2022 Periodic Review Report

Location:

Former Roblin Steel Site
320 South Roberts Road, Dunkirk, New York
NYSDEC Site No. B00173-9

Prepared for:

Chautauqua County Department of Public Facilities
454 North Work Street
Falconer, New York

LaBella Project No. 2200014

February 17, 2023

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1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) is a required element of the approved Site Management Plan (SMP) (June 2021 revision) for the former Roblin Steel Site in Dunkirk, New York. The Site was remediated in accordance with State Assistance Contract (SAC) No. C302808, Site No. B00173-9, which was executed on December 12, 2005.

1.1 Site Summary

The former Roblin Steel Site (hereafter referred to as the "Site") occupies approximately 12 acres of a former industrial park in the City of Dunkirk, Chautauqua County, New York. Historically, the Site contained numerous buildings, the last of which was demolished as part of remedial activities conducted in 2010. The Site is located in an area zoned for industrial use. An environmental investigation conducted at the Site revealed that contamination associated with historical operations had impacted the Site, necessitating remedial activities. The remedial activities were completed pursuant to the Environmental Restoration Program component of Title 5 of the Clean Water/Clean Air Bond Act of 1996, which was administered by the New York State Department of Environmental Conservation (NYSDEC). Following completion of the remedial work described in the Remedial Action Work Plan (RAWP), some contamination was left in the subsurface of the Site, which is hereafter referred to as "remaining contamination." The remedial efforts also included development of a SMP to manage the remaining contamination at the Site in perpetuity or until extinguishment of the Environmental Easement that was placed on the Site, in accordance with Environmental Conservation Law (ECL) Article 71, Title 36.

1.2 Effectiveness of Remedial Program

Based on a recent inspection of the Site, the Site soil cover system is intact and functioning as designed on the Site. As a result of increases in total VOC concentrations in laboratory groundwater analytical results associated with the sampling of MW-07R and EX-MW-11R, in December 2021 and March 2022, the NYSDEC requested a Corrective Measures Work Plan (CMWP). Such was submitted to the NYSDEC in September 2022 and included a scope of work for the installation of one new permanent groundwater monitoring well (MW-13) between MW-07R and the north property boundary and an injection event proximate both MW-07R and EX-MW-11R. A new well was requested in order to assess total VOC concentrations proximate the north property boundary and to determine whether VOCs appeared to be migrating off-site to the north. In addition, the injection events were proposed in an effort to further breakdown the VOC concentrations proximate MW-07R and EX-MW-11R. An injection permit was submitted to the United States Environmental Protection Agency (USEPA) in late November 2022 with the injection event slated for Spring 2023.

1.3 Non-Compliance

No areas of non-compliance regarding the major elements of the SMP were identified during the preparation of this PRR.

1.4 Recommendations

Overall, the remedial program is viewed to be effective in achieving the remedial objectives for the Site.

No changes to the SMP or the frequency of PRR submissions are recommended at this time with the exception of the proper decommissioning of MW-01, at the discretion of the established remedial party.

Continued evaluation of all Site wells is warranted, and contaminant concentration in the wells should be closely examined to determine if an increasing trend materializes. In addition, it is recommended that the remaining scope of work within the CMWP be carried out at the Site.

2.0 SITE OVERVIEW

The Site is located at 320 South Roberts Road in the City of Dunkirk, New York. Figure 1 shows the location of the Site and Figure 2 is the Site plan that depicts the Site configuration and location of the groundwater monitoring well network. Progress Drive transects the eastern portion of the Site in a northeast-southwest direction. As a result, a portion of the Site is located east of the roadway and separated from the remainder of the Site. The Site is located in an area zoned for industrial use. A mixture of commercial, industrial and residential properties comprises the land use in the Site's vicinity. The Site is bounded to the north by an active CSX rail yard; to the east by active Norfolk Southern railroad tracks; to the south by the Former Alumax extrusions property; and to the west by a recently constructed freezer warehouse facility. Residential properties are located to the northwest and south of the Site beyond the adjoining properties. Lake Erie is situated approximately 3,400 feet to the northwest of the Site. Hyde Creek is located approximately 100 feet from the northeast corner of the Site.

2.1 Site Background

The Site occupies approximately 12 acres of a former industrial park. Historically, the Site contained a large complex of industrial buildings. The last remaining building was demolished as part of the 2010 remedial activities. The adjoining properties located in the former industrial park include the Former Alumax Extrusions property located to the south and the recently redeveloped Former Edgewood Warehouse property located to the west. In 1910, all three of these properties were developed as part of a larger industrial complex operated by the American Locomotive Company. The Site was later used for steel reclamation; however, operations ceased in 1987. Following this closure, salvage operations dismantled and partially demolished a majority of the Site structures throughout the late 1980s and early 1990s. Since that time, the Site has been vacant.

Following acquisition of the Site by Chautauqua County in December 2001, the site was investigated and remediated pursuant to the SAC executed between the County and NYSDEC. The remediation of the site was completed in September 2010 and rendered the site suitable for commercial or industrial use. Details pertaining to the remedial investigation and remedial construction program completed at the Site are summarized in Section 2.2 below.

In May 2013, the construction of a new public roadway through a portion of the site was initiated. The soil cover system established as part of the previous remediation of the Site was disturbed in conjunction with the construction of the new roadway in the Summer/Fall of 2014. Disturbance of the soil cover was completed in accordance with the provisions of the Excavation Work Plan (EWP) contained in the SMP. The cover system was restored by the end of 2014 in accordance with the Record of Decision (ROD) and the SMP upon completion of the new roadway.

2.2 Remedial Program Overview

As indicated above, a remedial investigation was conducted at the Site between 2002 and 2003. Such revealed that contamination associated with historical operations had impacted the Site, necessitating remedial activities. The NYSDEC issued a ROD in March 2005.
The ROD identified seven impacted Media Groups (MGs) associated with the Site. The MGs included:

- Surface soil/fill debris piles;
- Subsurface soil/fill impacted with chlorinated volatile organic compounds (VOCs);
- Subsurface soil/fill impacted with polyaromatic hydrocarbons and metals, and/or petroleum nuisance characteristics;
- Drainage features and contents;
- Building components;
- Concrete and surface soil impacted with polychlorinated biphenyls (PCBs); and,
- Groundwater impacted with VOCs.

The RAWP prepared in February 2006 described the specific remedial activities that would be implemented at the Site to complete the remediation in accordance with the ROD. The remediation program included two distinct types of activities; those that were related to the removal or treatment of contaminated material (Phase I) and those that were directly related to the redevelopment and reuse of the Site (Phase II). The Phase I components included:

- Excavation and off-site disposal of surface soil/fill that exceeded the Site-Specific Cleanup Levels (SSCLs);
- Excavation and off-site disposal of subsurface soil/fill that exceeded SSCLs;
- Cleaning and filling of Site drainage features;
- Removal and disposal of PCB-containing electrical equipment;
- Removal and disposal of miscellaneous Site debris;
- Decommissioning of monitoring wells that were not part of the long-term monitoring program; and,
- Enhanced natural attenuation of Site groundwater.

The Phase II activities included the following:

- Removal of asbestos-containing materials (ACMs);
- Demolition of the building;
- Removal and crushing of the concrete slabs and top 12 inches of the foundations followed by the placement and grading of the crushed concrete on the Site;
- Placement of a demarcation layer (orange fencing) on top of the original Site surface covered by 12 inches of clean NYSDEC Division of Environmental Remediation (DER)-10 approved soil across the entirety of the Site; and
- Establishment of vegetative cover

Following completion of the remedial work described in the RAWP, some contamination may have been left in the subsurface of the Site. The remedial efforts also included development of the SMP (revised June 2021) to manage remaining contamination at the Site in perpetuity or until extinguishment of the Environmental Easement in accordance with ECL Article 71, Title 36.

As a result of increases in total VOC concentrations in laboratory groundwater analytical results associated with the sampling of MW-07R and EX-MW-11R, in December 2021 and March 2022, the NYSDEC requested a CMWP.

Such was submitted to the NYSDEC in September 2022 and included a scope of work for the installation of one new permanent groundwater monitoring well (MW-13) between MW-07R and the north property boundary and an injection event proximate both MW-07R and EX-MW-11R. A new well was requested in order to assess total VOC concentrations proximate the north property boundary and to determine whether VOCs appeared to be migrating off-site to the north. In addition, the injection events were proposed in an effort to further breakdown the VOC concentrations proximate MW-07R and EX-MW-11R. An injection permit was submitted to the USEPA in late November 2022 with the injection event slated for Spring 2023.

3.0 EFFECTIVENESS OF THE REMEDIAL PROGRAM

All remedial actions described in the RAWP were completed during Phase I and Phase II of the remedial program. Remedial goals were accomplished through the removal and off-site disposal of contaminated media exceeding the SSCLs; removal of PCB equipment; enhanced natural attenuation of the Site groundwater; removal of ACMs; demolition of the Site building; and the installation of the Site-wide cover system to prevent exposure to remaining contamination in the subsurface.

As detailed below in Section 4.1.2, the Site Soil Cover System was inspected on December 13, 2022. Based on this inspection, the cover system is intact and functioning effectively throughout the Site.

As a result of increases in total VOC concentrations in laboratory groundwater analytical results associated with the sampling of MW-07R and EX-MW-11R, in December 2021 and March 2022, the NYSDEC requested a CMWP. Such was submitted to the NYSDEC in September 2022 and included a scope of work for the installation of one new permanent groundwater monitoring well (MW-13) between MW-07R and the north property boundary and an injection event proximate both MW-07R and EX-MW-11R. A new well was requested in order to assess total VOC concentrations proximate the north property boundary and to determine whether VOCs appeared to be migrating off-site to the north. In addition, the injection events were proposed in an effort to further breakdown the VOC concentrations proximate MW-07R and EX-MW-11R. An injection permit was submitted to the United States Environmental Protection Agency in late November 2022 with the injection event slated for Spring 2023.

4.0 INSTITUTIONAL/ENGINEERING CONTROL (IC/EC) PLAN COMPLIANCE REPORT

4.1 IC/EC Requirements and Compliance

4.1.1 IC Requirements-Site Restrictions

In accordance with the SMP, the Site has a series of Institutional Controls (ICs) in the form of Site restrictions. Adherence to these ICs is required by the Environmental Easement.

The Environmental Easement is described on the Boundary Survey of the Former Roblin Steel Site, included within Appendix 1. Site restrictions that apply are as follows:

- The Site may only be used for commercial or industrial use provided that the long-term ICs/Engineering Controls (ECs) included in the SMP are employed;
- The Site may not be used for a higher level of use, such as unrestricted, residential or restricted-residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities at the Site that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of groundwater underlying the Site is restricted as a source of potable or process water, without necessary water quality treatment, as determined by the Chautauqua County Department of Health;
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be monitored and mitigated;
- The SMP will provide for the operation and maintenance of the components of the remedy;
- Vegetable gardens and farming on the Site are prohibited; and,
- The Site owner is required to provide an IC/EC certification, prepared and submitted by a professional engineer or environmental professional acceptable to the NYSDEC annually or for a period to be approved by the NYSDEC, which will certify that the ICs and ECs put in place are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP.

4.1.2 Engineering Control-Soil Cover System

Exposure to the remaining contamination in soil/fill at the Site is prevented by a soil cover system that was previously placed over the Site. This cover system is comprised of a minimum of 12 inches of clean soil overlaying a demarcation layer (orange plastic mesh material) over the entire surface of the Site. The EWP, which appears in Appendix A of the SMP, outlines the procedures that are required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. The cover system is a permanent control, and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

On December 13, 2022, Mr. Andrew Koons of LaBella Associates, D.P.C. (LaBella) conducted the annual Site inspection, which included traversing the Site on foot to observe the current conditions. The Cover Inspection Form is included herein as Appendix 2. Appendix 3 includes photographs taken during the Site inspection.

With the exception of the Progress Drive corridor that crosses the Site, the Site is generally vacant and undeveloped, with vegetated soil cover occurring at the ground surface. The soil cover at the time of the Site inspection was observed to be intact and functioning as intended. The floor and walls of the storm water ditches associated with Progress Drive were covered with a coarse, low-lying vegetation. No evidence of erosion or exposed synthetic erosion control fabric was observed within or adjacent to the ditches. Furthermore, the asphalt road surface was observed to be in good condition.

As mentioned above, one new permanent groundwater monitoring well (MW-13) was installed at the Site on December 6, 2022. Soil cuttings beneath the demarcation layer were drummed for proper off-site disposal by Environmental Services Group, Inc. of Tonawanda, New York, at a later date. Air monitoring was performed during intrusive activities as stated in the department approved CMWP. Air monitoring data did not identify exceedances of applicable regulatory guidance. Appendix 4 includes information associated with the new permanent groundwater monitoring well installation event. The location of MW-13 can be identified on Figures 2 and 3. A report detailing the construction and subsequent sampling of the new well will be provided to the NSYDEC under separate cover.

4.1.3 Engineering Control-Sub-Slab Vapor Venting System

No sub-slab vapor venting system (SSVVS) was installed as part of the Site remedy. However, any potential new structures constructed on the Site as part of Site redevelopment may be equipped with a SSVVS, if warranted. The design and sampling of the SSVVS will be performed in accordance with NYSDEC and New York State Department of Health (NYSDOH) guidance at the time the system is installed. The ultimate design of the SSVS will be dependent upon the size and configuration of any newly constructed buildings. Therefore, the specific components of the SSVVS have not been determined.

4.2 IC/EC Certification

The IC/EC Certification Form was completed in its entirety as all ICs/ECs are in place for the Site per the SMP. Appendix 5 includes the NYSDEC "Site Management Periodic Review Report Notice-Institutional and Engineering Controls Certification Form."

5.0 MONITORING PLAN COMPLIANCE REPORT

5.1 Requirements

Sections 3.0 and 5.0 of the SMP describe the measures for evaluating: (1) the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site; (2) the soil cover system; and (3) all affected Site Media.

Such Sections describe the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards;
- Monitoring the cover system;
- Assessing achievement of the remedial performance criteria;
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and,
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, these Sections provide information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g., well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and,
- Annual inspection and periodic certification.

5.2 Groundwater Monitoring

The groundwater monitoring program is to be conducted on an annual basis for 30 years. Groundwater samples are analyzed for VOCs appearing on the USEPA Target Compound List (TCL). Trends in contaminant levels in groundwater are evaluated to determine if the remedy continues to be effective in achieving remedial goals.

The groundwater monitoring network prescribed in the SMP consists of six monitoring wells, which includes MW-02R, MW-04, MW-07R, MW-09R, EX-MW11R and EX-MW-12. As noted in the 2021 PRR and observed during the annual site inspection and monitoring event conducted on December 13, 2022, MW-01 was previously damaged during construction of the freezer warehouse on the northwest adjacent property and is no longer part of the groundwater monitoring network. While MW-12 was removed from the groundwater monitoring network following completion of the December 2020 groundwater sampling event, depth to water was collected from MW-12 during the December 13, 2022, groundwater sampling event in order to assist in determining overall groundwater flow patterns at the Site. The NYSDEC authorized the omission of MW-01 and MW12 from the groundwater monitoring network in the 2020 PRR response letter submitted by the NYSDEC on February 2, 2021.

Well ID #	Top of Casing (in feet)	Depth to Water (in feet)	Groundwater Elevation (in feet)
MW-02R	616.96	6.78	610.18
MW-04	612.06	3.66	608.4
MW-07R	614.5	3.66	610.84
MW-09R	619.79	4	615.79
EX-MW-11R	616.87	5.89	610.98
EX-MW-12	615.86	6.34	609.52
MW-12	618.72	5.92	612.8
MW-13	615.82	4.91	610.91

As discussed above, one new permanent groundwater monitoring well (MW-13) was installed at the Site on December 6, 2022, and is anticipated to be included in future PRRs for the Site. A report detailing the construction and subsequent sampling of the new well will be provided to the NSYDEC under separate cover.

5.2.1 Sampling Procedure

The six groundwater monitoring wells were purged and sampled in general accordance with the procedures detailed in the SMP. This included three downgradient wells (MW-02R, MW-04, and EX-MW12) and the three wells located within areas of groundwater impacted with chlorinated VOCs (MW-09R, MW-07R and EX-MW11R). All monitoring well sampling activities were recorded on groundwater sampling logs, which are included as Appendix 6. Other observations (e.g., well integrity, etc.) were also noted on the well sampling logs. Prior to the initiation of groundwater sampling, groundwater levels were measured with an electronic water level indicator to determine the static water level below the ground surface elevation. The groundwater levels were used to determine the volume of standing water in the wells.

Well purging consisted of the evacuation of a minimum of three well volumes using NYSDEC-approved low-flow purging procedures via a Geotech Geopump II Pump. The samples were collected within three hours of completion of well purging using the low-flow method previously identified. Sample volumes were collected into clean sample bottles containing hydrochloric acid preservative provided by the laboratory. The groundwater samples were submitted for analysis of TCL VOCs via USEPA Method 8260.

5.2.2 Sample Preservation and Handling

Immediately after collection, all samples were placed in a cooler and chilled with ice. To ensure sample integrity, a Chain-of-Custody (COC) sample record was established and kept with the samples to document each person that handled the samples. The samples were transported to Test America Laboratories, Inc., a NYSDOH Environmental Laboratory Accreditation Program certified laboratory for analysis.

The COC records established for the collected samples were maintained throughout the laboratory handling. Copies of the COC and complete analytical laboratory report are included in Appendix 7.

5.2.3 Quality Assurance/Quality Control Samples

In addition to field samples, QA/QC samples were collected to evaluate the effectiveness of the QA/QC procedures implemented during the field and laboratory activities associated with the project. The QA/QC samples included a blind field duplicate and a trip blank that were also analyzed for TCL VOCs. Well sampling at the Site and adjoining, former Alumax Extrusions Site were conducted in conjunction with one another on December 13, 2022, and the samples from both sites were submitted to the laboratory together in one batch and recorded on one COC. As such, the blind field duplicate collected from the former Roblin Steel Site (collected from MW-02R) and trip blank associated with the samples from both sites were utilized to evaluate the effectiveness of the QA/QC procedures for the Site.

5.2.4 Analytical Results

The following section summarizes and discusses the analytical results generated during the aforementioned monitoring event. For discussion purposes, this data is compared with the Standards Criteria and Guidance Values applicable to groundwater: NYSDEC's June 1998 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations in the Technical and Operational Guidance Series (TOGS) 1.1.1.

Table 1 summarizes the groundwater pre- and post-remedial sampling results and compares the results to applicable water quality standards. Figure 2 depicts the locations of the monitoring wells while Figure 3 depicts apparent groundwater flow direction at the Site.

5.3 Comparisons with Remedial Objectives

As shown in Table 1, VOC concentrations were detected in all monitoring wells, with the exception of EX-MW-12, during this sampling event.

One VOC was detected in MW-04; however, the identified constituent concentration is well below the NYSDEC TOGS standard.

Five VOCs were detected in MW-02R including three VOCs (cis-1, 2-dichloroethene, vinyl chloride and benzene) at concentrations above NYSDEC TOGS Standards. Total VOC concentrations in this well have increased since the March 2022 sampling event; however, such are substantially lower than the maximum concentration detected at this location during the August 2010 sampling event.

Two VOCs were detected in MW-09R including two VOCs (cis-1,2-dichloroethene and vinyl chloride) at concentrations above NYSDEC TOGS Standards. Total VOC concentrations in this well have increased since the March 2022 sampling event, however, such are substantially lower than the maximum concentration detected at this location during the August 2010 sampling event.

Four VOCs were detected in EX-MW11R including three VOCs (cis-1,2-dichloroethene, trichloroethene and vinyl chloride) at concentrations above NYSDEC TOGS Standards. Total VOC concentrations in this well have decreased since the March 2022 sampling event. Injection proximate this well is anticipated in early 2023 as part of a NYSDEC-approved CMWP.

Two VOCs (cis-1,2-dichloroethene and vinyl chloride) were detected in MW-07R at concentrations above NYSDEC TOGS Standards. Total VOC concentrations in this well have decreased since the March 2022 sampling event. Injection proximate this well is anticipated in early 2023 as part of a NYSDEC-approved CMWP.

A comparison of the results from MW-02R with the blind field duplicate indicates that the data coincide.

5.4 Monitoring Deficiencies

No monitoring deficiencies have been identified during the course of this period review.

5.5 Groundwater Monitoring Conclusions and Recommendations

Total VOC concentrations have decreased or remained consistent in MW-07R, EX-MW-11R, MW-04 and EX-MW-12 since the December 2021 and March 2022 sampling events. Total VOC concentrations in MW-02R and MW-09R have increased since the December 2021 and March 2022 sampling events. Substantial fluctuations in the concentrations of the identified constituents have occurred at these well locations in the past. Consequently, contaminant concentrations in these wells should be closely examined during future annual monitoring events to determine if an increasing trend materializes. The continued monitoring of contaminant levels at all well locations is recommended.

In addition, an injection permit was submitted to the USEPA in late November 2022 with the injection event slated for Spring 2023 as part of a NYSDEC-approved CMWP in an effort to mitigate an increase in total VOC concentrations identified proximate these wells during the December 2021 and March 2022 sampling events. A report detailing the construction and subsequent sampling of the new well (MW-13) will be provided to the NSYDEC under separate cover. Furthermore, following completion of the injection event, a Corrective Measures Summary Report will be submitted to the NYSDEC.

It is also recommended that MW-01 be properly decommissioned due to its damaged condition, at the discretion of the established remedial party.

In consideration of the information above, no changes to the SMP or the frequency of PRR submissions are recommended at this time.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Site Soil Cover System was inspected on December 13, 2022, and was observed to be intact and functioning as designed throughout the Site.

Total VOC concentrations have decreased or remained consistent in MW-07R, EX-MW-11R, MW-04 and EX-MW-12 since the December 2021 and March 2022 sampling events. Total VOC concentrations in MW-02R and MW-09R have increased since the December 2021 and March 2022 sampling events. Substantial fluctuations in the concentrations of the identified constituents have occurred at these well locations in the past. Consequently, contaminant concentrations in these wells should be closely examined during future annual monitoring events to determine if an increasing trend materializes. The continued monitoring of contaminant levels at all well locations is recommended. In addition, an injection permit was submitted to the USEPA in late November 2022 with the injection event slated for Spring 2023 as part of a NYSDEC-approved CMWP in an effort to mitigate an increase in total VOC concentrations identified proximate these wells during the December 2021 and March 2022 sampling events.

A report detailing the construction and subsequent sampling of the new well (MW-13) will be provided to the NSYDEC under separate cover. Furthermore, following completion of the injection event, a Corrective Measures Summary Report will be submitted to the NYSDEC.

7.0 LIMITATIONS

The conclusions presented in this report are based on information gathered in accordance with generally acceptable professional consulting principles and practices. All conclusions reflect observable conditions existing at the time of the Site inspection. Information provided by outside sources (individuals, agencies, laboratories, etc.) as cited herein, was used in the assessment of the Site. The accuracy of the conclusions drawn from this assessment is, therefore, dependent upon the accuracy of information provided by these sources. Furthermore, LaBella is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to the performance of services.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations.

Professional judgments expressed herein are based upon the facts currently available with the limits of the existing data, scope of services, budget and schedule. To the extent that more definitive conclusions are desired by the Client than are warranted by the current available facts, it is specifically Labella's' intent that the conclusions and recommendations stated herein will be intended as guidance and not necessarily a firm course of action expect where explicitly stated as such. LaBella makes no warranties, expressed or implied including without limitation, warranties as to merchantability or fitness of a particular purpose. Furthermore, the information provided in this report is not construed as legal advice.

This assessment and report have been completed and prepared on behalf of and for the exclusive use of Chautauqua County. Any reliance on this report by a third party is at such party's sole risk.

8.0 REFERENCES

DER10/Technical Guidance for Site Investigation and Remediation, NYSDEC, May 3, 2010

Environmental Easement for 320 South Roberts Road, Chautauqua County Clerk, June 2011

Environmental Remediation of the Former Roblin Steel Site, NYSDEC Site No. B00173-9, Final Engineering Report, TVGA Consultants, November 2010

Environmental Restoration Record of Decision, Former Roblin Steel Site, Site Number B-00173, NYSDEC Division of Environmental Remediation, March 2005

Excavation Work Plan, Former Roblin Steel Site, TVGA Consultants, November 2010

Master Erosion Control Plan, Former Roblin Steel Site, TVGA Consultants, November 2010

Remedial Action Work Plan, TVGA Consultants, February 2006

Site Investigation/Remedial Alternatives Report, Former Roblin Steel Site, TVGA Consultants, December 2004

Revised Corrective Action Work Plan, Former Roblin Steel Site, KHEOPS Architecture, Engineering and Survey, DPC, April 3, 2015

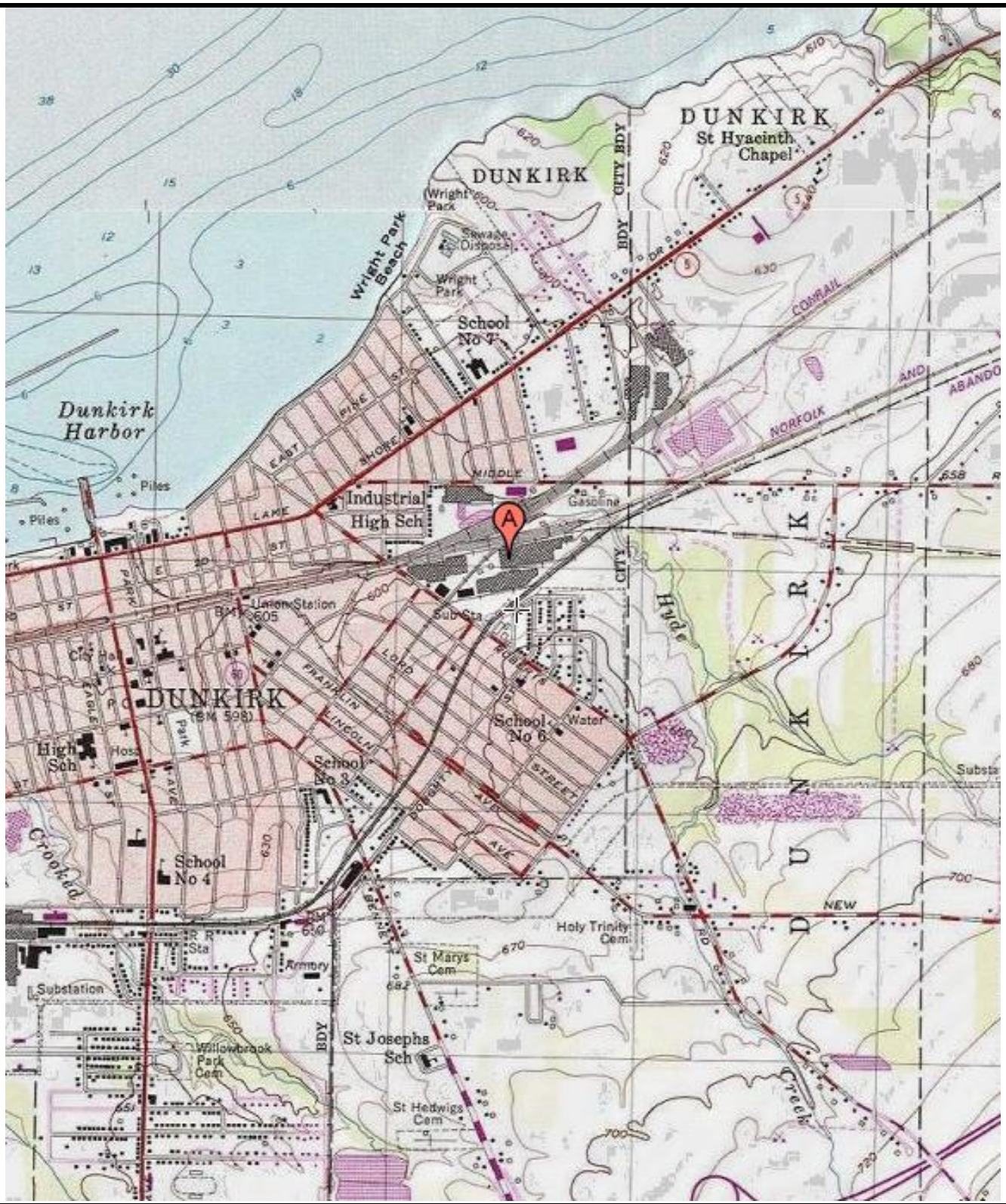
Correction Action Report, Former Roblin Steel Site, LaBella Associates, D.P.C., March 2017

Periodic Review Report, Former Roblin Steel Site, LaBella Associates, D.P.C., January 2021

Site Management Plan, Former Roblin Steel Site, TVGA Consultants, November 2010 (updated by LaBella Associates, D.P.C., June 2021)

Corrective Measures Work Plan, Former Roblin Steel Site, LaBella Associates, D.P.C., August 2022

FIGURES



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Not To Scale

FIGURE 1
SITE LOCATION MAP

Former Roblin Steel Site
320 South Roberts Road
Dunkirk, New York

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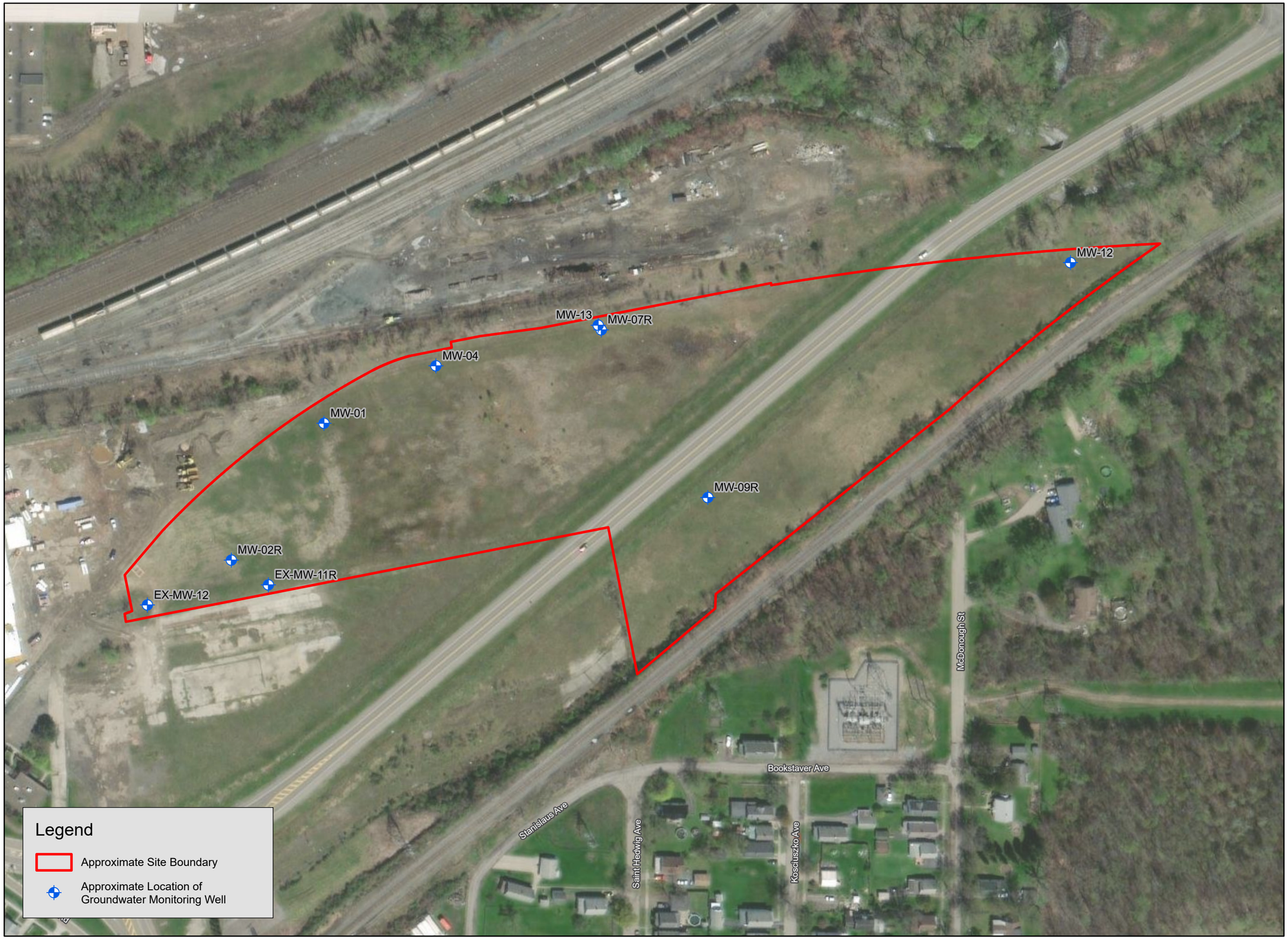

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PROJECT:

FORMER ROBLIN STEEL SITE

DRAWING NAME:

SITE PLAN

PROJECT #/DRAWING #/ DATE

2200014

FIGURE 2

01/04/2023

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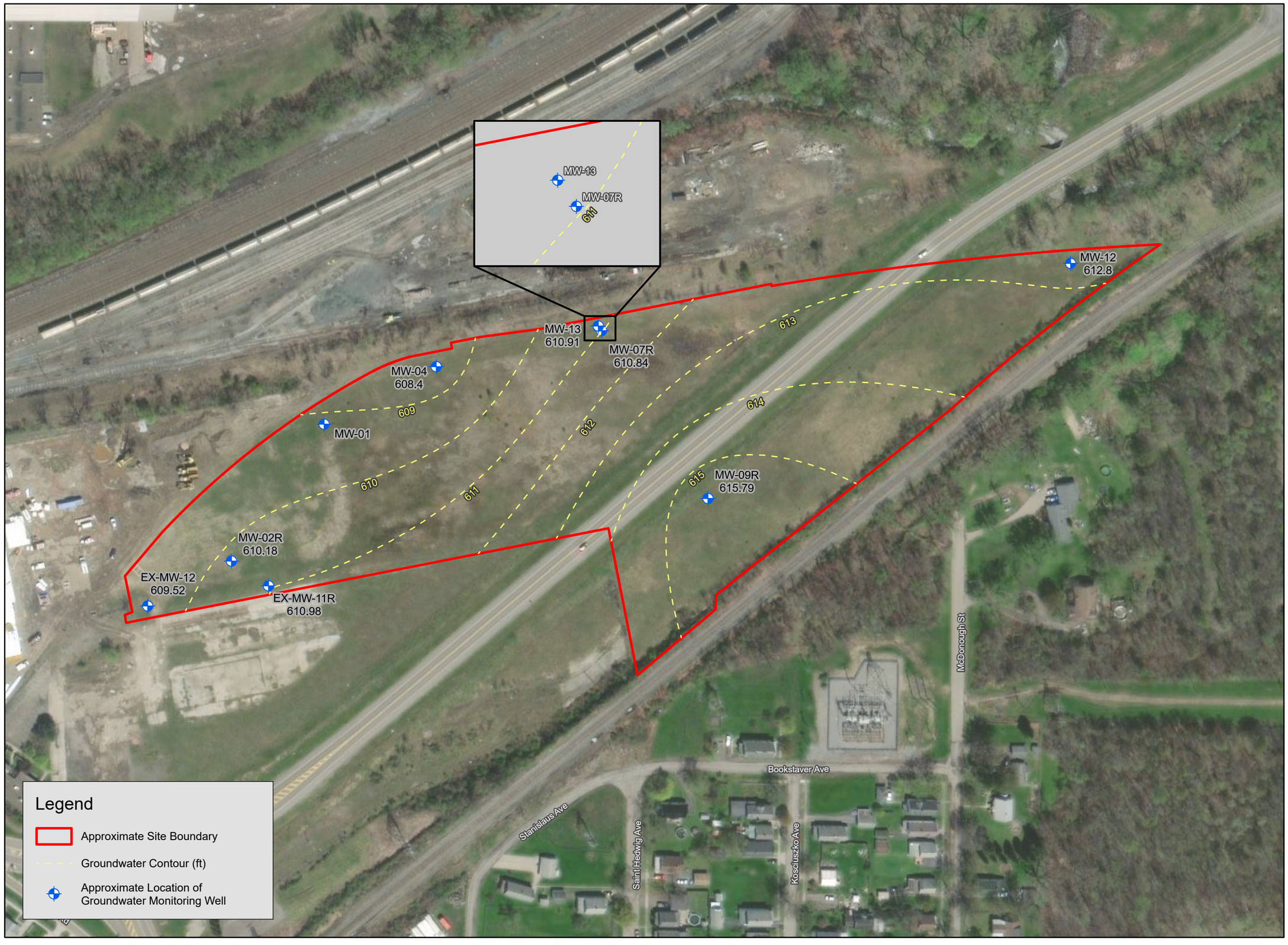

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FORMER ROBLIN STEEL SITE

DRAWING NAME:

GROUNDWATER ELEVATIONS

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FIGURE 3

01/04/2023

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TABLE

Table 1
Former Roblin Steel Site
Summary of Analytical Results
Groundwater Samples

PARAMETER	REGULATORY VALUE	MW-02R													
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21	3/23/22	12/13/22
Volatile Organic Compounds (µg/L)															
1,1-Dichloroethane	5														
1,1-Dichloroethene	5														
1,1-Dichloroethane	5														
cis-1,2-Dichloroethene	5	NA		21.3	10.1	6.27	18	11	13	20	21	10	5.1	27	130
trans-1,2-Dichloroethene	5	NA													
1,2-Dichloroethene (Total)	5	88		21.3											
1,2,4-Trimethylbenzene	5		10												
2-Butanone	50		33.5	129											
Acetone	50			21.7	12.3										
Benzene	1	18	7.92	37.3	18.2	22.7	3.5	3.5	5.6	3.2	1.2	1.6	5.4	6.9	2.5 J
Carbon Disulfide	60														
Chloroethane	5				6.2										
Cyclohexane	NL				32.8	43.3	6.3	5	7.9	3.6	3.4	4.2	4.3	5.5	4.5 J
cis-1,3-Dichloropropene	0.4														
Ethylbenzene	5		9.81	18.9	16.9	22.6	1.9								
Isopropylbenzene	5				2.53	3.12	0.61						1.2	1.3	
Methyl chloride	5														
Methyl Cyclohexane	NL				13.8	22.4	2.3	1.3	2	0.7	0.99	1.2	1.7	0.89 J	3.2 J
Methylene Chloride	5														
n-Propylbenzene	5		2.57												
Tetrachloroethene	5														
Toluene	5	24	7.19	101											
m,p-Xylene	5	NA	7.62	73.2	2.45	9.81									
o-Xylene	5	NA	2.61	37.2		2.10									
Total Xylenes	5	11	10.23	110.4											
Trichloroethene	5	32		3.31			0.25							0.78 J	
Vinyl chloride	2	31		5.34	12.5	9.13	26	42	27	49	37	27	6.1	21	150
Total VOCs	-	**204**	**91**	**580**	**128**	**141**	**59**	**63**	**56**	**77**	**64**	**44**	**23.8**	**42.4**	**290.2**

PARAMETER	REGULATORY VALUE	MW-04													
Collection Date		10/11/02	2/10/09	8/10/10	8/21/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21	3/23/22	12/13/22
Volatile Organic Compounds (µg/L)															
1,1-Dichloroethane	5														
1,1-Dichloroethene	5														
1,1-Dichloroethane	5														
cis-1,2-Dichloroethene	5	NA					2.6	1.2					1.3		
trans-1,2-Dichloroethene	5	NA													
1,2-Dichloroethene (Total)	5														
1,2,4-Trimethylbenzene	5														
2-Butanone	50														
Acetone	50				43.8										
Benzene	1	6													
Carbon Disulfide	60														
Chloroethane	5														
Cyclohexane	NL														
cis-1,3-Dichloropropene	0.4														
Ethylbenzene	5	2													
Isopropylbenzene	5														
Methyl chloride	5														0.51 J
Methyl Cyclohexane	NL														
Methylene Chloride	5														
n-Propylbenzene	5														
Tetrachloroethene	5														
Toluene	5														
m,p-Xylene	5	NA													
o-Xylene	5	NA													
Total Xylenes	5	10													
Trichloroethene	5							1.91							
Vinyl chloride	2						0.49								
Total VOCs	-	**18**	**0**	**0**	**44**	**0**	**3**	**3**	**0**	**0**	**0**	**0**	**1.3**	**0**	**0.51**

PARAMETER	REGULATORY VALUE	MW-07R													
Collection Date		10/11/02	5/4/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21	3/23/22	12/13/22
Volatile Organic Compounds (µg/L)															
1,1-Dichloroethane	5												4		
1,1-Dichloroethene	5	15											15		
1,1-Dichloroethane	5														
cis-1,2-Dichloroethene	5	NA		904	128	584	17	5.9	190	3.2	16	23	3600	3400	400
trans-1,2-Dichloroethene	5	NA											14		
1,2-Dichloroethene (Total)	5	1,500		904											
1,2,4-Trimethylbenzene	5														
2-Butanone	50														
Acetone	50														
Benzene	1	10	65	14			0.34								
Carbon Disulfide	60														
Chloroethane	5														
Cyclohexane	NL						0.72								
cis-1,3-Dichloropropene	0.4		1,500												
Ethylbenzene	5	4													
Isopropylbenzene	5														
Methyl chloride	5														
Methyl Cyclohexane	NL		99				0.76								
Methylene Chloride	5														
n-Propylbenzene	5														
Tetrachloroethene	5		160				0.25								
Toluene	5	12	69	29.7											
m,p-Xylene	5	NA	67	33.3											
o-Xylene	5	NA													
Total Xylenes	5	23	67	33.3											
Trichloroethene	5	56		49.2		55.9		2	3.7				120	110	
Vinyl chloride	2	330	770	402	56.1	205	6.2	3.7	75	3.6	19	12	740	650	140
Total VOCs	-	**1,950**	**2,797**	**2,370**	**184**	**845**	**25**	**12**	**194**	**6.8**	**35**	**35**	**4493**	**4160**	**540**

PARAMETER	REGULATORY VALUE	MW-09R													
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21	3/23/22	12/13/22
Volatile Organic Compounds (µg/L)															
1,1-Dichloroethane	5														
1,1-Dichloroethene	5	3	2.02				2.3		1.2						
1,1-Dichloroethane	5														
cis-1,2-Dichloroethene	5	NA	210	277	217	55.7	1,200	500	410	290	180	180	4	170	180
trans-1,2-Dichloroethene	5	NA	4.48	17.3			2.9		4.2						
1,2-Dichloroethene (Total)	5	380	214	294											
1,2,4-Trimethylbenzene	5		12.9												
2-Butanone	50			305											
Acetone	50			569											
Benzene	1	35	11.5	445	87.7	46.3	0.97		2.2		3.5	5.5	13	15	
Carbon Disulfide	60												0.57 J		
Chloroethane	5														
Cyclohexane	NL				208	155	15		9.4		9.3	8.5	28	26	22
cis-1,3-Dichloropropene	0.4														
Ethylbenzene	5	12	5.66	69.6	33.7	17.3	0.23								
Isopropylbenzene	5						0.28							0.85 J	
Methyl chloride	5														
Methyl Cyclohexane	NL				121	101	13		7.5		7.3	7	9.4	9.9	20
Methylene Chloride	5							4.8							
n-Propylbenzene	5														
Tetrachloroethene	5						4.5								
Toluene	5	74	23.3	581											
m,p-Xylene	5	NA	20.5	239											
o-Xylene	5	NA	11.5	128			0.23								
Total Xylenes	5	75	32	367											
Trichloroethene	5	450	135	585				230	39			3.3		1.9	
Vinyl chloride	2	34	33		991	287	310		93	23	110	99	17	110	430
Total VOCs	-	**1,063**	**716**	**3,877**	**1,658**	**662**	**1,549**	**735**	**567**	**313**	**310**	**303**	**72**	**224**	**652**

PARAMETER	REGULATORY VALUE	EX-MW-11R													
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21	3/23/22	12/13/22
Volatile Organic Compounds (µg/L)															
1,1-Dichloroethane	5														
1,1-Dichloroethene	5						4.6	11	5.8				63		
1,1-Dichloroethane	5														
cis-1,2-Dichloroethene	5	NA	354	5,320	1,950	5,400	990	1,000	1,500	960	950	1,400	7,400	6,200	3,600
trans-1,2-Dichloroethene	5	NA					3.3		4.4				37		
1,2-Dichloroethene (Total)	5	41,000	354	5,320											
1,2,4-Trimethylbenzene	5														
2-Butanone	50														
Acetone	50														
Benzene	1						2.5		3.7						
Carbon Disulfide	60														
Chloroethane	5														
Cyclohexane	NL						16	24	22	19	22	9.6	37	33 J	
cis-1,3-Dichloropropene	0.4														
Ethylbenzene	5						2.4		1.6						
Isopropylbenzene	5						0.68								
Methyl chloride	5														
Methyl Cyclohexane	NL						15	20	23	7.3	11	8	35	38 J	16 J
Methylene Chloride	5							12							
n-Propylbenzene	5														
Tetrachloroethene	5														
Toluene	5						1.7		0.81						
m,p-Xylene	5	NA					0.73								
o-Xylene	5	NA					4.9								
Total Xylenes	5								2.6						
Trichloroethene	5	150,000	168	4,630		4,510	36	91		10			1,400 F1	1500	600
Vinyl chloride	2	9,800	27	638	881	1,110	520	360	950	510	330	430	1,300 F1	750	1,100
Total VOCs	-	**200,800**	**903**	**15,908**	**2,831**	**11,020**	**1,598**	**1,518**	**2,514**	**1,506**	**1,313**	**1,848**	**7,572**	**8,521**	**5,316**

PARAMETER	REGULATORY VALUE	EX-MW-12													
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	12/5/19	12/3/20	12/2/21	3/23/22	12/13/22
Volatile Organic Compounds (µg/L)															
cis-1,2-Dichloroethene	5	NA		7.6			0.73								
trans-1,2-Dichloroethene	5	NA													
1,2-Dichloroethene (Total)	5	150		7.6											
2-Butanone	50			31.3											
2-Hexanone	50			5.23											
Acetone	50			73.8											
Benzene	1	1		24.0	1.9	2.14	0.47								
Carbon Disulfide	60												1.1		
Ethylbenzene	5	1		18.5											
Toluene	5			48.7											
m,p-Xylene	5	NA		74.7											
o-Xylene	5	NA		40.4											
Total Xylenes	5			115.1											
Trichloroethene	5			8.96											
Vinyl chloride	2	200		27.2											
Total VOCs	-	**352**	**0**	**483**	**1.9**	**2.14**	**1**	**0**	**0**	**0**	**0**	**0**	**1.1**	**0.0**	**0.0**

Notes:

Regulatory values are derived from NYS Ambient Water Quality Standards TOGS 1.1.1 (Source of Drinking Water, groundwater).

(-) = No regulatory value is associated with this compound.

Shaded values represent exceedances of the regulatory value.

µg/L = micrograms per Liter (equivalent to parts per billion (ppb)).

Only compounds with one or more detections are shown.

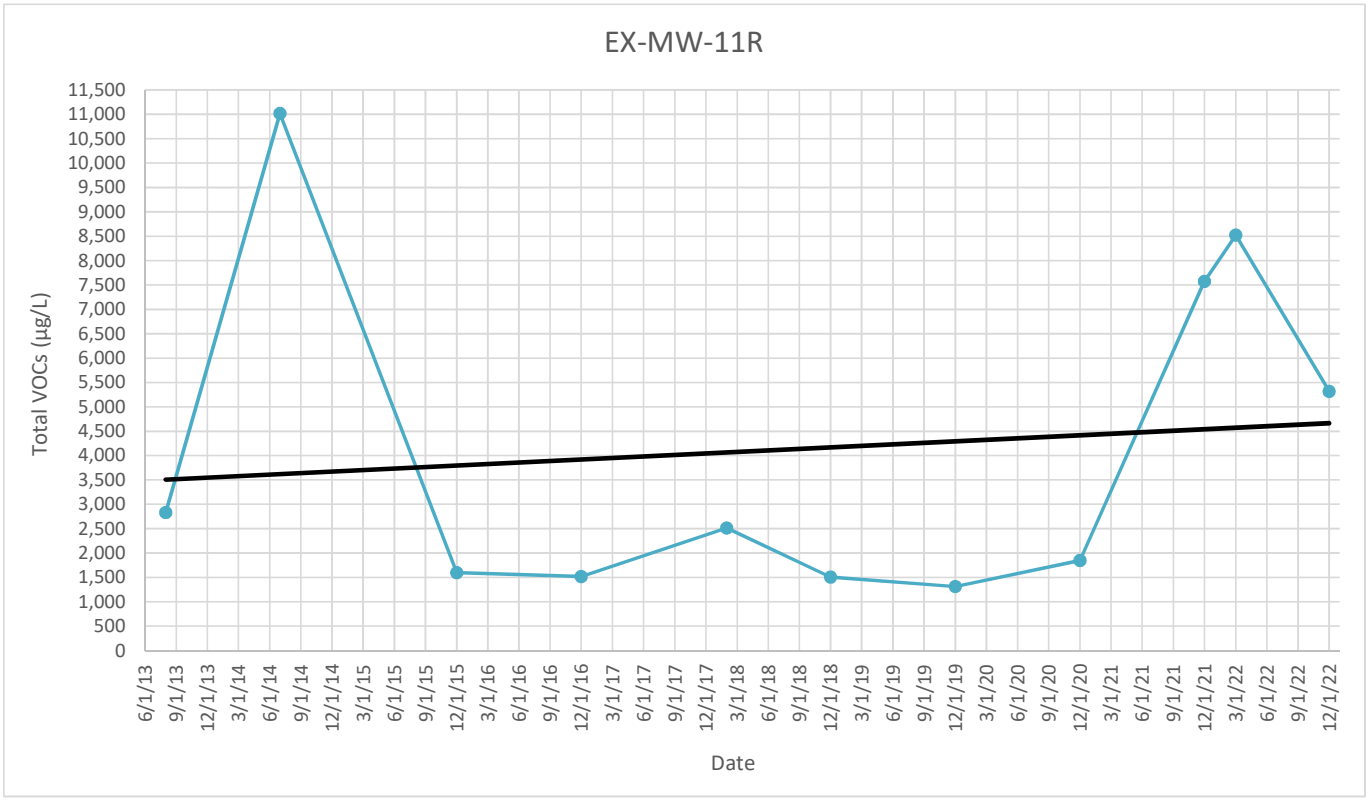
J = Reported concentration is an estimate.

F1 = MS and/or MSD recovery exceeds control limits.

Blank spaces indicate that the analyte was not detected.

"NL" = Regulatory value not listed for parameter

"NA" = parameter was not analyzed


EX-MW-11R
Total VOCs (µg/L)
11,500
11,000
10,500
10,000
9,500
9,000
8,500
8,000
7,500
7,000
6,500
6,000
5,500
5,000
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
6/1/13
9/1/13
12/1/13
3/1/14
6/1/14
9/1/14
12/1/14
3/1/15
6/1/15
9/1/15
12/1/15
3/1/16
6/1/16
9/1/16
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12/1/20
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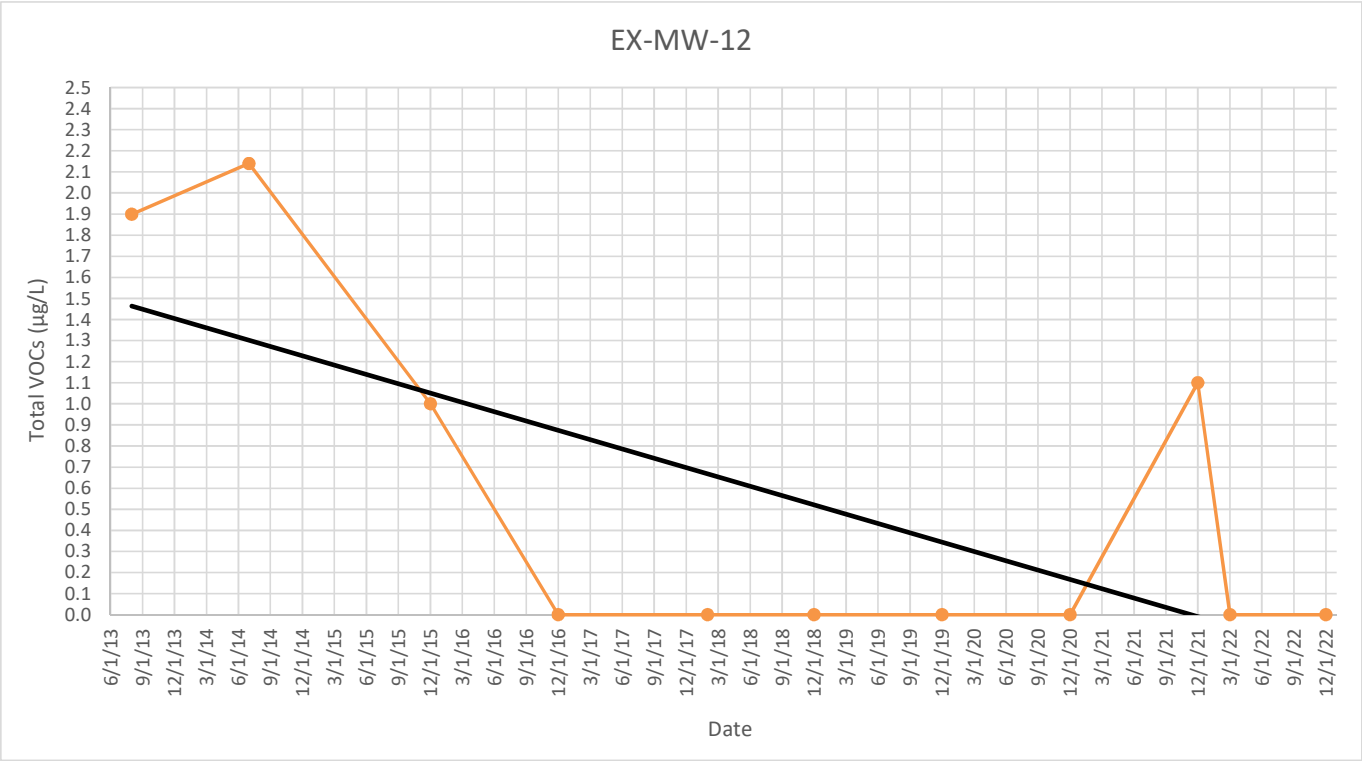
9/1/21
12/1/21
3/1/22
6/1/22
9/1/22
12/1/22
Date


EX-MW-12
Total VOCs (µg/L)
2.5
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
6/1/13
9/1/13
12/1/13
3/1/14
6/1/14
9/1/14
12/1/14
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12/1/20
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9/1/21
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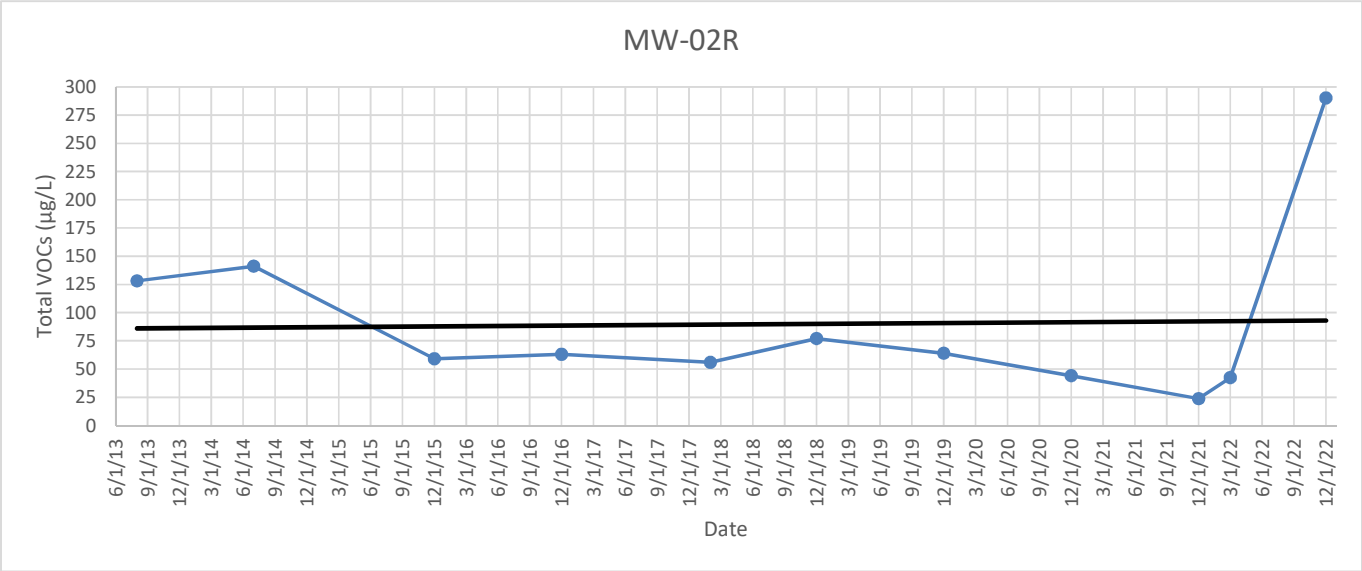
3/1/22
6/1/22
9/1/22
12/1/22
Date


MW-02R
Total VOCs (µg/L)
300
275
250
225
200
175
150
125
100
75
50
25
0
6/1/13
9/1/13
12/1/13
3/1/14
6/1/14
9/1/14
12/1/14
3/1/15
6/1/15
9/1/15
12/1/15
3/1/16
6/1/16
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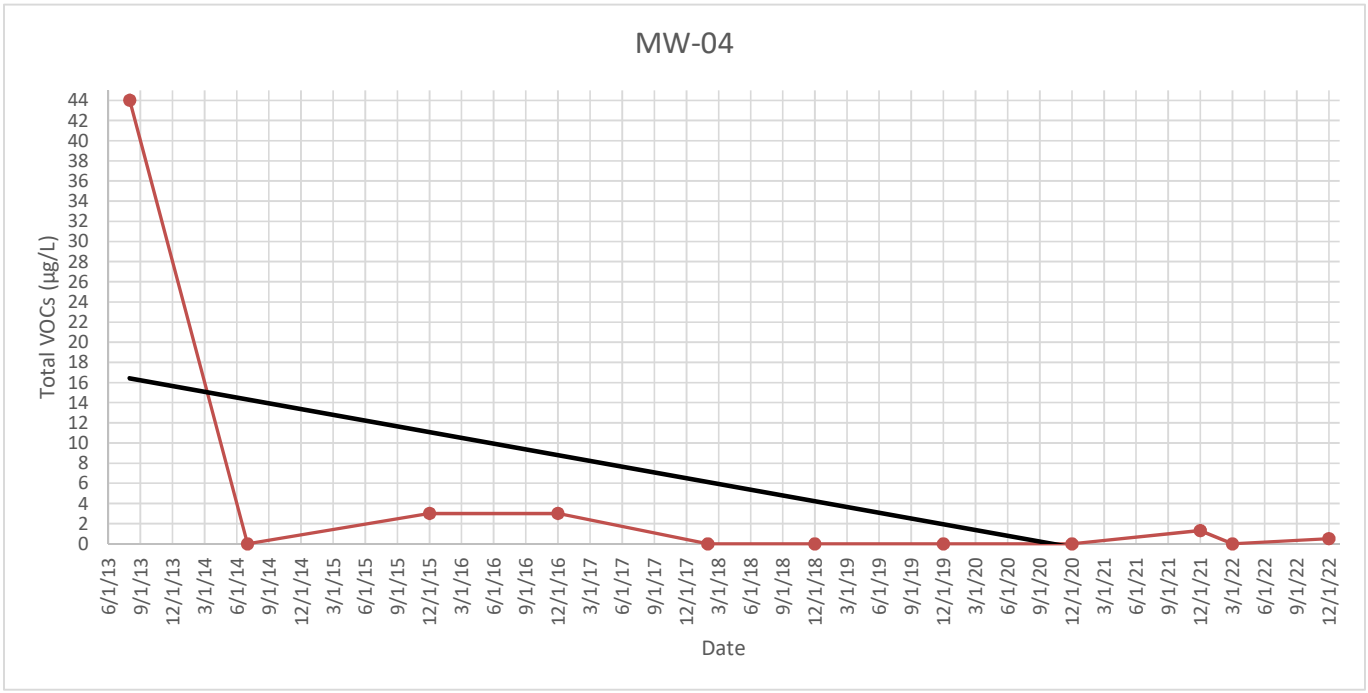
12/1/20
3/1/21
6/1/21
9/1/21
12/1/21
3/1/22
6/1/22
9/1/22
12/1/22
Date


MW-04
Total VOCs (µg/L)
44
42
40
38
36
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
6/1/13
9/1/13
12/1/13
3/1/14
6/1/14
9/1/14
12/1/14
3/1/15
6/1/15
9/1/15
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12/1/20
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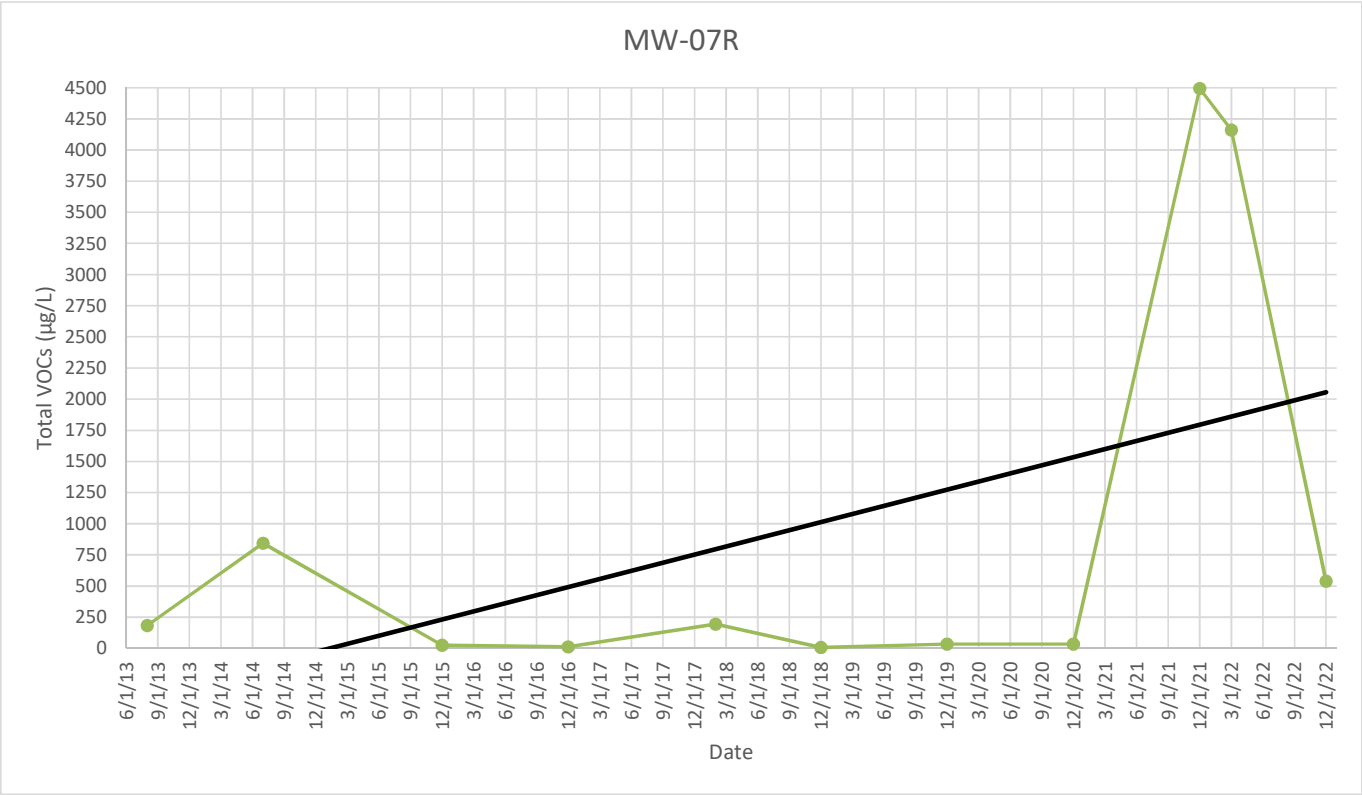
3/1/22
6/1/22
9/1/22
12/1/22
Date


MW-07R
Total VOCs (µg/L)
4500
4250
4000
3750
3500
3250
3000
2750
2500
2250
2000
1750
1500
1250
1000
750
500
250
0
6/1/13
9/1/13
12/1/13
3/1/14
6/1/14
9/1/14
12/1/14
3/1/15
6/1/15
9/1/15
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12/1/20
3/1/21
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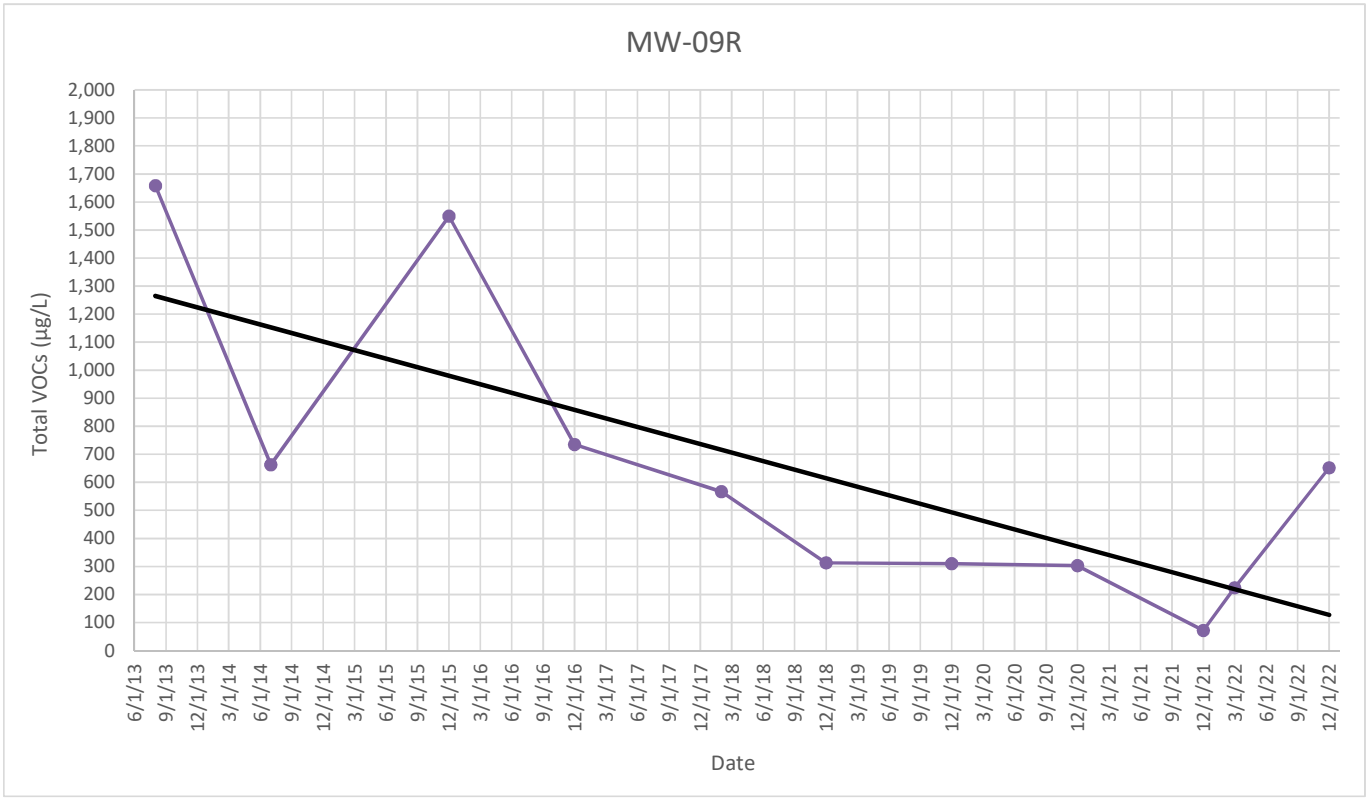
9/1/22
12/1/22
Date


MW-09R
Total VOCs (µg/L)
2,000
1,900
1,800
1,700
1,600
1,500
1,400
1,300
1,200
1,100
1,000
900
800
700
600
500
400
300
200
100
0
6/1/13
9/1/13
12/1/13
3/1/14
6/1/14
9/1/14
12/1/14
3/1/15
6/1/15
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12/1/20
3/1/21
6/1/21
9/1/21
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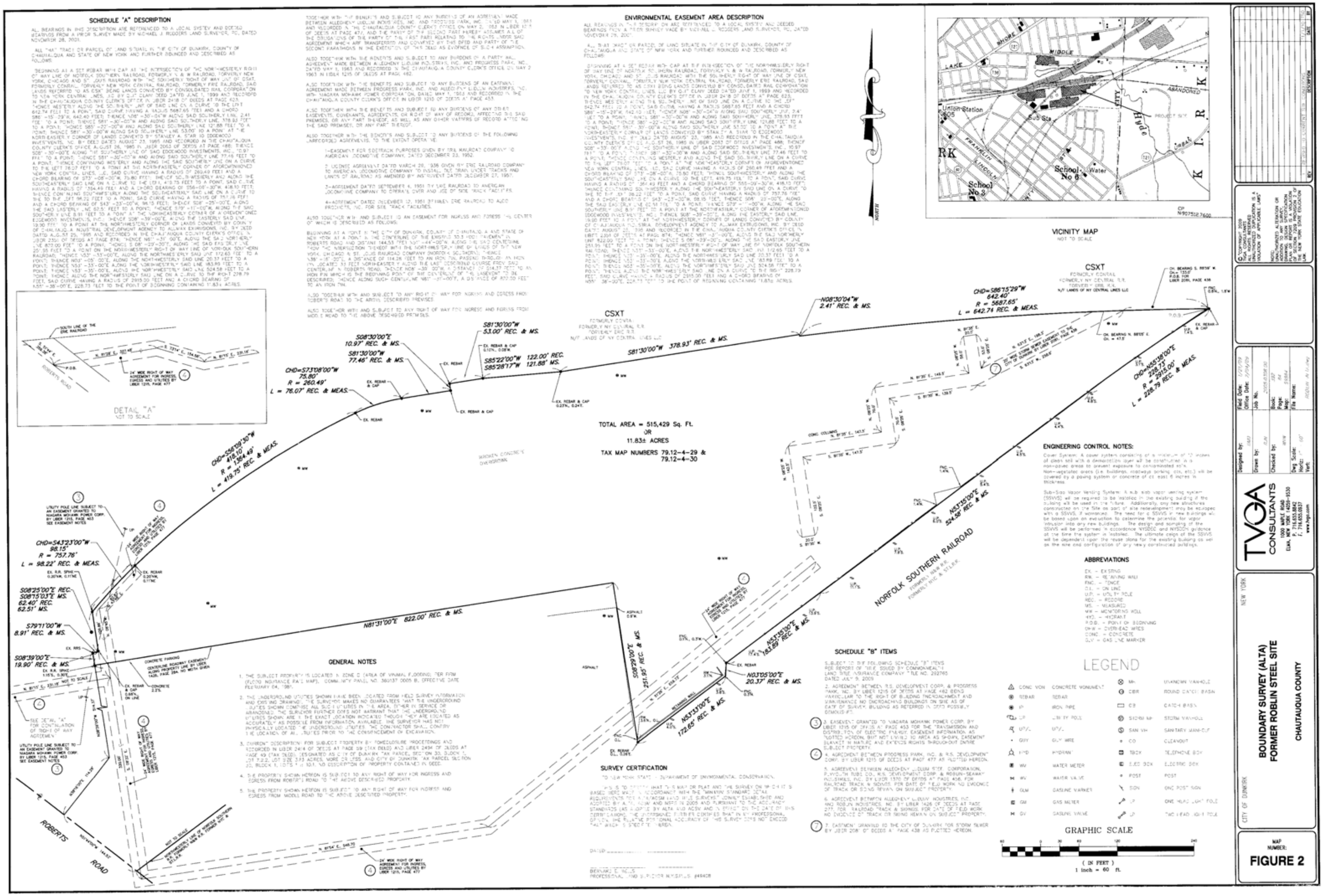
3/1/22
6/1/22
9/1/22
12/1/22
Date

APPENDIX 1

Boundary Survey-Former Roblin Steel Site


SCHEDULE "A" DESCRIPTION
ENVIRONMENTAL EASEMENT AREA DESCRIPTION
VICINITY MAP
NOT TO SCALE
CSXT
NORFOLK SOUTHERN RAILROAD
TOTAL AREA = 515,429 Sq. Ft.
OR
11.83± ACRES
TAX MAP NUMBERS 79.12-4-29 &
79.12-4-30
N81°31'00"E 822.00' REC. & MS.
S81°30'00"W 378.93' REC. & MS.
N53°35'00"E 524.58' REC. & MS.
N53°35'00"E 163.69' REC. & MS.
N53°53'00"E 172.65' REC. & MS.
N03°05'00"E 20.37' REC. & MS.
S08°29'00"E 251.95' REC. & MS.
N08°30'04"W 2.41' REC. & MS.
CHD=S86°15'29"W 642.40' R = 5687.65' L = 642.74 REC. & MEAS.
CHD=N55°38'00"E 228.73' R = 2915.00' L = 228.79 REC. & MEAS.
CHD=S56°09'30"W 418.10' R = 1364.49' L = 419.75 REC. & MEAS.
CHD=S73°08'00"W 75.80' R = 260.49' L = 76.07' REC. & MEAS.
CHD=S43°23'00"W 98.15' R = 757.76' L = 98.22' REC. & MEAS.
S08°30'00"E 10.97' REC. & MS.
S81°30'00"W 77.46' REC. & MS.
S81°30'00"W 53.00' REC. & MS.
S85°22'00"W 122.00' REC.
S85°28'17"W 121.88' MS.
S08°25'00"E REC. S08°15'03"E MS. 62.40' REC. 62.51' MS.
S79°11'00"W 8.91' REC. & MS.
S08°39'00"E 19.90' REC. & MS.
ROBERTS ROAD
DETAIL "A"
NOT TO SCALE
GENERAL NOTES
SURVEY CERTIFICATION
SCHEDULE "B" ITEMS
ENGINEERING CONTROL NOTES:
ABBREVIATIONS
LEGEND
GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.
TVGA CONSULTANTS
1000 MAPLE ROAD
ELMA, NEW YORK 14059-9530
P. 716.655.8842
F. 716.655.0937
www.tvga.com
CITY OF DUNKIRK
NEW YORK
BOUNDARY SURVEY (ALTA)
FORMER ROBLIN STEEL SITE
CHAUTAUQUA COUNTY
MAP NUMBER:
FIGURE 2

LaBella
Powered by partnership.

APPENDIX 2

Cover Inspection Form

COVER INSPECTION FORM
Former Roblin Steel Site

Property Name: Former Roblin Steel Site Inspection Date: 12/13/22

Property Address: 320 South Roberts Road

City: Dunkirk State: NY Zip Code: 14048

Property ID: (Tax Assessment Map)

Section: 79.12 Block: 4 Lot(s): 29 and 30

Total Acreage: ~12 acres

Weather (during inspection): Temperature: 28°F Conditions: clear

SIGNATURE: Andrew Koons

The findings of this inspection were discussed with appropriate personnel, corrective actions were identified and implementation was mutually agreed upon:

Inspector: Andrew Koons Date: 12/13/22

Next Scheduled Inspection Date: 12/2023

SECURITY AND ACCESS

	Yes	No	
1. Access controlled by perimeter fencing?	-----	X	
Are there sections of the fence material damaged or missing?	-----	-----	
Are the fence or gate post foundations structurally sound?	-----	-----	
2. "No Trespass" signs posted in appropriate languages?	-----	X	
Are the signs securely attached to the fencing or posts?	-----	-----	
Are there sufficient signs; are the signs adequately spaced around the perimeter of the property?	-----	-----	
3. Is there evidence of trespassing?	-----	X	
Is there evidence of illegal dumping?	X	-----	tires on side of road

COVER & VEGETATION

4. Final cover in acceptable condition?	X	-----	
Is there evidence of sloughing, erosion, ponding or settlement?	-----	X	
Is there evidence of unintended traffic; rutting?	-----	X	
Is there evidence of distressed vegetation/turf?	-----	X	

	Yes	No
5. Final cover sufficiently covers soil/fill material?	X	____
Are there cracks visible in the soil or pavement?	_____	X
Is there evidence of erosion in the stormwater channels or swales?	_____	X
Is there damage to the synthetic erosion control fabric in the channels or swales?	_____	X

ACTIVITY ON SITE

6. Any activity on site that mechanically disturbed soil cover?	_____	X

ADDITIONAL FACILITY INFORMATION

Development on or near the site? (Specify size and type: e.g., residential, 40 acres, well and septic)

COMMENTS

Item #

ATTACHMENTS

1. Site Sketch
2. Photographs
3. Laboratory Report (s)

APPENDIX 3

Photographs

View of south roadside ditch

View of north roadside ditch

View north across the Site

View south across the Site

View of newly installed MW-13

View of damaged MW-01

APPENDIX 4

New Well Installation Documents

Test 001

Downwind

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/06/2022
Instrument S/N	8530120611	Start Time	10:26:53
		Stop Date	12/06/2022
		Stop Time	14:11:53
		Total Time	0:03:45:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/06/2022	10:41:53	-0.034
2	12/06/2022	10:56:53	-0.034
3	12/06/2022	11:11:53	-0.034
4	12/06/2022	11:26:53	-0.034
5	12/06/2022	11:41:53	-0.034
6	12/06/2022	11:56:53	-0.025
7	12/06/2022	12:11:53	-0.034
8	12/06/2022	12:26:53	-0.035
9	12/06/2022	12:41:53	-0.034
10	12/06/2022	12:56:53	-0.030
11	12/06/2022	13:11:53	-0.029
12	12/06/2022	13:26:53	-0.033
13	12/06/2022	13:41:53	-0.033
14	12/06/2022	13:56:53	-0.034
15	12/06/2022	14:11:53	-0.034

Test 002

Upwind

Instrument		Data Properties	
Model	DustTrak II	Start Date	12/06/2022
Instrument S/N	8530141504	Start Time	10:22:49
		Stop Date	12/06/2022
		Stop Time	14:22:49
		Total Time	0:04:00:00
		Logging Interval	900 seconds

Test Data			
Data Point	**Date**	**Time**	**AEROSOL mg/m^3**
1	12/06/2022	10:37:49	0.013
2	12/06/2022	10:52:49	0.012
3	12/06/2022	11:07:49	0.013
4	12/06/2022	11:22:49	0.013
5	12/06/2022	11:37:49	0.013
6	12/06/2022	11:52:49	0.015
7	12/06/2022	12:07:49	0.012
8	12/06/2022	12:22:49	0.013
9	12/06/2022	12:37:49	0.013
10	12/06/2022	12:52:49	0.013
11	12/06/2022	13:07:49	0.014
12	12/06/2022	13:22:49	0.014
13	12/06/2022	13:37:49	0.067
14	12/06/2022	13:52:49	0.015
15	12/06/2022	14:07:49	0.014
16	12/06/2022	14:22:49	0.014

LaBella
Powered by partnership.

300 PEARL STREET, BUFFALO, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Former Roblin Steel Site Monitoring Well Installation

BORING: MW-13
SHEET 1 of 1
JOB: 2210039.05
CHKD BY:
DATE: 12/6/2022

CONTRACTOR:	LaBella Env. LLC	BORING LOCATION:		TIME:	___ TO ___
DRILLER:	C. Stone	GROUND SURFACE ELEVATION	612.9	DATUM:	AMSL
LABELLA REPRESENTATIVE:	A. Koons	START DATE:		WEATHER:	

TYPE OF DRILL RIG: D-50
AUGER SIZE AND TYPE: 4 1/4"
OVERBURDEN SAMPLING METHOD: NA
DRIVE SAMPLER TYPE: NA
INSIDE DIAMETER:
OTHER:

DEPTH (FEET BGS)	SAMPLE: SAMPLE RECOVERY (INCHES)	SAMPLE: SAMPLE NO. AND DEPTH	SAMPLE: STRATA CHANGE (FEET BGS)	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0				0-0.2'': Topsoil		Soil classifications based on drill cuttings
				0.2-1.0': Brown SAND and GRAVEL, with little silt (CLEAN FILL)	0 ppm	
1				1.0-10.0': Brown Silty Clay with lilttle sand and gravel	0 ppm	
2						
3						
4						
5						
6						
7						
8						
9						
10				10.0- 12.0': Gray Cleyey SILT with some sand and gravel	0 ppm	
11						
12				12.0-18.5': Weathered SHALE	0.5 ppm	
13						
14						
15						
16						
17						
18						
19				Boring Terminated at 18.5'		
20				Auger Resfusal at 18.5'		

WATER LEVEL DATA			DEPTH (FT)			NOTES:
DATE	TIME	ELAPSED TIME	BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED	MW-13 installed at this location (17.5')

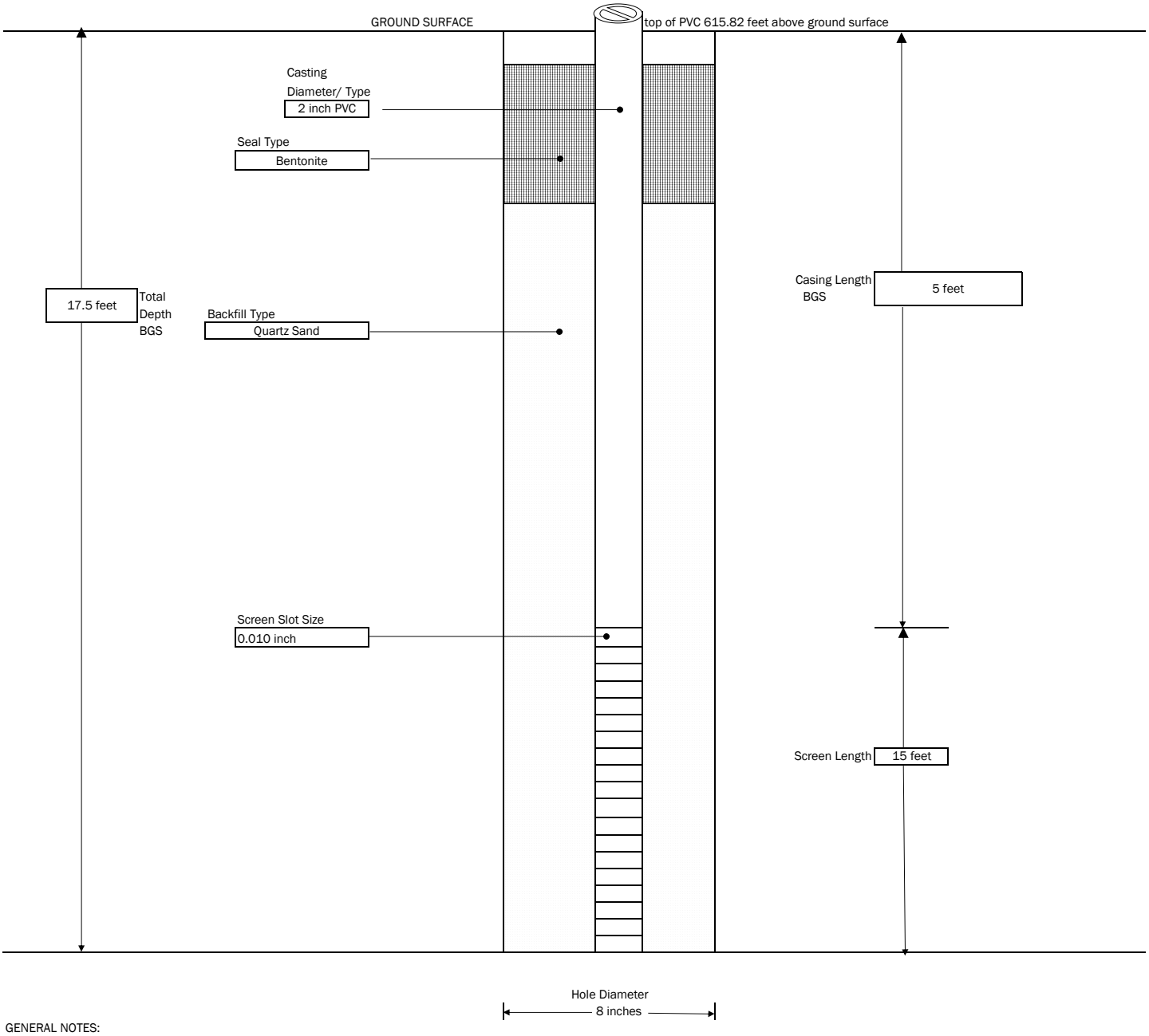
GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.
2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

BGS = Below Ground Surface	and = 35 - 50%	C = Coarse	R = Rounded
NA = Not Applicable	some = 20 - 35%	M = Medium	A = Angular
	little = 10 - 20%	F = Fine	SR = Subrounded
	trace = 1 - 10%	VF = Very Fine	SA = Subangular

LaBella Powered by partnership. 300 PEARL STREET, BUFFALO, NEW YORK ENVIRONMENTAL ENGINEERING CONSULTANTS	**PROJECT** Former Roblin Steel Site Monitoring Well Installation	**MONITORING WELL :** MW-13 **BORING LOCATION :** MW-13 **SHEET** 1 OF 1 **JOB #** 2210039.05

CONTRACTOR:	LaBella Environmental LLC			TYPE OF DRILL RIG:	D-50
DRILLER:	C. Stone	START TIME:	END TIME:	AUGER SIZE AND TYPE:	4 1/4"
LABELLA REPRESENTATIVE:	A. Koons	GROUND SURFACE ELEVATION: 612.90	DATUM: AMSL	OVERBURDEN SAMPLING METHOD:	NA



GENERAL NOTES:

1) NOT TO SCALE
2) DEPTHS ARE APPROXIMATE

AMERICAN RECYCLERS COMPANY
Waste Profile Report (WPR)

177 Wales Avenue Tonawanda, New York 14151 *Phone (716) 695-6720 Fax (716) 695-0161*	**APPROVAL NUMBER:** A-21300L **EXPIRATION DATE:** 12/21/2024 **HANDLING CODE:** L

Generator: Chautauqua County DPW (Falconer Shop EPA ID #: NYD981875180

Address: 454 North Works St Contact: Drew E. Rodgers, PE

City Falconer STATE: NY ZIP: 14733 Phone: 716-661-8410 Fax: 716-661-8451

Waste Name: Drill Cuttings	Shipping Name: Non RCRA Non DOT Regulated
Generating Process: IDW - Drill Cuttings	
	Rate of Generation: Once
	Container Type: 55 Gal Steel 1A2

Composition of Waste	%	%
Drill Cuttings	100 - 100	

Phase	%
Solids	
Liquid	
Sludge	
Debris	

Is the material RCRA listed or Characteristicly Hazardous?	☐ YES	☒ NO
Does the material contain Medical or Biological Wastes?	☐ YES	☒ NO
Does the material contain etiological waste?	☐ YES	☒ NO
Does the material contain, or has it come in contact with PCB's?	☐ YES	☒ NO
Is the material radioactive?	☐ YES	☒ NO
Does the material contain septic or domestic sewage?	☐ YES	☒ NO
Is the material Non-Hazardous as defined by RCRA Title 40?	☒ YES	☐ NO

Check all below which apply:

Material is to be shipped and recycled as Universal Waste	☐ YES	☒ NO
Material is to be shipped and recycled under 6 NYCRR Part 371.1(g)(1)(ii)(b) *(ie Computer Equipment & monitors)*	☐ YES	☒ NO
Material is being shipped for disposal/recycle via facility transfer/consolidation permit	☒ YES	☐ NO
Material is a Labpack and all contents are CERTIFIED as Non-RCRA	☐ YES	☒ NO
List all Lab Pack Container Numbers: *(Attach packing slips to profile)*		

I certify that the above submitted information (including any attachments) is true, accurate and complete to the best of my knowledge and ability and that all known and suspected hazards have been disclosed. All material offered herein is deemed Non-RCRA.

Signer Title Deputy Director

Company Chautauqua County DPF

Signed: [signature] **Print:** Drew Rodgers **Date:** 12/21/22

ARC Presonel Reviewed and Approved by:

Approved by: **Print:** Tom Martin **Date:**

APPENDIX 5

Site Management Periodic Review Report – Institutional and Engineering Controls Certification 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. **B00173**

Site Name Former Roblin Steel Site (Dunkirk)

Site Address: 320 South Roberts Road Zip Code: 14048
City/Town: Dunkirk
County: Chautauqua
Site Acreage: 11.830

Reporting Period: December 15, 2021 to December 15, 2022

	YES	NO
1. Is the information above correct?	X	
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?		X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		X
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?		X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	
7. Are all ICs in place and functioning as designed?	X	

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

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

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. B00173 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
79.12-4-29	Chautauqua County	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

The Site Management Plan includes:
- An Engineering and Institutional Controls Plan. Engineering controls include a one-foot thick soil cover system, asphalt cover system (Progress Drive), and provisions for evaluating the potential for soil vapor intrusion to any new buildings constructed and the installation of soil vapor mitigation systems if warranted. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. commercial/industrial purposes).
- An Excavation Work Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- A Site Monitoring Plan that includes: provisions for groundwater monitoring; and,
- A Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

79.12-4-30	Chautauqua County	Ground Water Use Restriction Soil Management Plan Monitoring Plan Site Management Plan IC/EC Plan Landuse Restriction

The Site Management Plan includes:
- An Engineering and Institutional Controls Plan. Engineering controls include a one-foot thick soil cover system, asphalt cover system (Progress Drive) and provisions for evaluating the potential for soil vapor intrusion to any new buildings constructed and the installation of soil vapor mitigation systems if warranted. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. commercial/industrial purposes).
- An Excavation Work Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- A Site Monitoring Plan that includes: provisions for groundwater monitoring; and,
- A Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
79.12-4-29	Cover System Vapor Mitigation
79.12-4-30	Vapor Mitigation Cover System

Box 5

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 compete.

YES	NO
X	☐

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
X	☐

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. B00173

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 Mark Geise (print name) at 320 S. Roberts Rd, Dunkirk, NY (print business address),

am certifying as Owner (Owner or Remedial Party)

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

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

1/13/23
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I Daniel Noll (print name) at LaBella Associates, D.P.C.
300 State Street, Rochester, NY (print business address),

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

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date
		1/13/2023

APPENDIX 6

Groundwater Sampling Logs

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-02R
Site Location: Robin
Job No. **2200014**
Sample Date: 12/13/22
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1025	1030	1035	1040	1045		
Depth of well	23.2						
Depth to water	6.78						
Well diameter	2						
Well volume (gallons)	2.6						
Purging device							
Containment device							
Purge time							
Gallons purged	Ø	2.6	5.2	7.8	—		
Sample device							
Field Parameters							
Temperature	12.1	12.5	12.6	12.5	12.3		
pH measurement	7.28	7.07	7.23	7.12	6.95		
Conductivity (mS/cm)	.903	.948	.960	1.028	1.038		
ORP/Eh (mV)	-44.7	-31.9	-25.9	-39.9	-58.2		
Turbidity (NTUs)	66.15	214.19	229.31	104.56	21.48		

WEATHER:

NOTES/FIELD OBSERVATIONS:

DUP collected @ this location

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-04
Site Location: Robin
Job No. **2200014**
Sample Date: 12/13/22
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1135	1140	1147	1150	1155		
Depth of well	16.28						
Depth to water	3.666						
Well diameter	2"						
Well volume (gallons)	2.0						
Purging device							
Containment device							
Purge time							
Gallons purged	0	2.0	4.0	6.0	-		
Sample device							
Field Parameters							
Temperature	10.9	11.9	12.1	12.2	12.0		
pH measurement	6.97	6.96	6.94	6.98	7.02		
Conductivity (mS/cm)	0.772	1.050	1.066	1.078	1.058		
ORP/Eh (mV)	-33.6	-27.3	-63.3	-88.1	-98.1		
Turbidity (NTUs)	148.99	121.92	29.89	200.55	199.65		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-07R
Job No. **2200014**

Site Location: Baldwin
Sample Date: 12/13/22
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1215	1220	1225	1230	1235		
Depth of well	17.5						
Depth to water	3.66						
Well diameter	2						
Well volume (gallons)	2.2						
Purging device							
Containment device							
Purge time							
Gallons purged	0	2.2	4.4	6.6	—		
Sample device							
Field Parameters							
Temperature	12.3	12.4	12.2	12.2	12.2		
pH measurement	7.53	7.40	7.42	7.41	7.42		
Conductivity (mS/cm)	1.641	1.700	1.706	1.699	1.272		
ORP/Eh (mV)	-60.5	-64.8	-46.2	-48.6	-52.0		
Turbidity (NTUs)	89.81	75.67	12.31	19.18	49.17		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Site Location: Robbin
Sample Date: 12/13/22
LaBella Representative:

Well I.D. MW-9R
Job No. **2200014**

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	0930	0935	0940	0945	0950		
Depth of well	16.6						
Depth to water	4.0						
Well diameter	2.0"						
Well volume (gallons)	2.0						
Purging device							
Containment device							
Purge time							
Gallons purged	0	2.0	4.0	6.0	—		
Sample device							
Field Parameters							
Temperature	10.9	10.7	10.6	10.9	11.0		
pH measurement	7.07	7.23	7.22	7.21	7.12		
Conductivity (mS/cm)	.845	0.877	0.896	0.913	.920		
ORP/Eh (mV)	-28.7	-26.4	-46.7	-71.9	-79.2		
Turbidity (NTUs)	32.96	146.37	66.28	115.04	274.16		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. EX-MW-11R
Site Location: Robin
Job No. **2200014**
Sample Date: 12/13/22
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1000	1005	1010	1015	1020		
Depth of well	18.6						
Depth to water	5.92						
Well diameter	2"						
Well volume (gallons)	2.0						
Purging device							
Containment device							
Purge time							
Gallons purged	0	2.0	4.0	6.0	—		
Sample device							
Field Parameters							
Temperature	12.2	11.8	11.7	12.2	12.4		
pH measurement	7.21	7.32	7.30	7.38	7.40		
Conductivity (mS/cm)	1.016	.671	.604	.412	.552		
ORP/Eh (mV)	-63.7	-83.4	-85.7	-105.7	-109.2		
Turbidity (NTUs)	121.36	191.87	121.40	160.92	20.07		

WEATHER:

NOTES/FIELD OBSERVATIONS:
- Turbidity potentially off

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. Ex-mw12
Site Location: Robin
Job No. **2200014**
Sample Date: 12/13/22
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1100	1106	1112	1118	1125		
Depth of well	22.8						
Depth to water	5.89						
Well diameter	2						
Well volume (gallons)	2.7						
Purging device							
Containment device							
Purge time							
Gallons purged	0	2.7	5.4	8.1	~		
Sample device							
Field Parameters							
Temperature	12.1	11.8	11.1	11.1	10.5		
pH measurement	7.01	6.69	6.63	6.60	6.52		
Conductivity (mS/cm)	1.673	1.287	1.272	1.282	1.291		
ORP/Eh (mV)	-61.6	-54.7	-60.5	-59.1	-51.1		
Turbidity (NTUs)	143.25	123.16	45.76	10.57	25.36		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-12
Site Location: Robin
Job No. **2200014**
Sample Date: 12/13/22
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time							
Depth of well							
Depth to water	6.34						
Well diameter							
Well volume (gallons)							
Purging device							
Containment device							
Purge time							
Gallons purged							
Sample device							
Field Parameters							
Temperature							
pH measurement							
Conductivity (mS/cm)							
ORP/Eh (mV)							
Turbidity (NTUs)							

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

APPENDIX 7

Laboratory Analytical Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chris Kibler
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

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JOB DESCRIPTION

Alumax & Roblin Periodic Review Reports

JOB NUMBER

480-204719-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

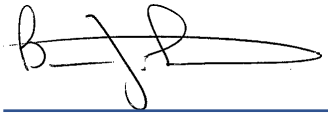
See page two for job notes and contact information.

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing Northeast, LLC Buffalo and its client. All questions regarding this report should be directed to the Eurofins Environment Testing Northeast, LLC Buffalo Project Manager or designee who has signed this report.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

Authorization



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Authorized for release by
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

Table of Contents

Definitions/Glossary

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 480-204719-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative
480-204719-1

Comments
No additional comments.

Receipt
The samples were received on 12/13/2022 2:00 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4º C.

Receipt Exceptions

MW-13 listed on COCs twice. Only included in login once.

AL-2 (480-204719-1), AL-1 (480-204719-2), AL-7 (480-204719-3), MW-9R (480-204719-4), EX-MW-11R (480-204719-5), MW-02R (480-204719-6), EX-MW-12 (480-204719-7), MW-04 (480-204719-8), MW-07R (480-204719-9), MW-13 (480-204719-10), DUP (480-204719-11) and TRIP BLANK (480-204719-12)

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-653342 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: AL-2 (480-204719-1), AL-1 (480-204719-2), AL-7 (480-204719-3), MW-9R (480-204719-4), EX-MW-11R (480-204719-5), MW-02R (480-204719-6), EX-MW-12 (480-204719-7), MW-04 (480-204719-8), MW-07R (480-204719-9), DUP (480-204719-11) and TRIP BLANK (480-204719-12).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: AL-1 (480-204719-2), MW-9R (480-204719-4), EX-MW-11R (480-204719-5), MW-02R (480-204719-6), MW-07R (480-204719-9) and DUP (480-204719-11). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-2 — Lab Sample ID: 480-204719-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.2		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	1.3		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.25	J	1.0	0.16	ug/L	1		8260C	Total/NA

Client Sample ID: AL-1 — Lab Sample ID: 480-204719-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	25		10	4.1	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	450		10	8.1	ug/L	10		8260C	Total/NA
Cyclohexane	21		10	1.8	ug/L	10		8260C	Total/NA
Methylcyclohexane	10		10	1.6	ug/L	10		8260C	Total/NA
Vinyl chloride	200		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: AL-7 — Lab Sample ID: 480-204719-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.99	J	1.0	0.35	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	5.3		1.0	0.81	ug/L	1		8260C	Total/NA
Vinyl chloride	1.4		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-9R — Lab Sample ID: 480-204719-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	180		10	8.1	ug/L	10		8260C	Total/NA
Cyclohexane	22		10	1.8	ug/L	10		8260C	Total/NA
Methylcyclohexane	20		10	1.6	ug/L	10		8260C	Total/NA
Vinyl chloride	430		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: EX-MW-11R — Lab Sample ID: 480-204719-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3600		100	81	ug/L	100		8260C	Total/NA
Methylcyclohexane	16	J	100	16	ug/L	100		8260C	Total/NA
Trichloroethene	600		100	46	ug/L	100		8260C	Total/NA
Vinyl chloride	1100		100	90	ug/L	100		8260C	Total/NA

Client Sample ID: MW-02R — Lab Sample ID: 480-204719-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.5	J	5.0	2.1	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	130		5.0	4.1	ug/L	5		8260C	Total/NA
Cyclohexane	4.5	J	5.0	0.90	ug/L	5		8260C	Total/NA
Methylcyclohexane	3.2	J	5.0	0.80	ug/L	5		8260C	Total/NA
Vinyl chloride	150		5.0	4.5	ug/L	5		8260C	Total/NA

Client Sample ID: EX-MW-12 — Lab Sample ID: 480-204719-7

No Detections.

Client Sample ID: MW-04 — Lab Sample ID: 480-204719-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.51	J	1.0	0.35	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

Detection Summary

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-07R
Lab Sample ID: 480-204719-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	400		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	140		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: DUP
Lab Sample ID: 480-204719-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.5	J	5.0	2.1	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	150		5.0	4.1	ug/L	5		8260C	Total/NA
Cyclohexane	5.2		5.0	0.90	ug/L	5		8260C	Total/NA
Methylcyclohexane	4.1	J	5.0	0.80	ug/L	5		8260C	Total/NA
Vinyl chloride	180		5.0	4.5	ug/L	5		8260C	Total/NA

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-204719-12

No Detections.

This Detection Summary does not include radiochemical test results.

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-2
Lab Sample ID: 480-204719-1
Date Collected: 12/13/22 08:25
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/14/22 13:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/14/22 13:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/14/22 13:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/14/22 13:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/14/22 13:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/14/22 13:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/14/22 13:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/14/22 13:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/14/22 13:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/14/22 13:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/14/22 13:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/14/22 13:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/14/22 13:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/14/22 13:59	1
2-Hexanone	ND		5.0	1.2	ug/L			12/14/22 13:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/14/22 13:59	1
Acetone	ND		10	3.0	ug/L			12/14/22 13:59	1
Benzene	**6.2**		1.0	0.41	ug/L			12/14/22 13:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/14/22 13:59	1
Bromoform	ND		1.0	0.26	ug/L			12/14/22 13:59	1
Bromomethane	ND		1.0	0.69	ug/L			12/14/22 13:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/14/22 13:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/14/22 13:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/14/22 13:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/14/22 13:59	1
Chloroethane	ND		1.0	0.32	ug/L			12/14/22 13:59	1
Chloroform	ND		1.0	0.34	ug/L			12/14/22 13:59	1
Chloromethane	ND		1.0	0.35	ug/L			12/14/22 13:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/14/22 13:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/14/22 13:59	1
Cyclohexane	**1.3**		1.0	0.18	ug/L			12/14/22 13:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/14/22 13:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/14/22 13:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/14/22 13:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/14/22 13:59	1
Methyl acetate	ND		2.5	1.3	ug/L			12/14/22 13:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/14/22 13:59	1
Methylcyclohexane	**0.25**	**J**	1.0	0.16	ug/L			12/14/22 13:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/14/22 13:59	1
Styrene	ND		1.0	0.73	ug/L			12/14/22 13:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/14/22 13:59	1
Toluene	ND		1.0	0.51	ug/L			12/14/22 13:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/14/22 13:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/14/22 13:59	1
Trichloroethene	ND		1.0	0.46	ug/L			12/14/22 13:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/14/22 13:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/14/22 13:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/14/22 13:59	1

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-2
Lab Sample ID: 480-204719-1
Date Collected: 12/13/22 08:25
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		12/14/22 13:59	1
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/14/22 13:59	1
4-Bromofluorobenzene (Surr)	91		73 - 120		12/14/22 13:59	1
Dibromofluoromethane (Surr)	97		75 - 123		12/14/22 13:59	1

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-1
Lab Sample ID: 480-204719-2
Date Collected: 12/13/22 08:50
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			12/14/22 14:21	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			12/14/22 14:21	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			12/14/22 14:21	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			12/14/22 14:21	10
1,1-Dichloroethane	ND		10	3.8	ug/L			12/14/22 14:21	10
1,1-Dichloroethene	ND		10	2.9	ug/L			12/14/22 14:21	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			12/14/22 14:21	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			12/14/22 14:21	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			12/14/22 14:21	10
1,2-Dichloroethane	ND		10	2.1	ug/L			12/14/22 14:21	10
1,2-Dichloropropane	ND		10	7.2	ug/L			12/14/22 14:21	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			12/14/22 14:21	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			12/14/22 14:21	10
2-Butanone (MEK)	ND		100	13	ug/L			12/14/22 14:21	10
2-Hexanone	ND		50	12	ug/L			12/14/22 14:21	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			12/14/22 14:21	10
Acetone	ND		100	30	ug/L			12/14/22 14:21	10
Benzene	**25**		10	4.1	ug/L			12/14/22 14:21	10
Bromodichloromethane	ND		10	3.9	ug/L			12/14/22 14:21	10
Bromoform	ND		10	2.6	ug/L			12/14/22 14:21	10
Bromomethane	ND		10	6.9	ug/L			12/14/22 14:21	10
Carbon disulfide	ND		10	1.9	ug/L			12/14/22 14:21	10
Carbon tetrachloride	ND		10	2.7	ug/L			12/14/22 14:21	10
Chlorobenzene	ND		10	7.5	ug/L			12/14/22 14:21	10
Dibromochloromethane	ND		10	3.2	ug/L			12/14/22 14:21	10
Chloroethane	ND		10	3.2	ug/L			12/14/22 14:21	10
Chloroform	ND		10	3.4	ug/L			12/14/22 14:21	10
Chloromethane	ND		10	3.5	ug/L			12/14/22 14:21	10
cis-1,2-Dichloroethene	**450**		10	8.1	ug/L			12/14/22 14:21	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			12/14/22 14:21	10
Cyclohexane	**21**		10	1.8	ug/L			12/14/22 14:21	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			12/14/22 14:21	10
Ethylbenzene	ND		10	7.4	ug/L			12/14/22 14:21	10
1,2-Dibromoethane	ND		10	7.3	ug/L			12/14/22 14:21	10
Isopropylbenzene	ND		10	7.9	ug/L			12/14/22 14:21	10
Methyl acetate	ND		25	13	ug/L			12/14/22 14:21	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			12/14/22 14:21	10
Methylcyclohexane	**10**		10	1.6	ug/L			12/14/22 14:21	10
Methylene Chloride	ND		10	4.4	ug/L			12/14/22 14:21	10
Styrene	ND		10	7.3	ug/L			12/14/22 14:21	10
Tetrachloroethene	ND		10	3.6	ug/L			12/14/22 14:21	10
Toluene	ND		10	5.1	ug/L			12/14/22 14:21	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			12/14/22 14:21	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			12/14/22 14:21	10
Trichloroethene	ND		10	4.6	ug/L			12/14/22 14:21	10
Trichlorofluoromethane	ND		10	8.8	ug/L			12/14/22 14:21	10
Vinyl chloride	**200**		10	9.0	ug/L			12/14/22 14:21	10
Xylenes, Total	ND		20	6.6	ug/L			12/14/22 14:21	10

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-1
Lab Sample ID: 480-204719-2
Date Collected: 12/13/22 08:50
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		12/14/22 14:21	10
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/14/22 14:21	10
4-Bromofluorobenzene (Surr)	89		73 - 120		12/14/22 14:21	10
Dibromofluoromethane (Surr)	96		75 - 123		12/14/22 14:21	10

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-7
Lab Sample ID: 480-204719-3
Date Collected: 12/13/22 09:16
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/14/22 14:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/14/22 14:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/14/22 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/14/22 14:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/14/22 14:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/14/22 14:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/14/22 14:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/14/22 14:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/14/22 14:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/14/22 14:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/14/22 14:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/14/22 14:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/14/22 14:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/14/22 14:43	1
2-Hexanone	ND		5.0	1.2	ug/L			12/14/22 14:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/14/22 14:43	1
Acetone	ND		10	3.0	ug/L			12/14/22 14:43	1
Benzene	ND		1.0	0.41	ug/L			12/14/22 14:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/14/22 14:43	1
Bromoform	ND		1.0	0.26	ug/L			12/14/22 14:43	1
Bromomethane	ND		1.0	0.69	ug/L			12/14/22 14:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/14/22 14:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/14/22 14:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/14/22 14:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/14/22 14:43	1
Chloroethane	ND		1.0	0.32	ug/L			12/14/22 14:43	1
Chloroform	ND		1.0	0.34	ug/L			12/14/22 14:43	1
Chloromethane	**0.99**	**J**	1.0	0.35	ug/L			12/14/22 14:43	1
cis-1,2-Dichloroethene	**5.3**		1.0	0.81	ug/L			12/14/22 14:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/14/22 14:43	1
Cyclohexane	ND		1.0	0.18	ug/L			12/14/22 14:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/14/22 14:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/14/22 14:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/14/22 14:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/14/22 14:43	1
Methyl acetate	ND		2.5	1.3	ug/L			12/14/22 14:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/14/22 14:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/14/22 14:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/14/22 14:43	1
Styrene	ND		1.0	0.73	ug/L			12/14/22 14:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/14/22 14:43	1
Toluene	ND		1.0	0.51	ug/L			12/14/22 14:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/14/22 14:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/14/22 14:43	1
Trichloroethene	ND		1.0	0.46	ug/L			12/14/22 14:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/14/22 14:43	1
Vinyl chloride	**1.4**		1.0	0.90	ug/L			12/14/22 14:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/14/22 14:43	1

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-7
Lab Sample ID: 480-204719-3
Date Collected: 12/13/22 09:16
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		12/14/22 14:43	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		12/14/22 14:43	1
4-Bromofluorobenzene (Surr)	89		73 - 120		12/14/22 14:43	1
Dibromofluoromethane (Surr)	95		75 - 123		12/14/22 14:43	1

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-9R
Lab Sample ID: 480-204719-4
Date Collected: 12/13/22 09:50
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			12/14/22 15:05	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			12/14/22 15:05	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			12/14/22 15:05	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			12/14/22 15:05	10
1,1-Dichloroethane	ND		10	3.8	ug/L			12/14/22 15:05	10
1,1-Dichloroethene	ND		10	2.9	ug/L			12/14/22 15:05	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			12/14/22 15:05	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			12/14/22 15:05	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			12/14/22 15:05	10
1,2-Dichloroethane	ND		10	2.1	ug/L			12/14/22 15:05	10
1,2-Dichloropropane	ND		10	7.2	ug/L			12/14/22 15:05	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			12/14/22 15:05	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			12/14/22 15:05	10
2-Butanone (MEK)	ND		100	13	ug/L			12/14/22 15:05	10
2-Hexanone	ND		50	12	ug/L			12/14/22 15:05	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			12/14/22 15:05	10
Acetone	ND		100	30	ug/L			12/14/22 15:05	10
Benzene	ND		10	4.1	ug/L			12/14/22 15:05	10
Bromodichloromethane	ND		10	3.9	ug/L			12/14/22 15:05	10
Bromoform	ND		10	2.6	ug/L			12/14/22 15:05	10
Bromomethane	ND		10	6.9	ug/L			12/14/22 15:05	10
Carbon disulfide	ND		10	1.9	ug/L			12/14/22 15:05	10
Carbon tetrachloride	ND		10	2.7	ug/L			12/14/22 15:05	10
Chlorobenzene	ND		10	7.5	ug/L			12/14/22 15:05	10
Dibromochloromethane	ND		10	3.2	ug/L			12/14/22 15:05	10
Chloroethane	ND		10	3.2	ug/L			12/14/22 15:05	10
Chloroform	ND		10	3.4	ug/L			12/14/22 15:05	10
Chloromethane	ND		10	3.5	ug/L			12/14/22 15:05	10
cis-1,2-Dichloroethene	**180**		10	8.1	ug/L			12/14/22 15:05	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			12/14/22 15:05	10
Cyclohexane	**22**		10	1.8	ug/L			12/14/22 15:05	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			12/14/22 15:05	10
Ethylbenzene	ND		10	7.4	ug/L			12/14/22 15:05	10
1,2-Dibromoethane	ND		10	7.3	ug/L			12/14/22 15:05	10
Isopropylbenzene	ND		10	7.9	ug/L			12/14/22 15:05	10
Methyl acetate	ND		25	13	ug/L			12/14/22 15:05	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			12/14/22 15:05	10
Methylcyclohexane	**20**		10	1.6	ug/L			12/14/22 15:05	10
Methylene Chloride	ND		10	4.4	ug/L			12/14/22 15:05	10
Styrene	ND		10	7.3	ug/L			12/14/22 15:05	10
Tetrachloroethene	ND		10	3.6	ug/L			12/14/22 15:05	10
Toluene	ND		10	5.1	ug/L			12/14/22 15:05	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			12/14/22 15:05	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			12/14/22 15:05	10
Trichloroethene	ND		10	4.6	ug/L			12/14/22 15:05	10
Trichlorofluoromethane	ND		10	8.8	ug/L			12/14/22 15:05	10
Vinyl chloride	**430**		10	9.0	ug/L			12/14/22 15:05	10
Xylenes, Total	ND		20	6.6	ug/L			12/14/22 15:05	10

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-9R
Lab Sample ID: 480-204719-4
Date Collected: 12/13/22 09:50
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		12/14/22 15:05	10
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/14/22 15:05	10
4-Bromofluorobenzene (Surr)	89		73 - 120		12/14/22 15:05	10
Dibromofluoromethane (Surr)	97		75 - 123		12/14/22 15:05	10

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-11R
Lab Sample ID: 480-204719-5
Date Collected: 12/13/22 10:20
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			12/14/22 15:27	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			12/14/22 15:27	100
1,1,2-Trichloroethane	ND		100	23	ug/L			12/14/22 15:27	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			12/14/22 15:27	100
1,1-Dichloroethane	ND		100	38	ug/L			12/14/22 15:27	100
1,1-Dichloroethene	ND		100	29	ug/L			12/14/22 15:27	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			12/14/22 15:27	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			12/14/22 15:27	100
1,2-Dichlorobenzene	ND		100	79	ug/L			12/14/22 15:27	100
1,2-Dichloroethane	ND		100	21	ug/L			12/14/22 15:27	100
1,2-Dichloropropane	ND		100	72	ug/L			12/14/22 15:27	100
1,3-Dichlorobenzene	ND		100	78	ug/L			12/14/22 15:27	100
1,4-Dichlorobenzene	ND		100	84	ug/L			12/14/22 15:27	100
2-Butanone (MEK)	ND		1000	130	ug/L			12/14/22 15:27	100
2-Hexanone	ND		500	120	ug/L			12/14/22 15:27	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			12/14/22 15:27	100
Acetone	ND		1000	300	ug/L			12/14/22 15:27	100
Benzene	ND		100	41	ug/L			12/14/22 15:27	100
Bromodichloromethane	ND		100	39	ug/L			12/14/22 15:27	100
Bromoform	ND		100	26	ug/L			12/14/22 15:27	100
Bromomethane	ND		100	69	ug/L			12/14/22 15:27	100
Carbon disulfide	ND		100	19	ug/L			12/14/22 15:27	100
Carbon tetrachloride	ND		100	27	ug/L			12/14/22 15:27	100
Chlorobenzene	ND		100	75	ug/L			12/14/22 15:27	100
Dibromochloromethane	ND		100	32	ug/L			12/14/22 15:27	100
Chloroethane	ND		100	32	ug/L			12/14/22 15:27	100
Chloroform	ND		100	34	ug/L			12/14/22 15:27	100
Chloromethane	ND		100	35	ug/L			12/14/22 15:27	100
cis-1,2-Dichloroethene	**3600**		100	81	ug/L			12/14/22 15:27	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			12/14/22 15:27	100
Cyclohexane	ND		100	18	ug/L			12/14/22 15:27	100
Dichlorodifluoromethane	ND		100	68	ug/L			12/14/22 15:27	100
Ethylbenzene	ND		100	74	ug/L			12/14/22 15:27	100
1,2-Dibromoethane	ND		100	73	ug/L			12/14/22 15:27	100
Isopropylbenzene	ND		100	79	ug/L			12/14/22 15:27	100
Methyl acetate	ND		250	130	ug/L			12/14/22 15:27	100
Methyl tert-butyl ether	ND		100	16	ug/L			12/14/22 15:27	100
Methylcyclohexane	**16**	**J**	100	16	ug/L			12/14/22 15:27	100
Methylene Chloride	ND		100	44	ug/L			12/14/22 15:27	100
Styrene	ND		100	73	ug/L			12/14/22 15:27	100
Tetrachloroethene	ND		100	36	ug/L			12/14/22 15:27	100
Toluene	ND		100	51	ug/L			12/14/22 15:27	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			12/14/22 15:27	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			12/14/22 15:27	100
Trichloroethene	**600**		100	46	ug/L			12/14/22 15:27	100
Trichlorofluoromethane	ND		100	88	ug/L			12/14/22 15:27	100
Vinyl chloride	**1100**		100	90	ug/L			12/14/22 15:27	100
Xylenes, Total	ND		200	66	ug/L			12/14/22 15:27	100

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-11R
Lab Sample ID: 480-204719-5
Date Collected: 12/13/22 10:20
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		12/14/22 15:27	100
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/14/22 15:27	100
4-Bromofluorobenzene (Surr)	88		73 - 120		12/14/22 15:27	100
Dibromofluoromethane (Surr)	97		75 - 123		12/14/22 15:27	100

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-02R
Lab Sample ID: 480-204719-6
Date Collected: 12/13/22 10:45
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			12/14/22 15:49	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			12/14/22 15:49	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			12/14/22 15:49	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			12/14/22 15:49	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			12/14/22 15:49	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			12/14/22 15:49	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			12/14/22 15:49	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			12/14/22 15:49	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			12/14/22 15:49	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			12/14/22 15:49	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			12/14/22 15:49	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			12/14/22 15:49	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			12/14/22 15:49	5
2-Butanone (MEK)	ND		50	6.6	ug/L			12/14/22 15:49	5
2-Hexanone	ND		25	6.2	ug/L			12/14/22 15:49	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			12/14/22 15:49	5
Acetone	ND		50	15	ug/L			12/14/22 15:49	5
Benzene	**2.5**	**J**	5.0	2.1	ug/L			12/14/22 15:49	5
Bromodichloromethane	ND		5.0	2.0	ug/L			12/14/22 15:49	5
Bromoform	ND		5.0	1.3	ug/L			12/14/22 15:49	5
Bromomethane	ND		5.0	3.5	ug/L			12/14/22 15:49	5
Carbon disulfide	ND		5.0	0.95	ug/L			12/14/22 15:49	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			12/14/22 15:49	5
Chlorobenzene	ND		5.0	3.8	ug/L			12/14/22 15:49	5
Dibromochloromethane	ND		5.0	1.6	ug/L			12/14/22 15:49	5
Chloroethane	ND		5.0	1.6	ug/L			12/14/22 15:49	5
Chloroform	ND		5.0	1.7	ug/L			12/14/22 15:49	5
Chloromethane	ND		5.0	1.8	ug/L			12/14/22 15:49	5
cis-1,2-Dichloroethene	**130**		5.0	4.1	ug/L			12/14/22 15:49	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			12/14/22 15:49	5
Cyclohexane	**4.5**	**J**	5.0	0.90	ug/L			12/14/22 15:49	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			12/14/22 15:49	5
Ethylbenzene	ND		5.0	3.7	ug/L			12/14/22 15:49	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			12/14/22 15:49	5
Isopropylbenzene	ND		5.0	4.0	ug/L			12/14/22 15:49	5
Methyl acetate	ND		13	6.5	ug/L			12/14/22 15:49	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			12/14/22 15:49	5
Methylcyclohexane	**3.2**	**J**	5.0	0.80	ug/L			12/14/22 15:49	5
Methylene Chloride	ND		5.0	2.2	ug/L			12/14/22 15:49	5
Styrene	ND		5.0	3.7	ug/L			12/14/22 15:49	5
Tetrachloroethene	ND		5.0	1.8	ug/L			12/14/22 15:49	5
Toluene	ND		5.0	2.6	ug/L			12/14/22 15:49	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			12/14/22 15:49	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			12/14/22 15:49	5
Trichloroethene	ND		5.0	2.3	ug/L			12/14/22 15:49	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			12/14/22 15:49	5
Vinyl chloride	**150**		5.0	4.5	ug/L			12/14/22 15:49	5
Xylenes, Total	ND		10	3.3	ug/L			12/14/22 15:49	5

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-02R
Lab Sample ID: 480-204719-6
Date Collected: 12/13/22 10:45
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		12/14/22 15:49	5
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/14/22 15:49	5
4-Bromofluorobenzene (Surr)	90		73 - 120		12/14/22 15:49	5
Dibromofluoromethane (Surr)	99		75 - 123		12/14/22 15:49	5

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-12
Lab Sample ID: 480-204719-7
Date Collected: 12/13/22 11:25
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/14/22 16:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/14/22 16:11	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/14/22 16:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/14/22 16:11	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/14/22 16:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/14/22 16:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/14/22 16:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/14/22 16:11	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/14/22 16:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/14/22 16:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/14/22 16:11	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/14/22 16:11	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/14/22 16:11	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/14/22 16:11	1
2-Hexanone	ND		5.0	1.2	ug/L			12/14/22 16:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/14/22 16:11	1
Acetone	ND		10	3.0	ug/L			12/14/22 16:11	1
Benzene	ND		1.0	0.41	ug/L			12/14/22 16:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/14/22 16:11	1
Bromoform	ND		1.0	0.26	ug/L			12/14/22 16:11	1
Bromomethane	ND		1.0	0.69	ug/L			12/14/22 16:11	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/14/22 16:11	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/14/22 16:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/14/22 16:11	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/14/22 16:11	1
Chloroethane	ND		1.0	0.32	ug/L			12/14/22 16:11	1
Chloroform	ND		1.0	0.34	ug/L			12/14/22 16:11	1
Chloromethane	ND		1.0	0.35	ug/L			12/14/22 16:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/14/22 16:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/14/22 16:11	1
Cyclohexane	ND		1.0	0.18	ug/L			12/14/22 16:11	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/14/22 16:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/14/22 16:11	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/14/22 16:11	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/14/22 16:11	1
Methyl acetate	ND		2.5	1.3	ug/L			12/14/22 16:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/14/22 16:11	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/14/22 16:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/14/22 16:11	1
Styrene	ND		1.0	0.73	ug/L			12/14/22 16:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/14/22 16:11	1
Toluene	ND		1.0	0.51	ug/L			12/14/22 16:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/14/22 16:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/14/22 16:11	1
Trichloroethene	ND		1.0	0.46	ug/L			12/14/22 16:11	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/14/22 16:11	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/14/22 16:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/14/22 16:11	1

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: EX-MW-12
Lab Sample ID: 480-204719-7
Date Collected: 12/13/22 11:25
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		80 - 120		12/14/22 16:11	1
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/14/22 16:11	1
4-Bromofluorobenzene (Surr)	87		73 - 120		12/14/22 16:11	1
Dibromofluoromethane (Surr)	100		75 - 123		12/14/22 16:11	1

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-04
Lab Sample ID: 480-204719-8
Date Collected: 12/13/22 11:55
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/14/22 16:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/14/22 16:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/14/22 16:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/14/22 16:33	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/14/22 16:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/14/22 16:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/14/22 16:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/14/22 16:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/14/22 16:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/14/22 16:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/14/22 16:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/14/22 16:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/14/22 16:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/14/22 16:33	1
2-Hexanone	ND		5.0	1.2	ug/L			12/14/22 16:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/14/22 16:33	1
Acetone	ND		10	3.0	ug/L			12/14/22 16:33	1
Benzene	ND		1.0	0.41	ug/L			12/14/22 16:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/14/22 16:33	1
Bromoform	ND		1.0	0.26	ug/L			12/14/22 16:33	1
Bromomethane	ND		1.0	0.69	ug/L			12/14/22 16:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/14/22 16:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/14/22 16:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/14/22 16:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/14/22 16:33	1
Chloroethane	ND		1.0	0.32	ug/L			12/14/22 16:33	1
Chloroform	ND		1.0	0.34	ug/L			12/14/22 16:33	1
Chloromethane	**0.51**	**J**	1.0	0.35	ug/L			12/14/22 16:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/14/22 16:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/14/22 16:33	1
Cyclohexane	ND		1.0	0.18	ug/L			12/14/22 16:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/14/22 16:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/14/22 16:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/14/22 16:33	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/14/22 16:33	1
Methyl acetate	ND		2.5	1.3	ug/L			12/14/22 16:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/14/22 16:33	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/14/22 16:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/14/22 16:33	1
Styrene	ND		1.0	0.73	ug/L			12/14/22 16:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/14/22 16:33	1
Toluene	ND		1.0	0.51	ug/L			12/14/22 16:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/14/22 16:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/14/22 16:33	1
Trichloroethene	ND		1.0	0.46	ug/L			12/14/22 16:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/14/22 16:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/14/22 16:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/14/22 16:33	1

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-04
Lab Sample ID: 480-204719-8
Date Collected: 12/13/22 11:55
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		12/14/22 16:33	1
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/14/22 16:33	1
4-Bromofluorobenzene (Surr)	87		73 - 120		12/14/22 16:33	1
Dibromofluoromethane (Surr)	98		75 - 123		12/14/22 16:33	1

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-07R
Lab Sample ID: 480-204719-9
Date Collected: 12/13/22 12:35
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			12/14/22 16:54	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			12/14/22 16:54	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			12/14/22 16:54	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			12/14/22 16:54	10
1,1-Dichloroethane	ND		10	3.8	ug/L			12/14/22 16:54	10
1,1-Dichloroethene	ND		10	2.9	ug/L			12/14/22 16:54	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			12/14/22 16:54	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			12/14/22 16:54	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			12/14/22 16:54	10
1,2-Dichloroethane	ND		10	2.1	ug/L			12/14/22 16:54	10
1,2-Dichloropropane	ND		10	7.2	ug/L			12/14/22 16:54	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			12/14/22 16:54	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			12/14/22 16:54	10
2-Butanone (MEK)	ND		100	13	ug/L			12/14/22 16:54	10
2-Hexanone	ND		50	12	ug/L			12/14/22 16:54	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			12/14/22 16:54	10
Acetone	ND		100	30	ug/L			12/14/22 16:54	10
Benzene	ND		10	4.1	ug/L			12/14/22 16:54	10
Bromodichloromethane	ND		10	3.9	ug/L			12/14/22 16:54	10
Bromoform	ND		10	2.6	ug/L			12/14/22 16:54	10
Bromomethane	ND		10	6.9	ug/L			12/14/22 16:54	10
Carbon disulfide	ND		10	1.9	ug/L			12/14/22 16:54	10
Carbon tetrachloride	ND		10	2.7	ug/L			12/14/22 16:54	10
Chlorobenzene	ND		10	7.5	ug/L			12/14/22 16:54	10
Dibromochloromethane	ND		10	3.2	ug/L			12/14/22 16:54	10
Chloroethane	ND		10	3.2	ug/L			12/14/22 16:54	10
Chloroform	ND		10	3.4	ug/L			12/14/22 16:54	10
Chloromethane	ND		10	3.5	ug/L			12/14/22 16:54	10
cis-1,2-Dichloroethene	**400**		10	8.1	ug/L			12/14/22 16:54	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			12/14/22 16:54	10
Cyclohexane	ND		10	1.8	ug/L			12/14/22 16:54	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			12/14/22 16:54	10
Ethylbenzene	ND		10	7.4	ug/L			12/14/22 16:54	10
1,2-Dibromoethane	ND		10	7.3	ug/L			12/14/22 16:54	10
Isopropylbenzene	ND		10	7.9	ug/L			12/14/22 16:54	10
Methyl acetate	ND		25	13	ug/L			12/14/22 16:54	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			12/14/22 16:54	10
Methylcyclohexane	ND		10	1.6	ug/L			12/14/22 16:54	10
Methylene Chloride	ND		10	4.4	ug/L			12/14/22 16:54	10
Styrene	ND		10	7.3	ug/L			12/14/22 16:54	10
Tetrachloroethene	ND		10	3.6	ug/L			12/14/22 16:54	10
Toluene	ND		10	5.1	ug/L			12/14/22 16:54	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			12/14/22 16:54	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			12/14/22 16:54	10
Trichloroethene	ND		10	4.6	ug/L			12/14/22 16:54	10
Trichlorofluoromethane	ND		10	8.8	ug/L			12/14/22 16:54	10
Vinyl chloride	**140**		10	9.0	ug/L			12/14/22 16:54	10
Xylenes, Total	ND		20	6.6	ug/L			12/14/22 16:54	10

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-07R
Lab Sample ID: 480-204719-9
Date Collected: 12/13/22 12:35
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		12/14/22 16:54	10
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		12/14/22 16:54	10
4-Bromofluorobenzene (Surr)	87		73 - 120		12/14/22 16:54	10
Dibromofluoromethane (Surr)	96		75 - 123		12/14/22 16:54	10

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: DUP
Lab Sample ID: 480-204719-11
Date Collected: 12/13/22 00:00
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			12/14/22 17:38	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			12/14/22 17:38	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			12/14/22 17:38	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			12/14/22 17:38	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			12/14/22 17:38	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			12/14/22 17:38	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			12/14/22 17:38	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			12/14/22 17:38	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			12/14/22 17:38	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			12/14/22 17:38	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			12/14/22 17:38	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			12/14/22 17:38	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			12/14/22 17:38	5
2-Butanone (MEK)	ND		50	6.6	ug/L			12/14/22 17:38	5
2-Hexanone	ND		25	6.2	ug/L			12/14/22 17:38	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			12/14/22 17:38	5
Acetone	ND		50	15	ug/L			12/14/22 17:38	5
Benzene	**2.5**	**J**	5.0	2.1	ug/L			12/14/22 17:38	5
Bromodichloromethane	ND		5.0	2.0	ug/L			12/14/22 17:38	5
Bromoform	ND		5.0	1.3	ug/L			12/14/22 17:38	5
Bromomethane	ND		5.0	3.5	ug/L			12/14/22 17:38	5
Carbon disulfide	ND		5.0	0.95	ug/L			12/14/22 17:38	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			12/14/22 17:38	5
Chlorobenzene	ND		5.0	3.8	ug/L			12/14/22 17:38	5
Dibromochloromethane	ND		5.0	1.6	ug/L			12/14/22 17:38	5
Chloroethane	ND		5.0	1.6	ug/L			12/14/22 17:38	5
Chloroform	ND		5.0	1.7	ug/L			12/14/22 17:38	5
Chloromethane	ND		5.0	1.8	ug/L			12/14/22 17:38	5
cis-1,2-Dichloroethene	**150**		5.0	4.1	ug/L			12/14/22 17:38	5
cis-1,3-Dichloropropene	ND		5.0	1.8	ug/L			12/14/22 17:38	5
Cyclohexane	**5.2**		5.0	0.90	ug/L			12/14/22 17:38	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			12/14/22 17:38	5
Ethylbenzene	ND		5.0	3.7	ug/L			12/14/22 17:38	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			12/14/22 17:38	5
Isopropylbenzene	ND		5.0	4.0	ug/L			12/14/22 17:38	5
Methyl acetate	ND		13	6.5	ug/L			12/14/22 17:38	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			12/14/22 17:38	5
Methylcyclohexane	**4.1**	**J**	5.0	0.80	ug/L			12/14/22 17:38	5
Methylene Chloride	ND		5.0	2.2	ug/L			12/14/22 17:38	5
Styrene	ND		5.0	3.7	ug/L			12/14/22 17:38	5
Tetrachloroethene	ND		5.0	1.8	ug/L			12/14/22 17:38	5
Toluene	ND		5.0	2.6	ug/L			12/14/22 17:38	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			12/14/22 17:38	5
trans-1,3-Dichloropropene	ND		5.0	1.9	ug/L			12/14/22 17:38	5
Trichloroethene	ND		5.0	2.3	ug/L			12/14/22 17:38	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			12/14/22 17:38	5
Vinyl chloride	**180**		5.0	4.5	ug/L			12/14/22 17:38	5
Xylenes, Total	ND		10	3.3	ug/L			12/14/22 17:38	5

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: DUP
Lab Sample ID: 480-204719-11
Date Collected: 12/13/22 00:00
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		12/14/22 17:38	5
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/14/22 17:38	5
4-Bromofluorobenzene (Surr)	90		73 - 120		12/14/22 17:38	5
Dibromofluoromethane (Surr)	98		75 - 123		12/14/22 17:38	5

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-204719-12
Date Collected: 12/13/22 00:00
Matrix: Water
Date Received: 12/13/22 14:00

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/14/22 18:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/14/22 18:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/14/22 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/14/22 18:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/14/22 18:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/14/22 18:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/14/22 18:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/14/22 18:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/14/22 18:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/14/22 18:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/14/22 18:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/14/22 18:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/14/22 18:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/14/22 18:00	1
2-Hexanone	ND		5.0	1.2	ug/L			12/14/22 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/14/22 18:00	1
Acetone	ND		10	3.0	ug/L			12/14/22 18:00	1
Benzene	ND		1.0	0.41	ug/L			12/14/22 18:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/14/22 18:00	1
Bromoform	ND		1.0	0.26	ug/L			12/14/22 18:00	1
Bromomethane	ND		1.0	0.69	ug/L			12/14/22 18:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/14/22 18:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/14/22 18:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/14/22 18:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/14/22 18:00	1
Chloroethane	ND		1.0	0.32	ug/L			12/14/22 18:00	1
Chloroform	ND		1.0	0.34	ug/L			12/14/22 18:00	1
Chloromethane	ND		1.0	0.35	ug/L			12/14/22 18:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/14/22 18:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/14/22 18:00	1
Cyclohexane	ND		1.0	0.18	ug/L			12/14/22 18:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/14/22 18:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/14/22 18:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/14/22 18:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/14/22 18:00	1
Methyl acetate	ND		2.5	1.3	ug/L			12/14/22 18:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/14/22 18:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/14/22 18:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/14/22 18:00	1
Styrene	ND		1.0	0.73	ug/L			12/14/22 18:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/14/22 18:00	1
Toluene	ND		1.0	0.51	ug/L			12/14/22 18:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/14/22 18:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/14/22 18:00	1
Trichloroethene	ND		1.0	0.46	ug/L			12/14/22 18:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/14/22 18:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/14/22 18:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/14/22 18:00	1

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-204719-12
Date Collected: 12/13/22 00:00
Matrix: Water
Date Received: 12/13/22 14:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		12/14/22 18:00	1
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		12/14/22 18:00	1
4-Bromofluorobenzene (Surr)	90		73 - 120		12/14/22 18:00	1
Dibromofluoromethane (Surr)	98		75 - 123		12/14/22 18:00	1

Surrogate Summary

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-204719-1	AL-2	91	104	91	97
480-204719-2	AL-1	92	102	89	96
480-204719-3	AL-7	91	102	89	95
480-204719-4	MW-9R	92	104	89	97
480-204719-5	EX-MW-11R	91	104	88	97
480-204719-6	MW-02R	93	104	90	99
480-204719-7	EX-MW-12	90	105	87	100
480-204719-8	MW-04	91	105	87	98
480-204719-9	MW-07R	93	104	87	96
480-204719-11	DUP	93	105	90	98
480-204719-12	TRIP BLANK	93	105	90	98
LCS 480-653342/5	Lab Control Sample	94	106	87	97
MB 480-653342/7	Method Blank	91	106	87	100

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-653342/7
Matrix: Water
Analysis Batch: 653342

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/14/22 11:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/14/22 11:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/14/22 11:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/14/22 11:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/14/22 11:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/14/22 11:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/14/22 11:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/14/22 11:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/14/22 11:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/14/22 11:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/14/22 11:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/14/22 11:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/14/22 11:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/14/22 11:17	1
2-Hexanone	ND		5.0	1.2	ug/L			12/14/22 11:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/14/22 11:17	1
Acetone	ND		10	3.0	ug/L			12/14/22 11:17	1
Benzene	ND		1.0	0.41	ug/L			12/14/22 11:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/14/22 11:17	1
Bromoform	ND		1.0	0.26	ug/L			12/14/22 11:17	1
Bromomethane	ND		1.0	0.69	ug/L			12/14/22 11:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/14/22 11:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/14/22 11:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/14/22 11:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/14/22 11:17	1
Chloroethane	ND		1.0	0.32	ug/L			12/14/22 11:17	1
Chloroform	ND		1.0	0.34	ug/L			12/14/22 11:17	1
Chloromethane	ND		1.0	0.35	ug/L			12/14/22 11:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/14/22 11:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/14/22 11:17	1
Cyclohexane	ND		1.0	0.18	ug/L			12/14/22 11:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/14/22 11:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/14/22 11:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/14/22 11:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/14/22 11:17	1
Methyl acetate	ND		2.5	1.3	ug/L			12/14/22 11:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/14/22 11:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/14/22 11:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/14/22 11:17	1
Styrene	ND		1.0	0.73	ug/L			12/14/22 11:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/14/22 11:17	1
Toluene	ND		1.0	0.51	ug/L			12/14/22 11:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/14/22 11:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/14/22 11:17	1
Trichloroethene	ND		1.0	0.46	ug/L			12/14/22 11:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/14/22 11:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/14/22 11:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/14/22 11:17	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-653342/7
Matrix: Water
Analysis Batch: 653342

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/14/22 11:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*12/14/22 11:17*	*1*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*		*12/14/22 11:17*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*12/14/22 11:17*	*1*

Lab Sample ID: LCS 480-653342/5
Matrix: Water
Analysis Batch: 653342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.9		ug/L		104	76 - 120
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.6		ug/L		98	61 - 148
1,1-Dichloroethane	25.0	23.1		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	22.2		ug/L		89	66 - 127
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	29.3		ug/L		117	56 - 134
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 124
1,2-Dichloroethane	25.0	24.6		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	22.0		ug/L		88	76 - 120
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 120
2-Butanone (MEK)	125	132		ug/L		105	57 - 140
2-Hexanone	125	150		ug/L		120	65 - 127
4-Methyl-2-pentanone (MIBK)	125	144		ug/L		115	71 - 125
Acetone	125	139		ug/L		112	56 - 142
Benzene	25.0	21.8		ug/L		87	71 - 124
Bromodichloromethane	25.0	24.8		ug/L		99	80 - 122
Bromoform	25.0	24.8		ug/L		99	61 - 132
Bromomethane	25.0	25.4		ug/L		102	55 - 144
Carbon disulfide	25.0	23.4		ug/L		94	59 - 134
Carbon tetrachloride	25.0	25.8		ug/L		103	72 - 134
Chlorobenzene	25.0	21.5		ug/L		86	80 - 120
Dibromochloromethane	25.0	25.4		ug/L		102	75 - 125
Chloroethane	25.0	23.9		ug/L		96	69 - 136
Chloroform	25.0	23.3		ug/L		93	73 - 127
Chloromethane	25.0	28.5		ug/L		114	68 - 124
cis-1,2-Dichloroethene	25.0	22.1		ug/L		89	74 - 124
cis-1,3-Dichloropropene	25.0	23.0		ug/L		92	74 - 124
Cyclohexane	25.0	25.1		ug/L		100	59 - 135
Dichlorodifluoromethane	25.0	32.1		ug/L		128	59 - 135
Ethylbenzene	25.0	22.6		ug/L		90	77 - 123
1,2-Dibromoethane	25.0	23.0		ug/L		92	77 - 120
Isopropylbenzene	25.0	24.4		ug/L		97	77 - 122
Methyl acetate	50.0	55.1		ug/L		110	74 - 133
Methyl tert-butyl ether	25.0	23.6		ug/L		95	77 - 120
Methylcyclohexane	25.0	23.0		ug/L		92	68 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-653342/5
Matrix: Water
Analysis Batch: 653342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methylene Chloride			25.0	22.9		ug/L		92	75 - 124		
Styrene			25.0	22.3		ug/L		89	80 - 120		
Tetrachloroethene			25.0	21.9		ug/L		87	74 - 122		
Toluene			25.0	21.8		ug/L		87	80 - 122		
trans-1,2-Dichloroethene			25.0	22.4		ug/L		90	73 - 127		
trans-1,3-Dichloropropene			25.0	24.7		ug/L		99	80 - 120		
Trichloroethene			25.0	22.2		ug/L		89	74 - 123		
Trichlorofluoromethane			25.0	30.4		ug/L		122	62 - 150		
Vinyl chloride			25.0	25.7		ug/L		103	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

QC Association Summary

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

GC/MS VOA

Analysis Batch: 653342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-204719-1	AL-2	Total/NA	Water	8260C	
480-204719-2	AL-1	Total/NA	Water	8260C	
480-204719-3	AL-7	Total/NA	Water	8260C	
480-204719-4	MW-9R	Total/NA	Water	8260C	
480-204719-5	EX-MW-11R	Total/NA	Water	8260C	
480-204719-6	MW-02R	Total/NA	Water	8260C	
480-204719-7	EX-MW-12	Total/NA	Water	8260C	
480-204719-8	MW-04	Total/NA	Water	8260C	
480-204719-9	MW-07R	Total/NA	Water	8260C	
480-204719-11	DUP	Total/NA	Water	8260C	
480-204719-12	TRIP BLANK	Total/NA	Water	8260C	
MB 480-653342/7	Method Blank	Total/NA	Water	8260C	
LCS 480-653342/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: AL-2
Lab Sample ID: 480-204719-1
Date Collected: 12/13/22 08:25
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	653342	AXK	EET BUF	12/14/22 13:59

Client Sample ID: AL-1
Lab Sample ID: 480-204719-2
Date Collected: 12/13/22 08:50
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	653342	AXK	EET BUF	12/14/22 14:21

Client Sample ID: AL-7
Lab Sample ID: 480-204719-3
Date Collected: 12/13/22 09:16
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	653342	AXK	EET BUF	12/14/22 14:43

Client Sample ID: MW-9R
Lab Sample ID: 480-204719-4
Date Collected: 12/13/22 09:50
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	653342	AXK	EET BUF	12/14/22 15:05

Client Sample ID: EX-MW-11R
Lab Sample ID: 480-204719-5
Date Collected: 12/13/22 10:20
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		100	653342	AXK	EET BUF	12/14/22 15:27

Client Sample ID: MW-02R
Lab Sample ID: 480-204719-6
Date Collected: 12/13/22 10:45
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	653342	AXK	EET BUF	12/14/22 15:49

Client Sample ID: EX-MW-12
Lab Sample ID: 480-204719-7
Date Collected: 12/13/22 11:25
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	653342	AXK	EET BUF	12/14/22 16:11

Lab Chronicle

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Client Sample ID: MW-04
Lab Sample ID: 480-204719-8
Date Collected: 12/13/22 11:55
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	653342	AXK	EET BUF	12/14/22 16:33

Client Sample ID: MW-07R
Lab Sample ID: 480-204719-9
Date Collected: 12/13/22 12:35
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		10	653342	AXK	EET BUF	12/14/22 16:54

Client Sample ID: DUP
Lab Sample ID: 480-204719-11
Date Collected: 12/13/22 00:00
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		5	653342	AXK	EET BUF	12/14/22 17:38

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-204719-12
Date Collected: 12/13/22 00:00
Matrix: Water
Date Received: 12/13/22 14:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260C		1	653342	AXK	EET BUF	12/14/22 18:00

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

Method Summary

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
5030C	Purge and Trap	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: LaBella Associates DPC
Job ID: 480-204719-1
Project/Site: Alumax & Roblin Periodic Review Reports

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-204719-1	AL-2	Water	12/13/22 08:25	12/13/22 14:00
480-204719-2	AL-1	Water	12/13/22 08:50	12/13/22 14:00
480-204719-3	AL-7	Water	12/13/22 09:16	12/13/22 14:00
480-204719-4	MW-9R	Water	12/13/22 09:50	12/13/22 14:00
480-204719-5	EX-MW-11R	Water	12/13/22 10:20	12/13/22 14:00
480-204719-6	MW-02R	Water	12/13/22 10:45	12/13/22 14:00
480-204719-7	EX-MW-12	Water	12/13/22 11:25	12/13/22 14:00
480-204719-8	MW-04	Water	12/13/22 11:55	12/13/22 14:00
480-204719-9	MW-07R	Water	12/13/22 12:35	12/13/22 14:00
480-204719-11	DUP	Water	12/13/22 00:00	12/13/22 14:00
480-204719-12	TRIP BLANK	Water	12/13/22 00:00	12/13/22 14:00

Chain of Custody Record

Eurofins Buffalo
10 Hazelwood Drive

Amherst, NY 14228-2223
phone 716.691.2600 fax 716.691.7991

eurofins | Environment Testing America

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Eurofins Environment Testing America

Client Contact	**Project Manager: Chris Kibler**		COC No:
LaBella Associates	Email: ckibler@labellapc.com	Site Contact: / Date: 12/13/22	____ of ____ COCs
300 Pearl Street Suite 130	Tel/Fax:	Lab Contact: / Carrier:	TALS Project #:
Buffalo, NY	**Analysis Turnaround Time**		Sampler:
(716) 551-6281 Phone	☐ CALENDAR DAYS ☐ WORKING DAYS		**For Lab Use Only:**
	TAT if different from Below ____		Walk-in Client:
Project Name: Former Roblin Steel and Alumax Sites	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day — Standard		Lab Sampling:
Site:			Job / SDG No.:
P O #			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs - 8260	Sample Specific Notes:
~~MW-13~~ (AH)	~~12/12~~	~~1315~~	~~G~~	~~H2O~~	~~3~~			X	
AL-2	12/13	0825	G	H_2O	3			X	
AL-1	↓	0850	↓	↓	↓			X	
AL-7	↓	0916	↓	↓	↓			X	
MW-9R	↓	0950	↓	↓	↓			X	
EX-MW-11R	↓	1020	↓	↓	↓			X	
MW-02R	↓	1045	↓	↓	↓			X	
Ex-MW-12	↓	1125	↓	↓	↓			X	
MW-04	↓	1155	↓	↓	↓			X	
MW-07R	↓	1235	↓	↓	↓			X	
MW-13	↓	1315	↓	↓	↓			X	
DUP	↓	—	↓	↓	↓			X	

480-204719 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:
Analyze Trip blank for VOCs - 8260

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: 3.4 Corr'd: ____		Therm ID No.: #1
Relinquished by: Chad Koons	Company: LaBella	Date/Time: 12/13/22 [illegible]	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAB	Date/Time: 12-13-22 1410

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-204719-1

Login Number: 204719

List Source: Eurofins Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	