20	3.6
4,6-Dinitro-o-cresol	ND		ug/l	10	5.4
Phenol	ND		ug/l	5.0	1.3
2-Methylphenol	ND		ug/l	5.0	1.1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	0.55
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.38
Carbazole	ND		ug/l	2.0	0.76
Atrazine	ND		ug/l	10	1.7
Benzaldehyde	ND		ug/l	5.0	0.90
Caprolactam	ND		ug/l	10	1.3
2,3,4,6-Tetrachlorophenol	ND		ug/l	5.0	0.47

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		21-120
Phenol-d6	37		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	93		41-149

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/02/22 13:35
Analyst: JJW

Extraction Method: EPA 3510C
Extraction Date: 05/01/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-09 Batch: WG1632937-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D-SIM
 Analytical Date: 05/02/22 13:35
 Analyst: JJW

Extraction Method: EPA 3510C
 Extraction Date: 05/01/22 08:47

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-09 Batch: WG1632937-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	59		21-120
Phenol-d6	40		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	89		10-120
4-Terphenyl-d14	81		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 221928

Project Number: 221928

Lab Number: L2222689

Report Date: 05/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1632936-2 WG1632936-3								
Bis(2-chloroethyl)ether	87		66		40-140	27		30
3,3'-Dichlorobenzidine	68		49		40-140	32	Q	30
2,4-Dinitrotoluene	91		68		48-143	29		30
2,6-Dinitrotoluene	91		71		40-140	25		30
4-Chlorophenyl phenyl ether	87		67		40-140	26		30
4-Bromophenyl phenyl ether	83		63		40-140	27		30
Bis(2-chloroisopropyl)ether	96		74		40-140	26		30
Bis(2-chloroethoxy)methane	89		67		40-140	28		30
Hexachlorocyclopentadiene	37	Q	28	Q	40-140	28		30
Isophorone	87		65		40-140	29		30
Nitrobenzene	83		64		40-140	26		30
NDPA/DPA	86		66		40-140	26		30
n-Nitrosodi-n-propylamine	84		64		29-132	27		30
Bis(2-ethylhexyl)phthalate	96		71		40-140	30		30
Butyl benzyl phthalate	89		69		40-140	25		30
Di-n-butylphthalate	93		70		40-140	28		30
Di-n-octylphthalate	98		73		40-140	29		30
Diethyl phthalate	87		67		40-140	26		30
Dimethyl phthalate	90		68		40-140	28		30
Biphenyl	87		66		40-140	27		30
4-Chloroaniline	81		65		40-140	22		30
2-Nitroaniline	94		72		52-143	27		30
3-Nitroaniline	74		54		25-145	31	Q	30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 221928

Project Number: 221928

Lab Number: L2222689

Report Date: 05/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1632936-2 WG1632936-3								
4-Nitroaniline	83		67		51-143	21		30
Dibenzofuran	87		65		40-140	29		30
1,2,4,5-Tetrachlorobenzene	87		64		2-134	30		30
Acetophenone	84		62		39-129	30		30
2,4,6-Trichlorophenol	94		71		30-130	28		30
p-Chloro-m-cresol	92		69		23-97	29		30
2-Chlorophenol	87		67		27-123	26		30
2,4-Dichlorophenol	90		68		30-130	28		30
2,4-Dimethylphenol	86		65		30-130	28		30
2-Nitrophenol	93		69		30-130	30		30
4-Nitrophenol	56		44		10-80	24		30
2,4-Dinitrophenol	54		32		20-130	51	Q	30
4,6-Dinitro-o-cresol	95		68		20-164	33	Q	30
Phenol	46		34		12-110	30		30
2-Methylphenol	82		61		30-130	29		30
3-Methylphenol/4-Methylphenol	85		60		30-130	34	Q	30
2,4,5-Trichlorophenol	97		71		30-130	31	Q	30
Carbazole	91		70		55-144	26		30
Atrazine	75		59		40-140	24		30
Benzaldehyde	78		61		40-140	24		30
Caprolactam	32		25		10-130	25		30
2,3,4,6-Tetrachlorophenol	86		64		40-140	29		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1632936-2 WG1632936-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	61		47		21-120
Phenol-d6	43		33		10-120
Nitrobenzene-d5	87		65		23-120
2-Fluorobiphenyl	86		65		15-120
2,4,6-Tribromophenol	87		65		10-120
4-Terphenyl-d14	85		67		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 221928

Project Number: 221928

Lab Number: L2222689

Report Date: 05/13/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 Batch: WG1632937-2 WG1632937-3								
Acenaphthene	86		80		40-140	7		40
2-Chloronaphthalene	88		76		40-140	15		40
Fluoranthene	93		88		40-140	6		40
Hexachlorobutadiene	76		67		40-140	13		40
Naphthalene	82		72		40-140	13		40
Benzo(a)anthracene	106		98		40-140	8		40
Benzo(a)pyrene	101		97		40-140	4		40
Benzo(b)fluoranthene	96		97		40-140	1		40
Benzo(k)fluoranthene	100		91		40-140	9		40
Chrysene	83		82		40-140	1		40
Acenaphthylene	94		81		40-140	15		40
Anthracene	90		86		40-140	5		40
Benzo(ghi)perylene	98		95		40-140	3		40
Fluorene	91		85		40-140	7		40
Phenanthrene	84		80		40-140	5		40
Dibenzo(a,h)anthracene	107		102		40-140	5		40
Indeno(1,2,3-cd)pyrene	104		100		40-140	4		40
Pyrene	94		89		40-140	5		40
2-Methylnaphthalene	85		73		40-140	15		40
Pentachlorophenol	70		62		40-140	12		40
Hexachlorobenzene	74		71		40-140	4		40
Hexachloroethane	80		67		40-140	18		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 Batch: WG1632937-2 WG1632937-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	63		53		21-120
Phenol-d6	42		35		10-120
Nitrobenzene-d5	91		74		23-120
2-Fluorobiphenyl	82		72		15-120
2,4,6-Tribromophenol	96		90		10-120
4-Terphenyl-d14	84		80		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: 221928

Lab Number: L2222689

Project Number: 221928

Report Date: 05/13/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1632937-4 WG1632937-5 QC Sample: L2222689-08 Client ID: MS-107 221928-08												
Acenaphthene	ND	40	30	75		34	85		40-140	13		40
2-Chloronaphthalene	ND	40	31	78		34	85		40-140	9		40
Fluoranthene	0.22	40	32	79		37	92		40-140	14		40
Hexachlorobutadiene	ND	40	26	65		25	63		40-140	4		40
Naphthalene	0.04J	40	29	73		31	78		40-140	7		40
Benzo(a)anthracene	0.29	40	36	89		42	100		40-140	15		40
Benzo(a)pyrene	0.17	40	31	77		36	90		40-140	15		40
Benzo(b)fluoranthene	0.30	40	34	84		39	97		40-140	14		40
Benzo(k)fluoranthene	0.10J	40	33	83		37	93		40-140	11		40
Chrysene	0.21	40	28	69		34	84		40-140	19		40
Acenaphthylene	ND	40	32	80		36	90		40-140	12		40
Anthracene	0.04J	40	30	75		35	88		40-140	15		40
Benzo(ghi)perylene	0.11	40	32	80		38	95		40-140	17		40
Fluorene	ND	40	32	80		37	93		40-140	14		40
Phenanthrene	0.08J	40	29	73		33	83		40-140	13		40
Dibenzo(a,h)anthracene	ND	40	34	85		40	100		40-140	16		40
Indeno(1,2,3-cd)pyrene	0.12	40	36	90		42	100		40-140	15		40
Pyrene	0.32	40	32	79		37	92		40-140	14		40
2-Methylnaphthalene	ND	40	30	75		32	80		40-140	6		40
Pentachlorophenol	ND	40	22	55		38	95		40-140	53	Q	40
Hexachlorobenzene	ND	40	25	63		29	73		40-140	15		40
Hexachloroethane	ND	40	28	70		28	70		40-140	0		40

Matrix Spike Analysis Batch Quality Control

Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
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Semivolatiles Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1632937-4 WG1632937-5 QC Sample: L2222689-08
Client ID: MS-107 221928-08

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
2,4,6-Tribromophenol	77		98		10-120
2-Fluorobiphenyl	74		85		15-120
2-Fluorophenol	49		60		21-120
4-Terphenyl-d14	71		82		41-149
Nitrobenzene-d5	82		94		23-120
Phenol-d6	37		41		10-120



Project Name: 221928

Project Number: 221928

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2222689-01A	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-02A	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-03A	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-04A	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-05A	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-06A	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-07A	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-08A	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-08A1	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-08A2	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L2222689-09A	Amber 1000ml unpreserved	C	7	7	3.6	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)

*Values in parentheses indicate holding time in days



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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers



Project Name: 221928
Project Number: 221928

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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



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Report Date: 05/13/22

Data Qualifiers

- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: 221928
Project Number: 221928

Lab Number: L2222689
Report Date: 05/13/22

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

L 2272689
 L 2222687 (11148) 11148

REPORT TO:		INVOICE TO:	
COMPANY: Paradigm Environmental	ADDRESS: 179 Lake Avenue	COMPANY: Same	ADDRESS:
CITY: Rochester STATE: NY ZIP: 14608	PHONE: FAX:	CITY: STATE: ZIP:	PHONE: FAX:
ATTN: Reporting	COMMENTS: Please email results to reporting@paradigmenv.com	ATTN: Accounts Payable	
LAB PROJECT #:		CLIENT PROJECT #:	
TURNAROUND TIME: (WORKING DAYS)		Date Due: Standard Turn	

PROJECT NAME/SITE NAME:

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER NUMBER	ANALYSIS	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 4/27/12	18:30		X	MW - 101	Ground Water	1	X	ASP Cat A. Report J Flags. SW-846 HT's.	221928-01
2	18:22			MWR - 101					-02
3	13:10			MW - 103					-03
4	10:00			MW - 102					-04
5	12:50			MWR - 102					-05
6	17:50			MW - 105					-06
7	18:00			MW - 106					-07
8	17:10			MW - 107		3	X		-08
9	-			MW - X		1			-09
10									

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type: <input checked="" type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>
Preservation: <input type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>
Holding Time: <input type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>
Temperature: <input type="checkbox"/>	Y <input type="checkbox"/>	N <input type="checkbox"/>

Client

Sampled By: *[Signature]* Date/Time: 4/29/12 16:00

Relinquished By: *R. Cunningham* AAL Date/Time: 4/29/12 13:55

Received By: *[Signature]* Date/Time: 4/30/12 0010

Received @ Lab By: _____ Date/Time: _____

Total Cost:

P.I.F.



APPENDIX 5

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5353 | F: (585) 226-8139
www.dec.ny.gov

June 3, 2020

Lynn Sullivan
President & Chief Executive Officer
Volunteers of America
214 Lake Avenue
Rochester, New York 14608

Re: Site Management Modification Request
Volunteers of America
Site No.: C828126
City of Rochester, Monroe (C)

Dear Ms. Sullivan:

The New York Department of Environmental Conservation (Department) in conjunction with the New York State Department of Health (NYSDOH) have reviewed the request for termination of the groundwater monitoring component of site management for the Volunteers of America site (Site) that was submitted on your behalf by Mr. Steve DeMeo of Bergmann Associates. The Department and NYSDOH have reviewed the request and determined that the termination of the groundwater monitoring site management requirement is not acceptable at this time.

In lieu of terminating the groundwater monitoring site management requirement, the Department and NYSDOH are recommending that the groundwater monitoring sampling frequency be reduced to annual for a duration of two years. In addition to the sampling frequency reduction, the groundwater laboratory data package can be changed from a Category B to a Category A.

Enclosed is the modified cover page to the Site Management Plan. Please attach the modified cover page and this letter to the Site Management Plan. If you have any questions or concerns regarding this letter, or further assistance with the site, please feel free to contact me at 585-226-5354 or via e-mail: charlotte.theobald@dec.ny.gov

Sincerely,



Charlotte Theobald
Project Manager
Assistant Engineer

ec:

Allis Marion (Volunteers of America)
Steve DeMeo (Bergmann Associates)
Ariadna Cheremeteff (Bergmann Associates)
David Plante (Bergmann Associates)

Justin Deming (NYSDOH)
Melissa Doroski (NYSDOH)
David G. Pratt (NYSDEC)
Todd Caffoe (NYSDEC)



Volunteers of America – Back Lot Site

**Monroe County
Rochester, NY**

**SITE MANAGEMENT PLAN
NYSDEC Site Number: C828126**

Prepared for:

Volunteers of America Upstate New York
214 Lake Avenue
Rochester, NY

Prepared by:

Bergmann
280 East Broad Street
Suite 200
Rochester, New York 14604
(585) 232-5135

Revisions to Final Approved Site Management Plan:

Revision No.	Date Submitted	Summary of Revision	NYSDEC Approval Date
1	05/08/2020	Modification of groundwater sampling frequency and laboratory data package	06/03/2020

[December 2017]