2018 Periodic Review Report

Location:

Former Alumax Extrusions Site
440 and 320 South Roberts Road, Dunkirk, New York
VCP Site No. V00589-9

Prepared for:

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

LaBella Project No. 2160148

January 2019

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1.0 EXECUTIVE SUMMARY

1.1 Site Summary

The former Alumax Extrusions, Inc. Facility (hereinafter referred to as the "Site") consists of two adjoining tax parcels located at 440 and 320 South Roberts Road, Parcels A and B respectively, City of Dunkirk, New York (Figure 1). The Site is comprised of approximately 12 acres of land situated on the north side of South Roberts Road. Progress Drive, constructed in 2014, transects both parcels associated with the Site in a northeast-southwest general direction. Parcel A, located at 440 South Roberts Road and owned by Cliffstar Corporation, contains an approximately 7,200-square foot office building while the remainder of the parcel consists of parking areas for employees. Parcel B, located at 320 South Roberts Road and owned by Chautauqua County, formerly contained a 140,000-square foot building that was demolished in early 2009. It should be noted that the concrete floor slabs were left-in-place at that time.

An environmental investigation conducted at the Site revealed that contamination, likely associated with historical operations, had impacted the Site, necessitating remedial activities. Subsequent remedial activities conducted at the Site included in-situ chemical treatment using zero valent iron (ZVI) in the residual source area (December 2004), removal and off-site disposal of sediments within two catch basins at the Site (mid-2000) and installation of a sub-slab vapor (SSV) mitigation system (December 2003). The remedial efforts also included the development of deed restrictions and the June 2004 Combined Institution Control Plan and Operations and Maintenance Plan (CICP/OMP) which provides guidance concerning the surface cover, soil/fill excavation and management, groundwater use and routine monitoring for the groundwater within the residual source area.

1.2 Effectiveness of Remedial Program

Per the requirements of the CICP/OMP, on-site excavation activities and soil disturbances associated with the construction of the Progress Drive project were handled in accordance with the Soils Management Plan (SMP). Furthermore, the cover system elements that were installed on the Site in conjunction with the aforementioned roadway project are consistent with the requirements outlined in the CICP/OMP.

The results of the groundwater monitoring revealed that total chlorinated, volatile organic compound (VOC) concentrations in two of the three monitoring wells (AL-2 and AL-7) that comprise the required monitoring network for the Site were below the 100 micrograms per liter (ug/L) threshold specified in the CICP/OMP. Total chlorinated VOC concentrations in AL-1 have increased slightly since the last sampling event but still appear to be significantly lower than the pre-remedial sample results from January 2003. However, total concentrations were still in exceedance of 100 ug/L. As a result, sampling of the three wells will continue until all are below the specified threshold for chlorinated VOCs.

Overall, the remedial program is viewed to be effective in achieving the remedial objectives of the Site. The Site will continue to be monitored in accordance with the CICP/OMP.

1.3 Compliance

No areas of non-compliance regarding the major elements of the SMP were identified during the preparation of this Periodic Review Report (PRR).

1.4 Recommendations

No recommended changes to the CICP/OMP were identified during this PRR.

2.0 SITE OVERVIEW

2.1 Site Background

Industrial development of the project Site was initiated around 1920, when the American Locomotive Company expanded its Dunkirk operations onto the project Site. The Site use has varied over time and uses have included a foundry, coal storage, locomotive manufacturing and finned heat exchanger fabrication. In 1976, the facility was acquired by Alumax, Inc. (Alumax), which operated an aluminum extrusion business at the Site until 1993, operating as Alumax Extrusions, Inc. Alcoa's acquisition of Alumax in 1998 included the idle Dunkirk facility.

The project Site consists of two adjoining parcels located at 440 and 320 South Roberts Road, Parcels A and B respectively, within the City of Dunkirk, New York (Figure 1). The project Site is comprised of approximately 12 acres of land situated on the north side of South Roberts Road. Progress Drive, constructed in 2014, transects both parcels associated with the Site in a northeast-southwest general direction. Parcel A, located at 440 South Roberts Road and owned by Cliffstar Corporation, contains an approximately 7,200-square foot office building while the remainder of the parcel consists of parking areas for employees. Parcel B, located at 320 South Roberts Road and owned by Chautauqua County, formerly contained a 140,000-square foot building that was demolished in early 2009. It should be noted that the concrete floor slabs were left-in-place at that time. Parcel B has remained vacant and undeveloped with the exception of the construction of a new segment of Progress Drive that transects the Site. The plans for the new roadway were developed and carried out in accordance with the CICP/OMP. During construction of the new roadway, select portions of the former building concrete slabs were crushed and spread out on the surface of the Site outside of the new roadway limits. Construction of the new roadway was completed in Fall 2014. Parcels A and B are identified in the November 2004 Deed Restriction (Appendix 1) and are depicted on Figure 2.

2.2 Remedial Program Overview

An environmental investigation conducted at the Site revealed that contamination, likely associated with the historical operations, had impacted the Site, necessitating remedial activities. Constituents of potential concern (COPCs) identified within soil/fill at the Site consisted primarily of chlorinated hydrocarbons (specifically trichloroethene (TCE) and its degradation products), polycyclic aromatic hydrocarbons, polychlorinated biphenyls and metals. A residual source area containing concentrations of TCE and its degradation products was identified in the groundwater on the north-central portion of the Site. With the exception of the chlorinated hydrocarbons, groundwater has not shown impacts from the COCPs identified in the soil/fill.

Subsequent remedial activities conducted at the Site included in-situ chemical treatment using ZVI in the residual source area (December 2004), removal and off-site disposal of sediments within two catch basins at the Site (mid-2000s) and installation of a SSV mitigation system (December 2003). The remedial efforts also included the development of deed restrictions and the June 2004 CICP/OMP which provides guidance concerning the surface cover, soil/fill excavation and management, groundwater use, and routine monitoring for the groundwater within the residual

source area.

Additionally, as indicated previously, the 140,000-square foot building formerly located on Parcel B was demolished in early 2009. Prior to the demolition, the asbestos-containing-materials within the former Site building were abated in accordance with the requirements outlined in12 NYCRR Part 56 or New York State Department of Labor Industrial Code Rule 56 (ICR 56). The abatement work was completed between November and December of 2008. Demolition of the building occurred in January and February of 2009.

3.0 EFFECTIVENESS OF THE REMEDIAL PROGRAM

Remedial goals for the Site were accomplished through in-situ chemical treatment using ZVI in the residual source area; the removal and off-site disposal of sediments within the two catch basins at the Site; the installation of a sub-slab venting system; and the development of deed restrictions and the June 2004 CICP/OMP.

As indicated in the December 15, 2014 Corrective Measures Summary Report, cover system requirements were satisfied within the newly constructed Progress Drive corridor that transects the Site. Such included at a minimum, six inches of material (asphalt and sub-base) for the roadway and 12 inches of clean New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER)-10 approved soil underlain by a demarcation layer (orange fencing) beneath road shoulders and parallel storm water ditches associated with the new roadway. Review of construction as-builts confirmed that all applicable minimum cover system thicknesses were met within the new road corridor.

Based on the comparison of the pre-remedial and the post-remedial analytical results, the enhanced natural attenuation appears to be achieving the goal of reducing the concentrations of chlorinated solvents in the groundwater.

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

4.1 Institutional Controls

4.1.1 Site Use Restrictions

In accordance with the deed restrictions and the CICP/OMP, the Site is to be used for restricted commercial or restricted industrial uses only. The CICP/OMP presents the following definitions for these use categories:

- Restricted Commercial-Residential uses are not allowed under this category. Commercial uses are allowed but require engineering controls and/or institutional controls. Some types of “commercial” uses that could create “residential” types of exposures are excluded, such as day-care and health-care facilities. Retail stores, warehouse/distribution centers, service facilities and offices would be included in the commercial definition.
- Restricted Industrial-Residential and commercial uses are not allowed. Industrial uses are allowed but they require engineering controls and/or institutional controls. Metal working, manufacturing and other industrial uses are included in this category.

The office building on Parcel A is currently vacant, but was formerly used for commercial office purposes, while the remainder of the Site was used for office-related parking. The use of Parcel A meets the definition of Restricted Commercial use. Parcel B is vacant and undeveloped. Both parcels are now transected by a new segment of Progress Drive, which was constructed in late 2014.

4.1.2 Groundwater Use Restrictions

Previous investigations conducted at the Site and adjacent properties have determined that groundwater resources are limited, particularly within the uppermost groundwater-bearing zone at the Site. Groundwater is not generally used in the vicinity of the Site, nor would it be expected to be used in the future, given the industrial character of the area, the availability of a municipal water supply line in the area and the construction of the new roadway. The clayey soils and shale bedrock have low hydraulic conductivities and produce limited quantities of water. The most productive zone is the top five feet of the shale bedrock, which is fractured and weathered. This zone is also considered to be perched and may be laterally limited. Groundwater in the north-central portion of the Site (i.e. residual source area) is impacted with chlorinated hydrocarbons. Low concentrations of petroleum-related constituents were encountered in other wells. The residual source area was addressed via in-situ treatment technology; however, low-level impacts to groundwater may linger due to the low conductivity and the potential dissolution of chlorinated constituents adsorbed to the clayey soils. Therefore, groundwater use restrictions were implemented at the Site to limit potential exposure to impacted groundwater and are identified in the deed restrictions recorded with the Site deed.

Although groundwater use is not prohibited, it is restricted. Should a future owner or operator determine that groundwater use is beneficial to their operations, permission from the NYSDEC must be obtained. Additionally, the owner or operator must conduct an evaluation of the suitability for the potential use of the groundwater and define the ultimate point of discharge (e.g. sanitary sewer, surface water, or reinjection) for any once-through water or blowdown from any recirculation system(s). Use of groundwater may require appropriate treatment to meet water quality requirements for use and discharge. Groundwater extracted for testing, monitoring and remediation, while excluded from the provisions of this groundwater use restriction, must meet local, state and federal disposal requirements.

4.1.3 Soils Management Plan

The SMP was prepared to identify environmental guidelines for the management of subsurface soil/fill and long-term maintenance of the cover system. The SMP includes requirements that address the following key components:

- Any breach of the cover system;
- Surface erosion and storm water runoff control;
- Management of excavated soil/fill;
- Allowable reuse of excavated soil/fill;
- Requirements for off-site fill and grading materials;
- Notification requirements; and,
- Annual reporting and certification results.

4.1.4 Groundwater Monitoring

Groundwater monitoring is required for evaluating the effectiveness of ZVI application in the residual source area that was completed in December 2004. This monitoring consists of sampling and analysis of groundwater collected from Monitoring wells AL-1, AL-2 and AL-7 (see Figure 2). The samples are analyzed for United States Environmental Protection Agency (USEPA) Target Compound List (TCL) VOCs. Annual groundwater monitoring is performed in conjunction with the annual review of the institutional and engineering controls. In accordance with the CICP/OMP, this annual monitoring will occur until total concentrations of chlorinated VOCs fall below 100 ug/L in all three monitoring wells. The sample analysis from AL-1 in 2017 revealed that total VOC concentrations in this well exceeded the 100 ug/L concentration threshold. Therefore, groundwater samples were collected during the current reporting period and the results, which are compared with pre-remedial analytical results, are summarized in Section 5.2 of this report.

4.2 Engineering Controls

4.2.1 Surface Cover System

The long history of industrial use of the Site has resulted in widespread, low-level impacts of Site-wide soils. To limit casual exposures to the Site soils, a surface soil cover system consisting of clean soil, pavement, and/or concrete will be constructed as the Site is developed. The purpose of the surface cover system will be to eliminate the potential for human contact with fill material and eliminate the potential for contaminated runoff from the Site. The cover system will consist of one or more of the following types of clean material:

- Soil: 12 inches of vegetated soil cover underlain by a demarcation layer in outdoor vegetated areas.
- Asphalt: A minimum of six inches of material (asphalt and sub-base material) in areas that will become roads, sidewalks and parking lots.
- Concrete: A minimum of six inches of material (concrete and sub-base material) in areas that will become slab-on-grade structures or for roads, sidewalks, and parking lots in lieu of asphalt.

In the Summer/Fall of 2014, a new public roadway and associated storm water drainage ditches were constructed across a portion of the Site. Construction details implemented for the roadway included a 12-inch sub-base followed by a 6-inch base course, 2-inch binder course and 1.5-inch top course of asphalt. Between 2-3 feet of clean, NYSDEC DER-10 approved soil, underlain by a demarcation layer (orange fencing), was placed along the margins of the roadway. The drainage ditches were then constructed within the clean soil to depths of a minimum of 12-inches above the demarcation layer.

On December 10, 2018, Mr. Andrew Benkleman, EIT of LaBella Associates, D.P.C. (LaBella) conducted the annual inspection, which included traversing the Site on foot to observe the current conditions. Parcel A contained an approximately 7,200-square foot building and related parking areas, as well as a portion of Progress Drive. Parcel B was vacant and undeveloped with the exception of Progress Drive, which transects the parcel in a northeast-southwest direction. At the time of the Site inspection, the asphalt cover occurring within the Progress Drive corridor was in very good condition and no areas of exposed sub-base were observed. The floor and walls of the roadside ditches were covered with coarse, low-lying vegetation. No evidence of erosion or exposed synthetic erosion control fabric was observed within the storm water ditches. The remainder of Parcel B

consisted of portions of intact concrete building slabs that remain following demolition of the former on-site buildings and rubblized concrete.

Appendix 2 includes photographs taken during the Site inspection.

4.2.2 Sub-Slab Vapor Mitigation

The former building that occupied the Site contained a sub-slab venting system that was located over the residual source area. The building and sub slab venting system were demolished in early 2009. Therefore, the continued maintenance and operation of this system is no longer required.

For slab-on-grade structures, an 8-milliliter polyethylene barrier will be placed beneath the concrete for new structures built in the portion of the Site identified as the residual source area. The vapor barrier is not required in areas other than the residual source area because VOCs were not found in significant quantities on any other portion of the Site.

4.3 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 CICP/OMP. Appendix 3 includes the NYSDEC "Site Management Periodic Review Report Notice-Institutional and Engineering Controls Certification Form."

5.0 MONITORING PLAN COMPLIANCE REPORT

5.1 Requirements

The Operations and Maintenance Plan (O&M Plan) is included in Section 3.0 of the CICP/OMP and includes groundwater monitoring requirements associated with the performance monitoring of the in-situ remedial measures for the chlorinated hydrocarbons, the maintenance of the sub-slab venting system, and the annual certification of the implementation of the Institutional Control Plan.

5.2 Groundwater Monitoring

Groundwater Monitoring is required for evaluating the effectiveness of the ZVI application in the residual source area that was completed in December 2004. In accordance with the CICP/OMP, this annual monitoring will occur until total concentrations of chlorinated VOCs fall below 100 ug/L in all three wells.

5.2.1 Sampling Procedure

Three groundwater monitoring wells were purged and sampled in general accordance with the procedures detailed in the July 15, 2003, Interim Remedial Measures Work Plan and the October 6, and 24, 2013 addendums. All monitoring well sampling activities were recorded on groundwater sampling logs, which are included in Appendix 4. 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.

Per the O&M Plan included in Section 3.0 of the CICP/OMP, if a well is purged dry then the well will be sampled once sufficient volume has recovered in the well. Well purging consisted of the

evacuation of three well volumes from AL-1, AL-2 and AL-7 using NYSDEC-approved low-flow purging procedures via a Geotech Geopump II AC/DC Peristaltic Pump. The samples were then collected within three hours of completion of well development 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 New York State Department of Health, 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 the complete analytical laboratory report are included in Appendix 5.

5.2.3 Quality Assurance/Quality Control

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 Roblin Steel Site were conducted in conjunction with one another on December 12, 2018, 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-12) 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.

Groundwater flow is generally to the north/northwest in the area containing the Site. However, according the CICP/OMP for the Site, localized flow direction in the vicinity of these wells is generally to the southwest. Due to the influence of building foundations and subsurface utilities in the area of these wells; however, the water level data from these wells are not likely suitable for determining groundwater flow direction. It should be noted that foundations and utilities were not removed during the building demolition; therefore, flow conditions in this area likely continue to be influenced by these subsurface features.

5.3 Comparisons with Remedial Objectives

The groundwater analytical data for this monitoring event indicate that total chlorinated, VOC concentrations in AL-2 and AL-7 were below the 100 ug/L threshold specified in the CICP/OMP. However, the total chlorinated VOC concentration in AL-1 exceeded this threshold. The results from each of the monitoring wells are further discussed below.

Total VOC concentrations in AL-1 were found to be slightly higher than those identified during the February 2018 sampling event; however, these concentrations are still significantly lower than the pre-remedial sample results recorded in January 2003. While benzene, cylcohexane and methylcyclohexane were detected at concentrations above NYSDEC TOGS Standards, these concentrations were less than the last sampling event and are still significantly lower than the pre-remedial sample results recorded in January 2003. Cis-1, 2-Dichloroethene and vinyl chloride were also detected in AL-1 at concentrations above NYSDEC TOGS Standards; however, these concentrations are still significantly lower than the pre-remedial sample results recorded in January 2003. Continued monitoring of this location is warranted.

Total VOC concentrations in AL-2 were found to be slightly higher than those identified during the February 2018 sampling event; however, these concentrations have significantly decreased over time and are at their second lowest concentration since the initial post-remedial sampling event in February 2009. Benzene was detected at a concentration above NYSDEC TOGS Standards; however, the benzene concentration was lower than the pre-remedial sample results recorded in January 2003.

Total VOC concentrations in AL-7 were found to be slightly higher than those identified during the February 2018 sampling event; however, these concentrations have significantly decreased and are at their second lowest concentration since the initial post-remedial sampling event in February 2009. Cis-1, 2-Dichloroethene was detected at a concentration above NYSDEC TOGS Standards; however, the Cis-1, 2-Dichloroethene concentration was lower than the pre-remedial sample results recorded in January 2003.

A comparison of the results from MW-12 on the adjacent Roblin Steel Site with the blind field duplicate indicates that the data coincide. In addition, no VOC detections were identified within the trip blank analysis.

5.4 Monitoring Deficiencies

No monitoring deficiencies were noted during the completion of the PRR and annual sampling event.

5.5 Conclusions and Recommendations

Groundwater monitoring is required for evaluating the effectiveness of the ZVI application in the residual source area that was completed in December 2004. Based upon current analytical results, total chlorinated VOC concentrations in AL-2 and AL-7 are well below the CICP/OMP threshold of 100 ug/L. Total chlorinated VOC concentrations in AL-1 have increased slightly since the last sampling event but still appear to be significantly lower than the pre-remedial sample results from January 2003. However, total concentrations were still in exceedance of 100 ug/L. In accordance with the CICP/OMP, annual groundwater monitoring will continue until total concentrations of chlorinated VOCs fall below 100 ug/L in all three wells. No changes to the Monitoring Plan or the CICP/OMP are recommended at this time.

6.0 CONCLUSIONS AND RECOMMENDATIONS

At the time of the Site inspection, the Site was found to be in compliance with the CICP/OMP.

No issues relating to the condition or integrity of the Progress Drive cover system components were noted as a result of the Site inspection conducted by LaBella.

Based upon current analytical results, total chlorinated VOC concentrations in two of the three groundwater wells (AL-2 and AL-7) that comprise the Site's monitoring network were below the CICP/OMP threshold of 100 ug/L. Based upon these results, it appears that natural attenuation is occurring at the Site and the remedial objectives are being achieved. However, in accordance with the CICP/OMP, annual groundwater monitoring will continue until total concentrations of chlorinated VOCs fall below 100 ug/L in all three wells.

No changes to the Monitoring Plan, the CICP/OMP or the PRR frequency are recommended at this time. The next groundwater sampling event and PRR will occur in December 2019.

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 except 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 be 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

Declaration of Covenants and Restrictions, Deed Book 02560, Page 0509, Chautauqua County Clerk, November 22, 2004

DER-10/Technical Guidance for Site Investigation and Remediation, NYSDEC, May 3, 2010

Voluntary Clean-Up Program, Combined Institutional Control Plan/Operations and Maintenance Plan, URS Corp., June 23, 2004

Voluntary Clean-Up Program, Interim Remedial Measures Completion Report, Alumax Extrusions, Inc., URS Corp., April 30, 2004

Periodic Review Report, Former Alumax Extrusions Site, LaBella Associates, D.P.C., December 2017

Corrective Measures Summary Report, Former Alumax Extrusions, Inc. Facility, KHEOPS Architecture, Engineering and Survey, DPC, December 15, 2014

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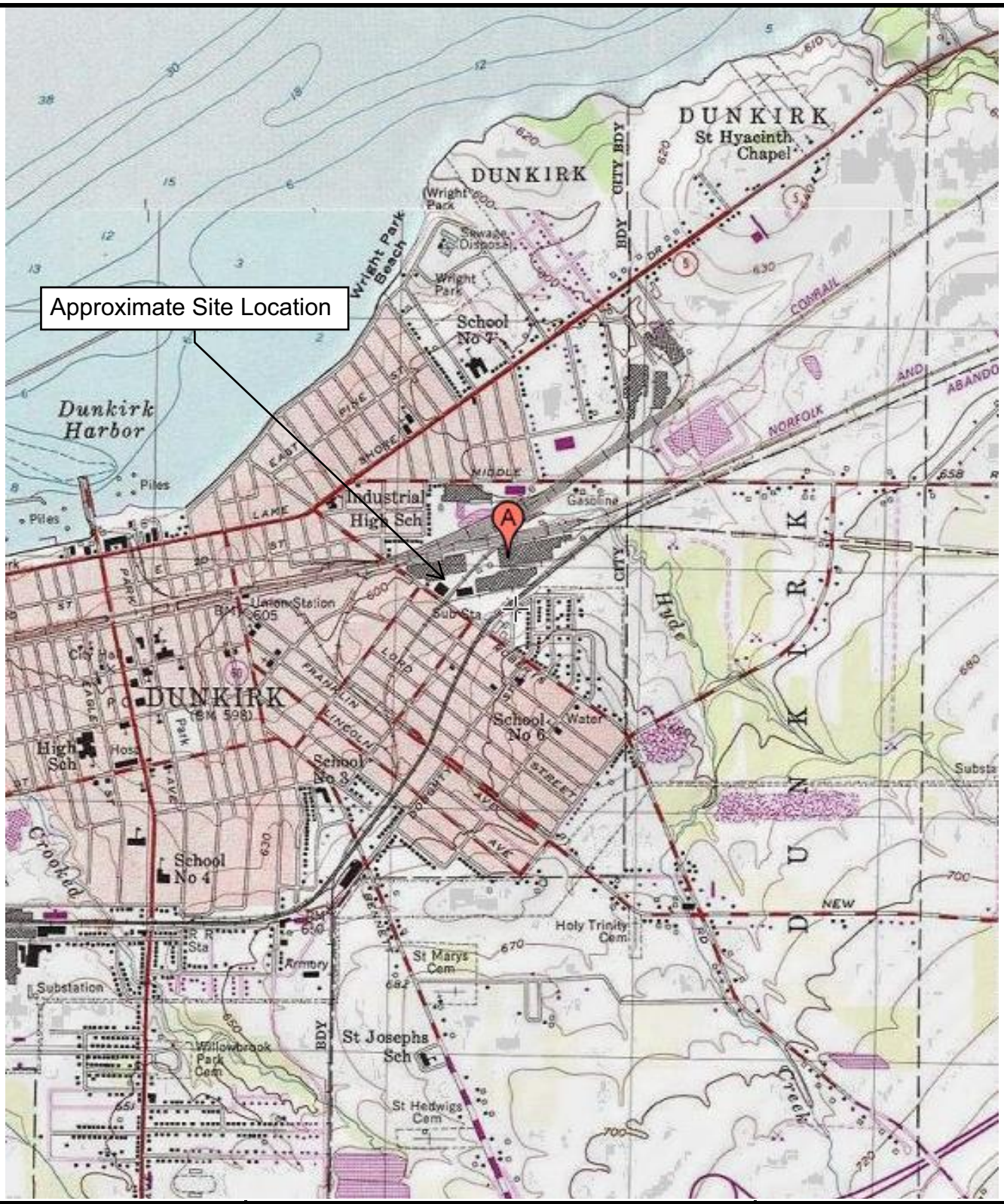
FIGURES



Not To Scale

FIGURE 1
SITE LOCATION MAP

Former Alumax Extrusions Site
320 and 440 South Roberts Road
Dunkirk, New York

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N
W E
S

0 50 100
Feet

1 inch = 92 feet

INTENDED TO PRINT AS: 11" X 17"

PROJECT:

FORMER ALUMAX EXTRUSIONS SITE

DRAWING NAME:

SITE PLAN

PROJECT #/DRAWING #/ DATE

2160148

FIGURE 2

1/14/2019

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TABLE

Table 1
Former Alumax Extrusions Site
Summary of Analytical Results
Groundwater Samples

PARAMETER	REGULATORY VALUE	AL-1											AL-2											AL-7									
Collection Date		5/31/00	1/16/03	2/10/09	2/22/11	7/19/12	8/15/13	7/15/14	12/12/15	12/14/16	2/2/18	12/12/18	5/31/00	1/16/03	2/10/09	2/22/11	7/19/12	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18	2/25/04	2/10/09	2/22/11	7/19/12	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	12/12/18
		Pre-Remedial Results	Post-Remedial Results										Pre-Remedial Results	Post-Remedial Results										Pre-Remedial Results	Post-Remedial Results								
Volatile Organic Compounds (ug/L)																																	
1,1-Dichloroethene	5		73			9.3			24		2.2															4.2							
cis-1,2-Dichloroethene	5	1,500	9,400	1,280	1,140	1,000	961	1,820	3,200	2,500	850	1,100			9.36	6.94	2.3	394	1160	8.7		0.87	4.3	1,100	600	473	300	517	124	42	7	6.5	7.2
trans-1,2-Dichloroethene	5		39			3.9			10		2.4															1.9			0.4			
Acetone	50										7.6																138	17.9	1.3			
Benzene	1		38	9.77	17.1	17	14.9		9.5		18	14		12	6.1	16.1	13	5.47		5.5	9	4.1	7							0.23			
Carbon Disulfide	60										0.45																						
Cyclohexane	5		64			180			5.2		17	11		2			34			4.2		2.4	3.6				14			0.73			0.54
Ethylbenzene	5		6			2.5					1.1			4						0.23													
Isopropylbenzene	5					5.9																											
Methylcyclohexane	5		41			120					16	6.3								1.5		0.5	0.34				27			0.55			
Methylene Chloride	5									45											12												
Toluene	5		43			2.2			3.1		0.81																						
m,p-Xylene	5					4.5																											
o-Xylene	5					7.9			2.4																				0.31			
Total Xylenes	5		13			12.4					3.3													29									
Trichloroethene	5	2,400	4,600	118	197	100	192	278	88	130	55									1.5				3,000	154	138	55	109	9.26	6.7	2	0.96	
Vinyl chloride	2	240	740	977	825	460	416	1040	850	850	150	540			3.7			246	104	2.7		1.2		160	331	271	190	247	17.1	4.8			1.4
BTEX Compounds	-	0	87	10	17	34	15	0	15	0	20		0	16	6	16	13	5	0	6	9	4		0	0	0	0	0	1	0	0		
Total VOCs	-	4,140	15,057	2,385	2,179	1,913	1,584	3,138	4,192	3,525	1,124	1,671	0	18	19	23	49	645	1,264	24	21	9	15	4,289	1,085	882	592	1,011	168	57	9	7.46	9

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.
ug/L = Micrograms per Liter (equivalent to parts per billion (ppb)).
Only compounds with one or more detections are shown.
Blank spaces indicate that the analyte was not detected.

APPENDIX 1

November 2004 Deed Restrictions/Property Information

Chautauqua County Clerk

Return To:

PUBLIC ABSTRACT CORPORATION
DEFAULT SERVICES
31 E MAIN ST 3RD FL
ROCHESTER NY 14614

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Book 02560 Page 0509

No. Pages 0007

Instrument DECLAR-DEEDS

Date : 11/22/2004

Time : 2:20:53

Control # 200411220133

INST# DE 2004 007426

Employee ID LORENZOT

ALCOA INC

NEW YORK STATE DEPARTMENT OF E
NVIRONMENTAL CONSERV ATION

COUNTY	$	27.00
	$	.00
ST ED DEPT	$	4.75
	$	.00
	$	.00
	$	.00
	$	.00
CEA	$	14.25
	$	.00
Total:	$	46.00

STATE OF NEW YORK
Chautauqua County Clerk

TRANSFER TAX

WARNING: THIS SHEET CONSTITUTES THE CLERK'S ENDORSEMENT, REQUIRED BY SECTION 316-a(5) & SECTION 319 OF THE REAL PROPERTY LAW OF THE STATE OF NEW YORK. DO NOT DETACH.

CONSIDERATN $ .00

Transfer Tax $ .00

Sandra K. Sopak
County Clerk

D025600509

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT is made the 3rd day of November 2004, by ALCOA INC., a Pennsylvania corporation, as successor in interest to Alumax Inc., a Delaware corporation, whose address is Alcoa Corporate Center, 201 Isabella Street, Pittsburgh, Pennsylvania 15212-5858 ("Alcoa").

WHEREAS Alcoa is the subject of Voluntary Agreement Index No. B9-0616-02-06, dated 08 August 2002 (the "Agreement") executed by Robert S. Bear (on behalf of Alcoa) and Susan I. Taluto, Deputy Commissioner – NYSDEC Water Quality and Environmental Remediation as part of the New York State Department of Environmental Conservation's (the "Department's) Voluntary Cleanup Program, namely that parcel of real property located at 320 South Roberts Road in the City of Dunkirk, County of Chautauqua, State of New York, which is part of lands conveyed by:

Warranty Deed made by Alumax Inc. to Alcoa, dated November 3, 2004 and recorded on November 22, 2004 in Liber 2510 of Deeds at page 505;

and being more particularly described in Appendix "A," attached to this declaration and made a part hereof, and hereinafter referred to as "the Property"; and

WHEREAS, the Department approved a remedy to eliminate or mitigate all significant threats to the environment presented by the contamination disposed at the Property and such remedy requires that the Property be subject to restrictive covenants.

NOW, THEREFORE, Alcoa, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is as shown on a map attached to this declaration as Appendix "B" and made a part hereof, and consists of:

PARCEL A

ALL THAT TRACT OR PARCEL OF LAND, situate in the City of Dunkirk, County of Chautauqua and State of New York and more particularly described as follows:

BEGINNING on the centerline of Roberts Road at the point located 601.13

feet northwesterly along said centerline from the northerly line of lands of the Norfolk and Western Railroad, (former New York, Chicago and St. Louis Railroad); thence north 40° 28' east (assumed bearing) a distance of 396.0 feet to a point; thence north 81° 31' east a distance of 95.9 feet to a point; thence south 8° 39' east a distance of 514.37 feet to an iron pin; thence south 38° 16' west a distance of 114.28 feet to said centerline of Roberts Road; thence north 51° 44' west a distance of 456.6 feet along said centerline to the point or place of beginning.

PARCEL B

ALL THAT TRACT OR PARCEL OF LAND, situate in the City of Dunkirk, County of Chautauqua and State of New York and more particularly described as follows:

BEGINNING in the center line of the existing 30.3 foot pavement in Roberts Road at a point located 94.53 feet northwesterly along said centerline from the northwesterly line of lands of the New York, Chicago & St. Louis Railroad Company; thence north 51° 44' west along said centerline a distance of 50 feet to a point on line of lands now or formerly of Plymouth Tube Company; thence north 38° 16' east a distance of 114.28 feet to an iron pin and passing through an iron pin located 33 feet northeasterly along the last described course from the centerline of Roberts Road; thence north 8° 39' west a distance of 514.37 feet to an iron pin on point of lands now or formerly of Roblin Industries, Inc.; thence continuing along line of lands of Roblin Industries, north 81° 31' east a distance of 822 feet to an iron pin and south 8° 29' east 251.95 feet to a point on line of lands now or formerly of said Railroad Company; thence south 53° 33' west 219.15 feet to a monument; thence north 87° 18' west 24.88 feet to a monument; thence south 53° 33' west 137.59 feet to an iron pin; thence north 88° 30' west 111.6 feet to an iron pin; thence south 56° 19' 32" west 381.7 feet to a monument; thence south 38° 16' west, 102.49 feet to the point or place of beginning, and passing through an iron pin located 33 feet northeasterly along the last described course from the place of beginning.

Second, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, there shall be no construction, use or occupancy; disturbance or excavation of the Property that is inconsistent with the approved "Combined Institutional Control Plan and Operations and Maintenance Plan – Former Alumax Extrusions Site," Site No. V00589-9 (Combined Plan) and that results in unacceptable human exposure to contaminated soils.

Third, the owner of the Property shall be responsible to implement the Combined Plan or implementing any modifications to the Combined Plan after obtaining the written approval of the Relevant Agency.

Fourth, the owner of the Property shall prohibit the Property from ever being used for purposes other than for restricted industrial or restricted commercial use without the express written waiver of such prohibition by the Relevant Agency.

Fifth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Relevant Agency.

Sixth, the owner of the Property shall continue in full force and effect the prohibition against uses other than restricted commercial and/or industrial uses, and shall assure that any construction, use, occupancy, disturbance or excavation on the property shall be in conformance with the "Combined Plan" as institutional and engineering controls required under the Agreement, and shall continue to implement and annually report on the status, results and effectiveness of the operation, monitoring and maintenance requirements to the Relevant Agency unless the owner first obtains permission to discontinue to do so.

Seventh, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property, and shall provide that the owner and its successors and assigns consent to enforcement by the Relevant Agency of the prohibitions, restrictions and requirements set out in this Covenant, the Agreement, and the Combined Plan, and hereby covenant not to contest the authority of the Relevant Agency to seek enforcement.

Eighth, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day first above written.

ALCOA INC.

By: Russell W Porter Jr

Russell W. Porter, Jr.
Vice President

Date: November 3, 2004

STATE OF PENNSYLVANIA)
) SS:
COUNTY OF ALLEGHENY)

Personally appeared before me, the undersigned authority in and for the said county and state, on this 3rd day of November, 2004, within my jurisdiction, the within named Russell W. Porter, Jr., who acknowledged that he is a Vice President of Alcoa Inc., a Pennsylvania corporation, and that for and on behalf of the said corporation, and as its act and deed, he executed the above and foregoing instrument, after first having been duly authorized by said corporation so to do.

Jacqueline L Murtha
Notary Public

My Commission Expires:

Notarial Seal
Jacqueline L. Murtha, Notary Public
City Of Pittsburgh, Allegheny County
My Commission Expires Jan. 24, 2007
Member, Pennsylvania Association Of Notaries

(SEAL)

APPENDIX "A"

PARCEL A

ALL THAT TRACT OR PARCEL OF LAND, situate in the City of Dunkirk, County of Chautauqua and State of New York and more particularly described as follows:

BEGINNING on the centerline of Roberts Road at the point located 601.13 feet northwesterly along said centerline from the northerly line of lands of the Norfolk and Western Railroad, (former New York, Chicago and St. Louis Railroad); thence north 40° 28' east (assumed bearing) a distance of 396.0 feet to a point; thence north 81° 31' east a distance of 95.9 feet to a point; thence south 8° 39' east a distance of 514.37 feet to an iron pin; thence south 38° 16' west a distance of 114.28 feet to said centerline of Roberts Road; thence north 51° 44' west a distance of 456.6 feet along said centerline to the point or place of beginning.

PARCEL B

ALL THAT TRACT OR PARCEL OF LAND, situate in the City of Dunkirk, County of Chautauqua and State of New York and more particularly described as follows:

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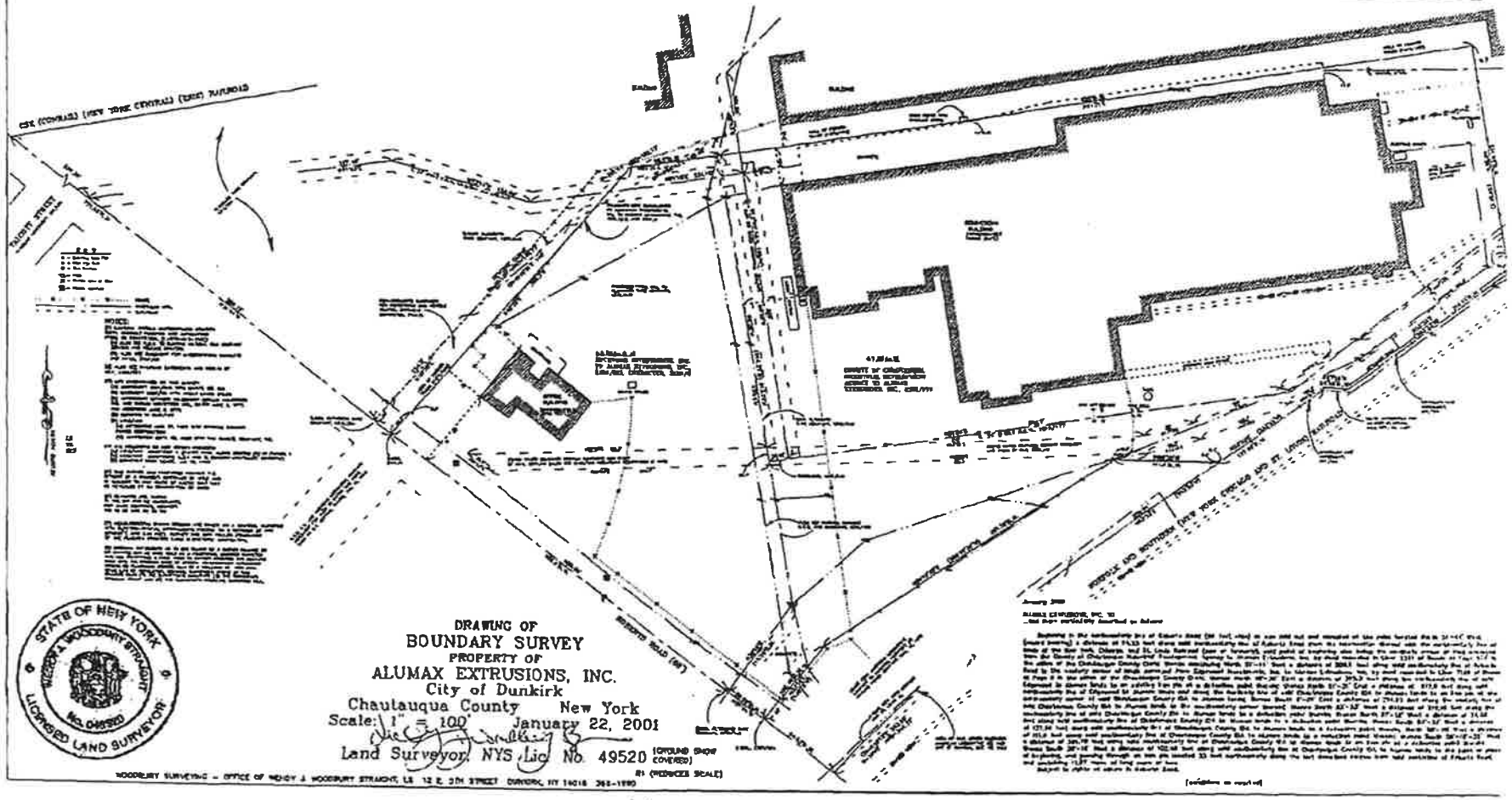
STATE OF NEW YORK, COUNTY OF CHAUTAUQUA, A TRUE COPY OF THE ORIGINAL FILED OR RECORDED IN THIS OFFICE

NOV 24 2004

WITNESS MY HAND AND OFFICIAL SEAL OF THE COUNTY OF CHAUTAUQUA

CHAUTAUQUA COUNTY CLERK

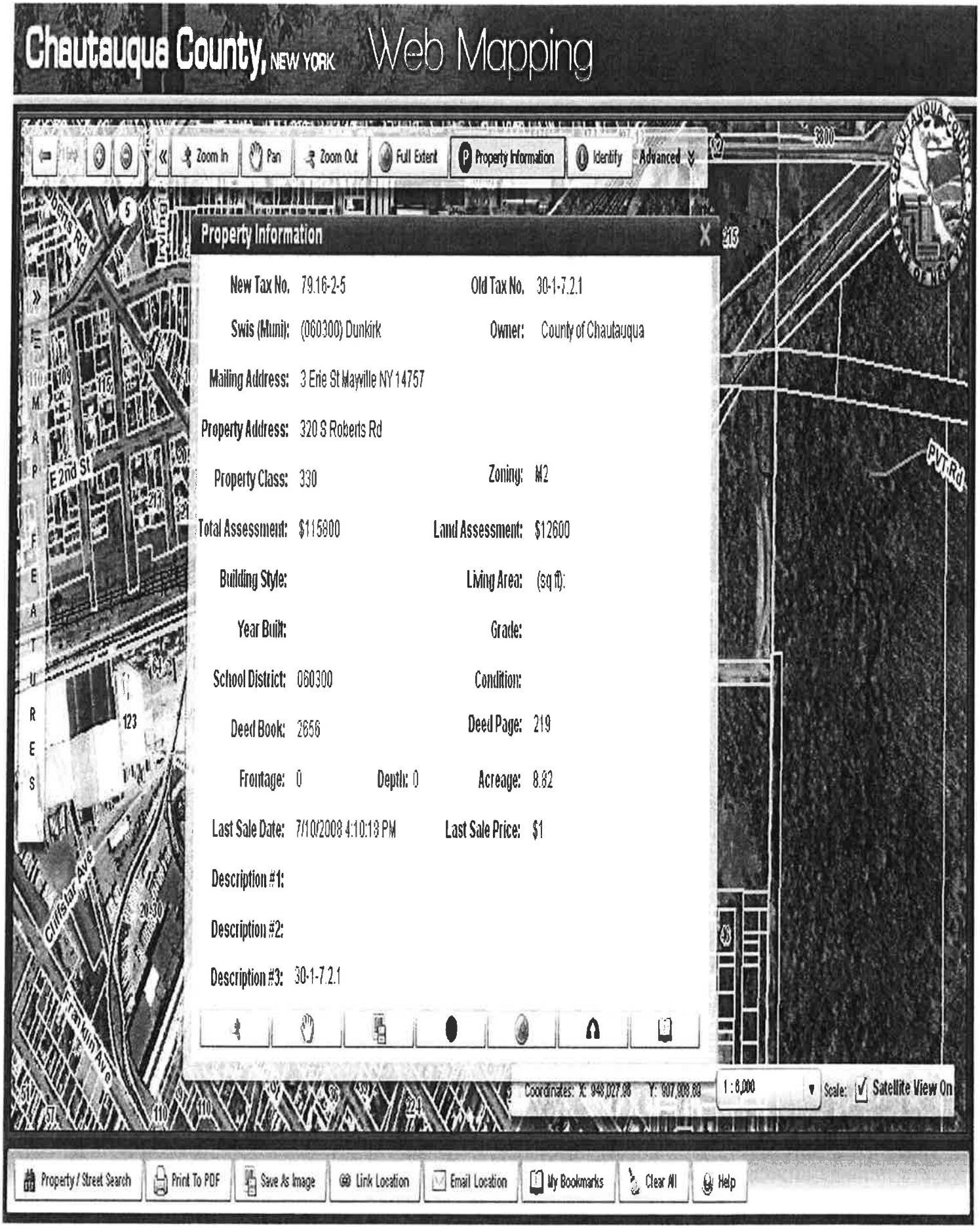


DRAWING OF
BOUNDARY SURVEY
PROPERTY OF
ALUMAX EXTRUSIONS, INC.
City of Dunkirk
Chautauqua County New York
Scale: 1" = 100' January 22, 2001

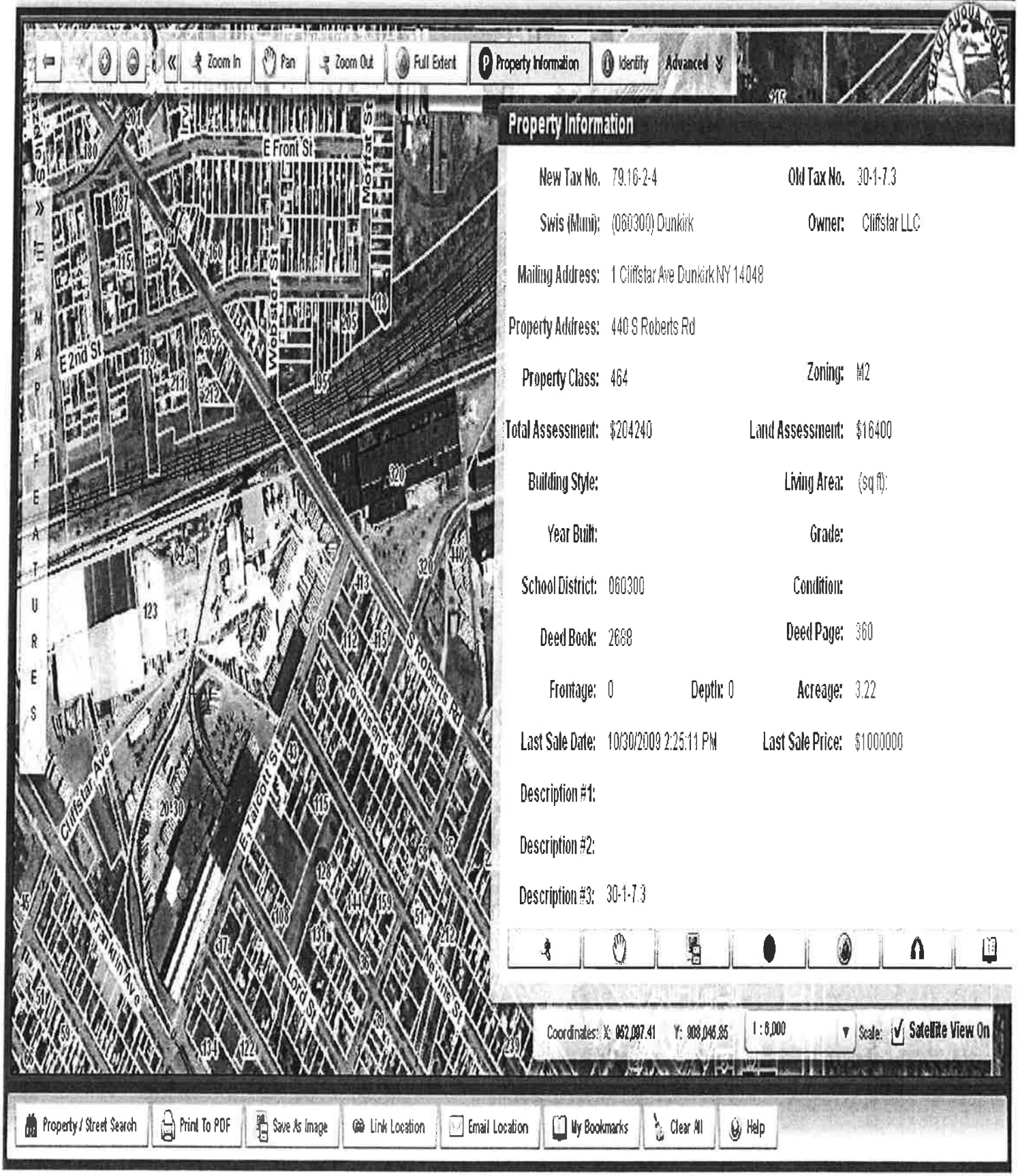
Land Surveyor, NYS Lic. No. 49520 (GROUND SNOW COVERED)

STATE OF NEW YORK
WESLEY J. WOODBURY STRAIGHT
No. 049520
LICENSED LAND SURVEYOR

WOODBURY SURVEYING – OFFICE OF WESLEY J. WOODBURY STRAIGHT, LS 12 E. 3TH STREET DUNKIRK, NY 14048 366-1990


Chautauqua County, NEW YORK Web Mapping
Zoom In
Pan
Zoom Out
Full Extent
Property Information
Identify
Advanced
Property Information
New Tax No. 79.16-2-5
Old Tax No. 30-1-7.2.1
Swis (Muni): (060300) Dunkirk
Owner: County of Chautauqua
Mailing Address: 3 Erie St Mayville NY 14757
Property Address: 320 S Roberts Rd
Property Class: 330
Zoning: M2
Total Assessment: $115800
Land Assessment: $12600
Building Style:
Living Area: (sq ft):
Year Built:
Grade:
School District: 060300
Condition:
Deed Book: 2656
Deed Page: 219
Frontage: 0
Depth: 0
Acreage: 8.82
Last Sale Date: 7/10/2008 4:10:13 PM
Last Sale Price: $1
Description #1:
Description #2:
Description #3: 30-1-7.2.1
MAP FEATURES
Property / Street Search
Print To PDF
Save As Image
Link Location
Email Location
My Bookmarks
Clear All
Help
Satellite View On

Chautauqua County, NEW YORK Web Mapping



Online Assessment Roll System

Created By:

City of Dunkirk, NY

OARS Main Page

- Click to go to GIS map
- Photo of property is available, click to view.

Improvements
Exemptions
Tax Bill

**** Commercial Property ****

PROPERTY INFORMATION

Current Owner Name CLIFFSTAR LLC
Property Address 440 ROBERTS RD
Town Name Dunkirk
Total Assessed Value $204,240
(85.44% of Market Value)
Full Market Value $239,000
Land Assessed Value $16,400
Property Type 464 - Office bldg.
Lot Size Acres: 3.22 Front: 0 Depth: 0
Mailing Address 1 1 CLIFFSTAR AVE
Mailing Address 2
Mailing City, State DUNKIRK, NY
Mailing Zip Code 14048

Section, Block Lot # 79.16-2-4
Neighborhood Code 200
School District 60300
Swiss Code 060300
Parcel Status Active
County Taxable $204,240
Town Taxable $204,240
School Taxable $204,240
Village Taxable $0
Tax Code
Bank Code

PHYSICAL INFORMATION

# of Bedrooms 0
# of Baths 0
# of Fireplaces 0
# of Kitchens 0

HISTORICAL SALE INFORMATION

Owner History	Deed Book	Deed Page	Sale Date	Valid Sale	Sale Price
CLIFFSTAR LLC	2705	426	8/17/2010	NO	$1
Cliffstar Corporation,	2688	360	10/30/2009	NO	$1,000,000
Star Wine LLC,	2587	453	11/16/2005	YES	$400,000

COMMERCIAL INFORMATION

Property Class 464 - Office bldg.
Building Sq. Footage 5,902
Assessment Per Sq. Foot $34.61

Property Use	USED AS	RENTABLE SQ. FT.
	E03 - Profssnl off	5,902
	F04 - Cold storage	5,902

Site No. 1
Bldg No. 1

Actual Year Built 1990
Effective Year Built 0

Site No.	1	**Rent Type**	-
Use No.	1	**Lease Begin**	
Used As	E03 - Profssnl off	**Lease Length**	0 yrs
Acres	3.22	**Total Eff / 1 Bed Sq. Ft.**	
Valuation Dist	0	**Number Of 1 Bed Units**	
Rentable Sq. Ft.	5,902	**Total 2 Bedroom Sq. Ft.**	
Unit Code	-	**Number Of 2 Bed Units**	
Total Number Of Units		**Total 3 Bedroom Sq. Ft.**	
Total Rent	$0	**Number Of 3 Bed Units**	

Site No.	1	**Rent Type**	-
Use No.	2	**Lease Begin**	
Used As	F04 - Cold storage	**Lease Length**	0 yrs
Acres	3.22	**Total Eff / 1 Bed Sq. Ft.**	
Valuation Dist	0	**Number Of 1 Bed Units**	
Rentable Sq. Ft.	5,902	**Total 2 Bedroom Sq. Ft.**	
Unit Code	-	**Number Of 2 Bed Units**	
Total Number Of Units		**Total 3 Bedroom Sq. Ft.**	
Total Rent	$0	**Number Of 3 Bed Units**	

Online Assessment Roll System

Created By:

City of Dunkirk, NY

OARS Main Page

- Click to go to GIS map
- Photo of property is available, click to view.

Improvements
Exemptions
Tax Bill

**** Commercial Property ****

PROPERTY INFORMATION

Current Owner Name COUNTY OF CHAUTAUQUA
Property Address 320 ROBERTS RD
Town Name Dunkirk
Total Assessed Value $115,800
(85.44% of Market Value)
Full Market Value $135,500
Land Assessed Value $12,600
Property Type 330 - Vacant comm
Lot Size Acres: 8.82 Front: 0 Depth: 0
Mailing Address 1 3 ERIE ST
Mailing Address 2
Mailing City, State MAYVILLE, NY
Mailing Zip Code 14757

Section, Block Lot # 79.16-2-5
Neighborhood Code 200
School District 60300
Swiss Code 060300
Parcel Status Active
County Taxable $0
Town Taxable $0
School Taxable $0
Village Taxable $0
Tax Code
Bank Code

PHYSICAL INFORMATION

# of Bedrooms 0
# of Baths 0
# of Fireplaces 0
# of Kitchens 0

HISTORICAL SALE INFORMATION

Owner History	Deed Book	Deed Page	Sale Date	Valid Sale	Sale Price
COUNTY OF CHAUTAUQUA	2656	219	7/10/2008	NO	$1
Alcoa, Inc.,	2560	505	11/3/2004	YES	$700,000

COMMERCIAL INFORMATION

Property Class 330 - Vacant comm
Building Sq. Footage
Assessment Per Sq. Foot $0.00

Property Use	USED AS	RENTABLE SQ. FT.
	F09 - Light mfg	153,993

Site No. 1
Use No. 1
Used As F09 - Light mfg
Acres 8.82

Rent Type
Lease Begin
Lease Length 0 yrs
Total Eff / 1 Bed Sq. Ft.

Valuation Dist	0	**Number Of 1 Bed Units**	
Rentable Sq. Ft.	153,993	**Total 2 Bedroom Sq. Ft.**	
Unit Code	10 - Bays	**Number Of 2 Bed Units**	
Total Number Of Units	12	**Total 3 Bedroom Sq. Ft.**	
Total Rent	$0	**Number Of 3 Bed Units**	

APPENDIX 2

Photographs

East Site boundary facing southwest

North portion of Site from northeast corner facing east

Concrete pads on north portion of Site

Ditch north of Progress Drive on central portion of Site facing southwest

Progress Drive facing southwest

Ditch south of Progress Drive on central portion of Site facing southwest

East portion of Site facing northeast

Southeast portion of Site

West portion of Site

Site from Progress Drive facing northeast

West portion of Site

West Site boundary

West portion of Site

North Site boundary from northwest corner facing east

North central portion of Site

APPENDIX 3

Site Management Periodic Review Report Notice-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. **V00589**

Site Name Closed Alumax Extrusions, Inc. Facility

Site Address: 320 South Roberts Road Zip Code: 14048-
City/Town: Dunkirk (C)
County: Chautauqua
Site Acreage: 12.040

Reporting Period: December 15, 2017 to December 15, 2018

	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/ECs 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. V00589 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
79.16-2-4	Cliffstar Corp.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan O&M Plan

Combined Institutional Control Plan/ Operations and Maintenance Plan (6/23/2004)and Deed Restriction (filed 11/3/2004):

1) Landuse Restiction: Restricted Industrial or Restricted Commercial.
2) Ground water use restriction.
3) Soils Management Plan.
4) Surface Cover System.
5) Ground water monitoring.
6) Sub-Slab venting system.

79.16-2-5	Chautauqua County	Ground Water Use Restriction Landuse Restriction Soil Management Plan Monitoring Plan O&M Plan

Combined Institutional Control Plan/ Operations and Maintenance Plan (6/23/2004)and Deed Restriction (filed 11/3/2004):

1) Landuse Restiction: Restricted Industrial or Restricted Commercial.
2) Ground water use restriction.
3) Soils Management Plan.
4) Surface Cover System.
5) Ground water monitoring.
6) Sub-Slab venting system.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
79.16-2-4	Vapor Mitigation Cover System
79.16-2-5	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 certification;

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

YES	NO
☒	☐

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

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

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

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

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

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

YES	NO
☒	☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. V00589

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 Bradley Bentley (print name) at Chautauqua County Department of Public Facilities 454 North Work St., Falconer, NY 14733 (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

11/7/19
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I DANIEL P. NOLL (print name) at LABELLA ASSOCIATES 300 STATE ST ROCHESTER NY (print business address),

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

STATE OF NEW YORK
DANIEL P. NOLL
No. 081996
LICENSED PROFESSIONAL ENGINEER

D P. NM

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

Stamp (Required for PE)

1/3/19
Date

APPENDIX 4

Groundwater Sampling Logs

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

Well I.D. **AL-2**

Site Location: Alumax Extrusions Site, Dunkirk, NY
Job No. **2160148**
Sample Date: 12/12/2018
LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	14:50	15:00	15:08	15:15	15:23		
Depth of well	17.8'						
Depth to water	4.5						
Well diameter	2"						
Well volume (gallons)	2.1						
Purging device	P.P.						
Containment device	Bucket						
Purge time							
Gallons purged		2.1	2.1	2.1			
Sample device							
Field Parameters							
Temperature	5.8	5.7	5.4	5.1	4.9		
pH measurement	7.44	7.41	7.37	7.39	7.31		
Conductivity (mS/cm)	0.985	0.911	0.923	0.878	0.871		
ORP/Eh (mV)	91.2	90.3	81.2	84.5	86.6		
Turbidity (NTUs)	1.7	13.1	11.7	14.4	13.9		

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. AL-1

Site Location: Alumax Extrusions Site, Dunkirk, NY

Job No. **2160148**

Sample Date: 12/12/2018

LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	15:35	15:42	15:50	15:58	16:05		
Depth of well	19.9'						
Depth to water	6.5						
Well diameter	2"						
Well volume (gallons)	2.1						
Purging device	P.P.						
Containment device	Bucket						
Purge time							
Gallons purged		2.1	2.1	2.1			
Sample device							
Field Parameters							
Temperature	5.9	5.3	4.7	4.8	4.9		
pH measurement	7.48	7.13	7.24	7.33	7.41		
Conductivity (mS/cm)	0.902	0.994	0.863	0.878	0.861		
ORP/Eh (mV)	78.6	79.1	92.3	84.7	82.1		
Turbidity (NTUs)	18.63	21.64	29.61	34.29	33.21		

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. AL-7

Site Location: Alumax Extrusions Site, Dunkirk, NY

Job No. **2160148**

Sample Date: 12/12/2018

LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	16:15	16:23	16:30	16:38	16:45		
Depth of well	11.3'						
Depth to water	4.5						
Well diameter	2"						
Well volume (gallons)	1.1						
Purging device	P.P.						
Containment device	Bucket						
Purge time							
Gallons purged		1.1	1.1	1.1			
Sample device							
Field Parameters							
Temperature	5.8	5.6	5.4	5.1	4.9		
pH measurement	7.91	7.72	7.61	7.54	7.62		
Conductivity (mS/cm)	0.176	0.112	0.188	0.202	0.196		
ORP/Eh (mV)	84.1	90.1	92.2	86.3	85.1		
Turbidity (NTUs)	73.2	101.2	63.2	61.1	60.2		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Turbidity above 50 NTU's

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 5

Laboratory Analytical Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-146686-1
Client Project/Site: Alumax & Roblin Periodic Review Reports

For:
LaBella Associates DPC
300 Pearl Street
Suite 130
Buffalo, New York 14202

Attn: Chris Kibler

Mary Schwartzmyer

Authorized for release by:
12/27/2018 12:36:40 PM
Mary Schwartzmyer, Project Manager I
mary.schwartzmyer@testamericainc.com

Designee for

Melissa Deyo, Project Manager I
(716)504-9874
melissa.deyo@testamericainc.com

Table of Contents

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

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.
F1	MS and/or MSD Recovery is outside acceptance limits.

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Job ID: 480-146686-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-146686-1

Receipt
The samples were received on 12/12/2018 4:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

Receipt Exceptions

The following samples was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): TRIP BLANK (480-146686-13)

GC/MS VOA
Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW12 (480-146686-4), MW07R (480-146686-6) and MW04 (480-146686-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW09R (480-146686-5), EX-MW11R (480-146686-11), (480-146686-A-11 MS) and (480-146686-A-11 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-450577 recovered above the upper control limit for Methylcyclohexane. The samples associated with this CCV were non-detect above the reporting limit (RL) for the affected analyte; therefore, the data have been reported. The following samples are impacted: AL-7 (480-146686-3), MW12 (480-146686-4), MW09R (480-146686-5), MW07R (480-146686-6), MW04 (480-146686-7), MW01 (480-146686-8), MW02R (480-146686-9), EX-MW12 (480-146686-10) and EX-MW11R (480-146686-11).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: AL-1 (480-146686-1), (480-146686-B-1 MS) and (480-146686-B-1 MSD). 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
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

Client Sample ID: AL-1 — Lab Sample ID: 480-146686-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	14	J	20	8.2	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	1100	F1	20	16	ug/L	20		8260C	Total/NA
Cyclohexane	11	J	20	3.6	ug/L	20		8260C	Total/NA
Methylcyclohexane	6.3	J	20	3.2	ug/L	20		8260C	Total/NA
Vinyl chloride	540		20	18	ug/L	20		8260C	Total/NA

Client Sample ID: AL-2 — Lab Sample ID: 480-146686-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.0		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.3		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	3.6		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.34	J	1.0	0.16	ug/L	1		8260C	Total/NA

Client Sample ID: AL-7 — Lab Sample ID: 480-146686-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.2		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	0.54	J	1.0	0.18	ug/L	1		8260C	Total/NA
Vinyl chloride	1.4		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW12 — Lab Sample ID: 480-146686-4

No Detections.

Client Sample ID: MW09R — Lab Sample ID: 480-146686-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	290		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride	23		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: MW07R — Lab Sample ID: 480-146686-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.2	J	4.0	3.2	ug/L	4		8260C	Total/NA
Vinyl chloride	3.6	J	4.0	3.6	ug/L	4		8260C	Total/NA

Client Sample ID: MW04 — Lab Sample ID: 480-146686-7

No Detections.

Client Sample ID: MW01 — Lab Sample ID: 480-146686-8

No Detections.

Client Sample ID: MW02R — Lab Sample ID: 480-146686-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.2		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	20		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	3.6		1.0	0.18	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: LaBella Associates DPC
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

Client Sample ID: MW02R (Continued) — Lab Sample ID: 480-146686-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	0.70	J	1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	49		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: EX-MW12 — Lab Sample ID: 480-146686-10

No Detections.

Client Sample ID: EX-MW11R — Lab Sample ID: 480-146686-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	960		20	16	ug/L	20		8260C	Total/NA
Cyclohexane	19	J	20	3.6	ug/L	20		8260C	Total/NA
Methylcyclohexane	7.3	J	20	3.2	ug/L	20		8260C	Total/NA
Trichloroethene	10	J	20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride	510		20	18	ug/L	20		8260C	Total/NA

Client Sample ID: FIELD DUPLICATE — Lab Sample ID: 480-146686-12

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-146686-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client: LaBella Associates DPC
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

Client Sample ID: AL-1
Date Collected: 12/12/18 16:05
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			12/13/18 10:43	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			12/13/18 10:43	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			12/13/18 10:43	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			12/13/18 10:43	20
1,1-Dichloroethane	ND		20	7.6	ug/L			12/13/18 10:43	20
1,1-Dichloroethene	ND		20	5.8	ug/L			12/13/18 10:43	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			12/13/18 10:43	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			12/13/18 10:43	20
1,2-Dichlorobenzene	ND		20	16	ug/L			12/13/18 10:43	20
1,2-Dichloroethane	ND		20	4.2	ug/L			12/13/18 10:43	20
1,2-Dichloropropane	ND		20	14	ug/L			12/13/18 10:43	20
1,3-Dichlorobenzene	ND		20	16	ug/L			12/13/18 10:43	20
1,4-Dichlorobenzene	ND		20	17	ug/L			12/13/18 10:43	20
2-Butanone (MEK)	ND		200	26	ug/L			12/13/18 10:43	20
2-Hexanone	ND		100	25	ug/L			12/13/18 10:43	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			12/13/18 10:43	20
Acetone	ND		200	60	ug/L			12/13/18 10:43	20
Benzene	**14**	**J**	20	8.2	ug/L			12/13/18 10:43	20
Bromodichloromethane	ND		20	7.8	ug/L			12/13/18 10:43	20
Bromoform	ND		20	5.2	ug/L			12/13/18 10:43	20
Bromomethane	ND		20	14	ug/L			12/13/18 10:43	20
Carbon disulfide	ND		20	3.8	ug/L			12/13/18 10:43	20
Carbon tetrachloride	ND		20	5.4	ug/L			12/13/18 10:43	20
Chlorobenzene	ND		20	15	ug/L			12/13/18 10:43	20
Dibromochloromethane	ND		20	6.4	ug/L			12/13/18 10:43	20
Chloroethane	ND		20	6.4	ug/L			12/13/18 10:43	20
Chloroform	ND		20	6.8	ug/L			12/13/18 10:43	20
Chloromethane	ND		20	7.0	ug/L			12/13/18 10:43	20
cis-1,2-Dichloroethene	**1100**	**F1**	20	16	ug/L			12/13/18 10:43	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			12/13/18 10:43	20
Cyclohexane	**11**	**J**	20	3.6	ug/L			12/13/18 10:43	20
Dichlorodifluoromethane	ND		20	14	ug/L			12/13/18 10:43	20
Ethylbenzene	ND		20	15	ug/L			12/13/18 10:43	20
1,2-Dibromoethane	ND		20	15	ug/L			12/13/18 10:43	20
Isopropylbenzene	ND		20	16	ug/L			12/13/18 10:43	20
Methyl acetate	ND		50	26	ug/L			12/13/18 10:43	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			12/13/18 10:43	20
Methylcyclohexane	**6.3**	**J**	20	3.2	ug/L			12/13/18 10:43	20
Methylene Chloride	ND		20	8.8	ug/L			12/13/18 10:43	20
Styrene	ND		20	15	ug/L			12/13/18 10:43	20
Tetrachloroethene	ND		20	7.2	ug/L			12/13/18 10:43	20
Toluene	ND		20	10	ug/L			12/13/18 10:43	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			12/13/18 10:43	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			12/13/18 10:43	20
Trichloroethene	ND		20	9.2	ug/L			12/13/18 10:43	20
Trichlorofluoromethane	ND		20	18	ug/L			12/13/18 10:43	20
Vinyl chloride	**540**		20	18	ug/L			12/13/18 10:43	20
Xylenes, Total	ND		40	13	ug/L			12/13/18 10:43	20

Client Sample ID: AL-1

Date Collected: 12/12/18 16:05
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/13/18 10:43*	*20*
1,2-Dichloroethane-d4 (Surr)	*88*		*77 - 120*		*12/13/18 10:43*	*20*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*12/13/18 10:43*	*20*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*12/13/18 10:43*	*20*

Client Sample ID: AL-2

Date Collected: 12/12/18 15:23
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-2
Matrix: Water

Method: 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			12/13/18 11:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/13/18 11:10	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/13/18 11:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/13/18 11:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/13/18 11:10	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/13/18 11:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/13/18 11:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/13/18 11:10	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/13/18 11:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/13/18 11:10	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/13/18 11:10	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/13/18 11:10	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/13/18 11:10	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/13/18 11:10	1
2-Hexanone	ND		5.0	1.2	ug/L			12/13/18 11:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/13/18 11:10	1
Acetone	ND		10	3.0	ug/L			12/13/18 11:10	1
Benzene	**7.0**		1.0	0.41	ug/L			12/13/18 11:10	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/13/18 11:10	1
Bromoform	ND		1.0	0.26	ug/L			12/13/18 11:10	1
Bromomethane	ND		1.0	0.69	ug/L			12/13/18 11:10	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/13/18 11:10	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/13/18 11:10	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/13/18 11:10	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/13/18 11:10	1
Chloroethane	ND		1.0	0.32	ug/L			12/13/18 11:10	1
Chloroform	ND		1.0	0.34	ug/L			12/13/18 11:10	1
Chloromethane	ND		1.0	0.35	ug/L			12/13/18 11:10	1
cis-1,2-Dichloroethene	**4.3**		1.0	0.81	ug/L			12/13/18 11:10	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/13/18 11:10	1
Cyclohexane	**3.6**		1.0	0.18	ug/L			12/13/18 11:10	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/13/18 11:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/13/18 11:10	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/13/18 11:10	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/13/18 11:10	1
Methyl acetate	ND		2.5	1.3	ug/L			12/13/18 11:10	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/13/18 11:10	1
Methylcyclohexane	**0.34**	**J**	1.0	0.16	ug/L			12/13/18 11:10	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/13/18 11:10	1

Client Sample ID: AL-2

Date Collected: 12/12/18 15:23
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			12/13/18 11:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/13/18 11:10	1
Toluene	ND		1.0	0.51	ug/L			12/13/18 11:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/13/18 11:10	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/13/18 11:10	1
Trichloroethene	ND		1.0	0.46	ug/L			12/13/18 11:10	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/13/18 11:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/13/18 11:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/13/18 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/13/18 11:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*		*12/13/18 11:10*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*12/13/18 11:10*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*12/13/18 11:10*	*1*

Client Sample ID: AL-7

Date Collected: 12/12/18 16:45
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-3

Matrix: Water

Method: 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			12/13/18 01:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/13/18 01:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/13/18 01:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/13/18 01:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/13/18 01:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/13/18 01:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/13/18 01:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/13/18 01:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/13/18 01:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/13/18 01:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/13/18 01:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/13/18 01:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/13/18 01:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/13/18 01:43	1
2-Hexanone	ND		5.0	1.2	ug/L			12/13/18 01:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/13/18 01:43	1
Acetone	ND		10	3.0	ug/L			12/13/18 01:43	1
Benzene	ND		1.0	0.41	ug/L			12/13/18 01:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/13/18 01:43	1
Bromoform	ND		1.0	0.26	ug/L			12/13/18 01:43	1
Bromomethane	ND		1.0	0.69	ug/L			12/13/18 01:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/13/18 01:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/13/18 01:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/13/18 01:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/13/18 01:43	1
Chloroethane	ND		1.0	0.32	ug/L			12/13/18 01:43	1
Chloroform	ND		1.0	0.34	ug/L			12/13/18 01:43	1
Chloromethane	ND		1.0	0.35	ug/L			12/13/18 01:43	1

Client Sample ID: AL-7

Date Collected: 12/12/18 16:45
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**7.2**		1.0	0.81	ug/L			12/13/18 01:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/13/18 01:43	1
Cyclohexane	**0.54**	**J**	1.0	0.18	ug/L			12/13/18 01:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/13/18 01:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/13/18 01:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/13/18 01:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/13/18 01:43	1
Methyl acetate	ND		2.5	1.3	ug/L			12/13/18 01:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/13/18 01:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/13/18 01:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/13/18 01:43	1
Styrene	ND		1.0	0.73	ug/L			12/13/18 01:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/13/18 01:43	1
Toluene	ND		1.0	0.51	ug/L			12/13/18 01:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/13/18 01:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/13/18 01:43	1
Trichloroethene	ND		1.0	0.46	ug/L			12/13/18 01:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/13/18 01:43	1
Vinyl chloride	**1.4**		1.0	0.90	ug/L			12/13/18 01:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/13/18 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/13/18 01:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*12/13/18 01:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/13/18 01:43*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*12/13/18 01:43*	*1*

Client Sample ID: MW12

Date Collected: 12/12/18 08:40
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			12/13/18 02:10	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			12/13/18 02:10	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			12/13/18 02:10	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			12/13/18 02:10	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			12/13/18 02:10	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			12/13/18 02:10	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			12/13/18 02:10	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			12/13/18 02:10	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			12/13/18 02:10	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			12/13/18 02:10	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			12/13/18 02:10	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			12/13/18 02:10	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			12/13/18 02:10	2
2-Butanone (MEK)	ND		20	2.6	ug/L			12/13/18 02:10	2
2-Hexanone	ND		10	2.5	ug/L			12/13/18 02:10	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			12/13/18 02:10	2
Acetone	ND		20	6.0	ug/L			12/13/18 02:10	2

Client Sample ID: MW12

Date Collected: 12/12/18 08:40
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	0.82	ug/L			12/13/18 02:10	2
Bromodichloromethane	ND		2.0	0.78	ug/L			12/13/18 02:10	2
Bromoform	ND		2.0	0.52	ug/L			12/13/18 02:10	2
Bromomethane	ND		2.0	1.4	ug/L			12/13/18 02:10	2
Carbon disulfide	ND		2.0	0.38	ug/L			12/13/18 02:10	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			12/13/18 02:10	2
Chlorobenzene	ND		2.0	1.5	ug/L			12/13/18 02:10	2
Dibromochloromethane	ND		2.0	0.64	ug/L			12/13/18 02:10	2
Chloroethane	ND		2.0	0.64	ug/L			12/13/18 02:10	2
Chloroform	ND		2.0	0.68	ug/L			12/13/18 02:10	2
Chloromethane	ND		2.0	0.70	ug/L			12/13/18 02:10	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			12/13/18 02:10	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			12/13/18 02:10	2
Cyclohexane	ND		2.0	0.36	ug/L			12/13/18 02:10	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			12/13/18 02:10	2
Ethylbenzene	ND		2.0	1.5	ug/L			12/13/18 02:10	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			12/13/18 02:10	2
Isopropylbenzene	ND		2.0	1.6	ug/L			12/13/18 02:10	2
Methyl acetate	ND		5.0	2.6	ug/L			12/13/18 02:10	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			12/13/18 02:10	2
Methylcyclohexane	ND		2.0	0.32	ug/L			12/13/18 02:10	2
Methylene Chloride	ND		2.0	0.88	ug/L			12/13/18 02:10	2
Styrene	ND		2.0	1.5	ug/L			12/13/18 02:10	2
Tetrachloroethene	ND		2.0	0.72	ug/L			12/13/18 02:10	2
Toluene	ND		2.0	1.0	ug/L			12/13/18 02:10	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			12/13/18 02:10	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			12/13/18 02:10	2
Trichloroethene	ND		2.0	0.92	ug/L			12/13/18 02:10	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			12/13/18 02:10	2
Vinyl chloride	ND		2.0	1.8	ug/L			12/13/18 02:10	2
Xylenes, Total	ND		4.0	1.3	ug/L			12/13/18 02:10	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/13/18 02:10*	*2*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*12/13/18 02:10*	*2*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*12/13/18 02:10*	*2*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/13/18 02:10*	*2*

Client Sample ID: MW09R

Date Collected: 12/12/18 09:42
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-5

Matrix: Water

Method: 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			12/13/18 02:37	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			12/13/18 02:37	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			12/13/18 02:37	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			12/13/18 02:37	10
1,1-Dichloroethane	ND		10	3.8	ug/L			12/13/18 02:37	10
1,1-Dichloroethene	ND		10	2.9	ug/L			12/13/18 02:37	10

Client Sample ID: MW09R
Date Collected: 12/12/18 09:42
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			12/13/18 02:37	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			12/13/18 02:37	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			12/13/18 02:37	10
1,2-Dichloroethane	ND		10	2.1	ug/L			12/13/18 02:37	10
1,2-Dichloropropane	ND		10	7.2	ug/L			12/13/18 02:37	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			12/13/18 02:37	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			12/13/18 02:37	10
2-Butanone (MEK)	ND		100	13	ug/L			12/13/18 02:37	10
2-Hexanone	ND		50	12	ug/L			12/13/18 02:37	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			12/13/18 02:37	10
Acetone	ND		100	30	ug/L			12/13/18 02:37	10
Benzene	ND		10	4.1	ug/L			12/13/18 02:37	10
Bromodichloromethane	ND		10	3.9	ug/L			12/13/18 02:37	10
Bromoform	ND		10	2.6	ug/L			12/13/18 02:37	10
Bromomethane	ND		10	6.9	ug/L			12/13/18 02:37	10
Carbon disulfide	ND		10	1.9	ug/L			12/13/18 02:37	10
Carbon tetrachloride	ND		10	2.7	ug/L			12/13/18 02:37	10
Chlorobenzene	ND		10	7.5	ug/L			12/13/18 02:37	10
Dibromochloromethane	ND		10	3.2	ug/L			12/13/18 02:37	10
Chloroethane	ND		10	3.2	ug/L			12/13/18 02:37	10
Chloroform	ND		10	3.4	ug/L			12/13/18 02:37	10
Chloromethane	ND		10	3.5	ug/L			12/13/18 02:37	10
cis-1,2-Dichloroethene	**290**		10	8.1	ug/L			12/13/18 02:37	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			12/13/18 02:37	10
Cyclohexane	ND		10	1.8	ug/L			12/13/18 02:37	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			12/13/18 02:37	10
Ethylbenzene	ND		10	7.4	ug/L			12/13/18 02:37	10
1,2-Dibromoethane	ND		10	7.3	ug/L			12/13/18 02:37	10
Isopropylbenzene	ND		10	7.9	ug/L			12/13/18 02:37	10
Methyl acetate	ND		25	13	ug/L			12/13/18 02:37	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			12/13/18 02:37	10
Methylcyclohexane	ND		10	1.6	ug/L			12/13/18 02:37	10
Methylene Chloride	ND		10	4.4	ug/L			12/13/18 02:37	10
Styrene	ND		10	7.3	ug/L			12/13/18 02:37	10
Tetrachloroethene	ND		10	3.6	ug/L			12/13/18 02:37	10
Toluene	ND		10	5.1	ug/L			12/13/18 02:37	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			12/13/18 02:37	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			12/13/18 02:37	10
Trichloroethene	ND		10	4.6	ug/L			12/13/18 02:37	10
Trichlorofluoromethane	ND		10	8.8	ug/L			12/13/18 02:37	10
Vinyl chloride	**23**		10	9.0	ug/L			12/13/18 02:37	10
Xylenes, Total	ND		20	6.6	ug/L			12/13/18 02:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/13/18 02:37*	*10*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*12/13/18 02:37*	*10*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*12/13/18 02:37*	*10*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*12/13/18 02:37*	*10*

Client Sample ID: MW07R

Date Collected: 12/12/18 10:30
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			12/13/18 03:04	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			12/13/18 03:04	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			12/13/18 03:04	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			12/13/18 03:04	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			12/13/18 03:04	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			12/13/18 03:04	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			12/13/18 03:04	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			12/13/18 03:04	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			12/13/18 03:04	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			12/13/18 03:04	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			12/13/18 03:04	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			12/13/18 03:04	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			12/13/18 03:04	4
2-Butanone (MEK)	ND		40	5.3	ug/L			12/13/18 03:04	4
2-Hexanone	ND		20	5.0	ug/L			12/13/18 03:04	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			12/13/18 03:04	4
Acetone	ND		40	12	ug/L			12/13/18 03:04	4
Benzene	ND		4.0	1.6	ug/L			12/13/18 03:04	4
Bromodichloromethane	ND		4.0	1.6	ug/L			12/13/18 03:04	4
Bromoform	ND		4.0	1.0	ug/L			12/13/18 03:04	4
Bromomethane	ND		4.0	2.8	ug/L			12/13/18 03:04	4
Carbon disulfide	ND		4.0	0.76	ug/L			12/13/18 03:04	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			12/13/18 03:04	4
Chlorobenzene	ND		4.0	3.0	ug/L			12/13/18 03:04	4
Dibromochloromethane	ND		4.0	1.3	ug/L			12/13/18 03:04	4
Chloroethane	ND		4.0	1.3	ug/L			12/13/18 03:04	4
Chloroform	ND		4.0	1.4	ug/L			12/13/18 03:04	4
Chloromethane	ND		4.0	1.4	ug/L			12/13/18 03:04	4
cis-1,2-Dichloroethene	**3.2**	**J**	4.0	3.2	ug/L			12/13/18 03:04	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			12/13/18 03:04	4
Cyclohexane	ND		4.0	0.72	ug/L			12/13/18 03:04	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			12/13/18 03:04	4
Ethylbenzene	ND		4.0	3.0	ug/L			12/13/18 03:04	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			12/13/18 03:04	4
Isopropylbenzene	ND		4.0	3.2	ug/L			12/13/18 03:04	4
Methyl acetate	ND		10	5.2	ug/L			12/13/18 03:04	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			12/13/18 03:04	4
Methylcyclohexane	ND		4.0	0.64	ug/L			12/13/18 03:04	4
Methylene Chloride	ND		4.0	1.8	ug/L			12/13/18 03:04	4
Styrene	ND		4.0	2.9	ug/L			12/13/18 03:04	4
Tetrachloroethene	ND		4.0	1.4	ug/L			12/13/18 03:04	4
Toluene	ND		4.0	2.0	ug/L			12/13/18 03:04	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			12/13/18 03:04	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			12/13/18 03:04	4
Trichloroethene	ND		4.0	1.8	ug/L			12/13/18 03:04	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			12/13/18 03:04	4
Vinyl chloride	**3.6**	**J**	4.0	3.6	ug/L			12/13/18 03:04	4
Xylenes, Total	ND		8.0	2.6	ug/L			12/13/18 03:04	4

Client Sample ID: MW07R

Date Collected: 12/12/18 10:30
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/13/18 03:04*	*4*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*12/13/18 03:04*	*4*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*12/13/18 03:04*	*4*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*12/13/18 03:04*	*4*

Client Sample ID: MW04

Date Collected: 12/12/18 11:30
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			12/13/18 03:32	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			12/13/18 03:32	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			12/13/18 03:32	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			12/13/18 03:32	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			12/13/18 03:32	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			12/13/18 03:32	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			12/13/18 03:32	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			12/13/18 03:32	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			12/13/18 03:32	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			12/13/18 03:32	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			12/13/18 03:32	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			12/13/18 03:32	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			12/13/18 03:32	4
2-Butanone (MEK)	ND		40	5.3	ug/L			12/13/18 03:32	4
2-Hexanone	ND		20	5.0	ug/L			12/13/18 03:32	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			12/13/18 03:32	4
Acetone	ND		40	12	ug/L			12/13/18 03:32	4
Benzene	ND		4.0	1.6	ug/L			12/13/18 03:32	4
Bromodichloromethane	ND		4.0	1.6	ug/L			12/13/18 03:32	4
Bromoform	ND		4.0	1.0	ug/L			12/13/18 03:32	4
Bromomethane	ND		4.0	2.8	ug/L			12/13/18 03:32	4
Carbon disulfide	ND		4.0	0.76	ug/L			12/13/18 03:32	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			12/13/18 03:32	4
Chlorobenzene	ND		4.0	3.0	ug/L			12/13/18 03:32	4
Dibromochloromethane	ND		4.0	1.3	ug/L			12/13/18 03:32	4
Chloroethane	ND		4.0	1.3	ug/L			12/13/18 03:32	4
Chloroform	ND		4.0	1.4	ug/L			12/13/18 03:32	4
Chloromethane	ND		4.0	1.4	ug/L			12/13/18 03:32	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			12/13/18 03:32	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			12/13/18 03:32	4
Cyclohexane	ND		4.0	0.72	ug/L			12/13/18 03:32	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			12/13/18 03:32	4
Ethylbenzene	ND		4.0	3.0	ug/L			12/13/18 03:32	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			12/13/18 03:32	4
Isopropylbenzene	ND		4.0	3.2	ug/L			12/13/18 03:32	4
Methyl acetate	ND		10	5.2	ug/L			12/13/18 03:32	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			12/13/18 03:32	4
Methylcyclohexane	ND		4.0	0.64	ug/L			12/13/18 03:32	4
Methylene Chloride	ND		4.0	1.8	ug/L			12/13/18 03:32	4

Client Sample ID: MW04

Date Collected: 12/12/18 11:30
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		4.0	2.9	ug/L			12/13/18 03:32	4
Tetrachloroethene	ND		4.0	1.4	ug/L			12/13/18 03:32	4
Toluene	ND		4.0	2.0	ug/L			12/13/18 03:32	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			12/13/18 03:32	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			12/13/18 03:32	4
Trichloroethene	ND		4.0	1.8	ug/L			12/13/18 03:32	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			12/13/18 03:32	4
Vinyl chloride	ND		4.0	3.6	ug/L			12/13/18 03:32	4
Xylenes, Total	ND		8.0	2.6	ug/L			12/13/18 03:32	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/13/18 03:32*	*4*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*12/13/18 03:32*	*4*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*12/13/18 03:32*	*4*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*12/13/18 03:32*	*4*

Client Sample ID: MW01

Date Collected: 12/12/18 12:10
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-8

Matrix: Water

Method: 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			12/13/18 03:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/13/18 03:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/13/18 03:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/13/18 03:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/13/18 03:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/13/18 03:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/13/18 03:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/13/18 03:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/13/18 03:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/13/18 03:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/13/18 03:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/13/18 03:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/13/18 03:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/13/18 03:59	1
2-Hexanone	ND		5.0	1.2	ug/L			12/13/18 03:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/13/18 03:59	1
Acetone	ND		10	3.0	ug/L			12/13/18 03:59	1
Benzene	ND		1.0	0.41	ug/L			12/13/18 03:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/13/18 03:59	1
Bromoform	ND		1.0	0.26	ug/L			12/13/18 03:59	1
Bromomethane	ND		1.0	0.69	ug/L			12/13/18 03:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/13/18 03:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/13/18 03:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/13/18 03:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/13/18 03:59	1
Chloroethane	ND		1.0	0.32	ug/L			12/13/18 03:59	1
Chloroform	ND		1.0	0.34	ug/L			12/13/18 03:59	1
Chloromethane	ND		1.0	0.35	ug/L			12/13/18 03:59	1

Client Sample ID: MW01

Date Collected: 12/12/18 12:10
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/13/18 03:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/13/18 03:59	1
Cyclohexane	ND		1.0	0.18	ug/L			12/13/18 03:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/13/18 03:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/13/18 03:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/13/18 03:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/13/18 03:59	1
Methyl acetate	ND		2.5	1.3	ug/L			12/13/18 03:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/13/18 03:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/13/18 03:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/13/18 03:59	1
Styrene	ND		1.0	0.73	ug/L			12/13/18 03:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/13/18 03:59	1
Toluene	ND		1.0	0.51	ug/L			12/13/18 03:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/13/18 03:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/13/18 03:59	1
Trichloroethene	ND		1.0	0.46	ug/L			12/13/18 03:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/13/18 03:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/13/18 03:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/13/18 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/13/18 03:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*12/13/18 03:59*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*12/13/18 03:59*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*12/13/18 03:59*	*1*

Client Sample ID: MW02R

Date Collected: 12/12/18 13:52
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-9

Matrix: Water

Method: 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			12/13/18 04:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/13/18 04:27	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/13/18 04:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/13/18 04:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/13/18 04:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/13/18 04:27	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/13/18 04:27	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/13/18 04:27	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/13/18 04:27	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/13/18 04:27	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/13/18 04:27	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/13/18 04:27	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/13/18 04:27	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/13/18 04:27	1
2-Hexanone	ND		5.0	1.2	ug/L			12/13/18 04:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/13/18 04:27	1
Acetone	ND		10	3.0	ug/L			12/13/18 04:27	1

Client Sample ID: MW02R

Date Collected: 12/12/18 13:52
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.2**		1.0	0.41	ug/L			12/13/18 04:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/13/18 04:27	1
Bromoform	ND		1.0	0.26	ug/L			12/13/18 04:27	1
Bromomethane	ND		1.0	0.69	ug/L			12/13/18 04:27	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/13/18 04:27	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/13/18 04:27	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/13/18 04:27	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/13/18 04:27	1
Chloroethane	ND		1.0	0.32	ug/L			12/13/18 04:27	1
Chloroform	ND		1.0	0.34	ug/L			12/13/18 04:27	1
Chloromethane	ND		1.0	0.35	ug/L			12/13/18 04:27	1
cis-1,2-Dichloroethene	**20**		1.0	0.81	ug/L			12/13/18 04:27	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/13/18 04:27	1
Cyclohexane	**3.6**		1.0	0.18	ug/L			12/13/18 04:27	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/13/18 04:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/13/18 04:27	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/13/18 04:27	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/13/18 04:27	1
Methyl acetate	ND		2.5	1.3	ug/L			12/13/18 04:27	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/13/18 04:27	1
Methylcyclohexane	**0.70**	**J**	1.0	0.16	ug/L			12/13/18 04:27	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/13/18 04:27	1
Styrene	ND		1.0	0.73	ug/L			12/13/18 04:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/13/18 04:27	1
Toluene	ND		1.0	0.51	ug/L			12/13/18 04:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/13/18 04:27	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/13/18 04:27	1
Trichloroethene	ND		1.0	0.46	ug/L			12/13/18 04:27	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/13/18 04:27	1
Vinyl chloride	**49**		1.0	0.90	ug/L			12/13/18 04:27	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/13/18 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/13/18 04:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*12/13/18 04:27*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*12/13/18 04:27*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*12/13/18 04:27*	*1*

Client Sample ID: EX-MW12

Date Collected: 12/12/18 12:45
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-10

Matrix: Water

Method: 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			12/13/18 04:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/13/18 04:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/13/18 04:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/13/18 04:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/13/18 04:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/13/18 04:54	1

Client Sample ID: EX-MW12
Date Collected: 12/12/18 12:45
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/13/18 04:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/13/18 04:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/13/18 04:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/13/18 04:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/13/18 04:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/13/18 04:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/13/18 04:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/13/18 04:54	1
2-Hexanone	ND		5.0	1.2	ug/L			12/13/18 04:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/13/18 04:54	1
Acetone	ND		10	3.0	ug/L			12/13/18 04:54	1
Benzene	ND		1.0	0.41	ug/L			12/13/18 04:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/13/18 04:54	1
Bromoform	ND		1.0	0.26	ug/L			12/13/18 04:54	1
Bromomethane	ND		1.0	0.69	ug/L			12/13/18 04:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/13/18 04:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/13/18 04:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/13/18 04:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/13/18 04:54	1
Chloroethane	ND		1.0	0.32	ug/L			12/13/18 04:54	1
Chloroform	ND		1.0	0.34	ug/L			12/13/18 04:54	1
Chloromethane	ND		1.0	0.35	ug/L			12/13/18 04:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/13/18 04:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/13/18 04:54	1
Cyclohexane	ND		1.0	0.18	ug/L			12/13/18 04:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/13/18 04:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/13/18 04:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/13/18 04:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/13/18 04:54	1
Methyl acetate	ND		2.5	1.3	ug/L			12/13/18 04:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/13/18 04:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/13/18 04:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/13/18 04:54	1
Styrene	ND		1.0	0.73	ug/L			12/13/18 04:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/13/18 04:54	1
Toluene	ND		1.0	0.51	ug/L			12/13/18 04:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/13/18 04:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/13/18 04:54	1
Trichloroethene	ND		1.0	0.46	ug/L			12/13/18 04:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/13/18 04:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/13/18 04:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/13/18 04:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/13/18 04:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*12/13/18 04:54*	*1*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*		*12/13/18 04:54*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*12/13/18 04:54*	*1*

Client Sample ID: EX-MW11R

Date Collected: 12/12/18 14:35
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			12/13/18 05:22	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			12/13/18 05:22	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			12/13/18 05:22	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			12/13/18 05:22	20
1,1-Dichloroethane	ND		20	7.6	ug/L			12/13/18 05:22	20
1,1-Dichloroethene	ND		20	5.8	ug/L			12/13/18 05:22	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			12/13/18 05:22	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			12/13/18 05:22	20
1,2-Dichlorobenzene	ND		20	16	ug/L			12/13/18 05:22	20
1,2-Dichloroethane	ND		20	4.2	ug/L			12/13/18 05:22	20
1,2-Dichloropropane	ND		20	14	ug/L			12/13/18 05:22	20
1,3-Dichlorobenzene	ND		20	16	ug/L			12/13/18 05:22	20
1,4-Dichlorobenzene	ND		20	17	ug/L			12/13/18 05:22	20
2-Butanone (MEK)	ND		200	26	ug/L			12/13/18 05:22	20
2-Hexanone	ND		100	25	ug/L			12/13/18 05:22	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			12/13/18 05:22	20
Acetone	ND		200	60	ug/L			12/13/18 05:22	20
Benzene	ND		20	8.2	ug/L			12/13/18 05:22	20
Bromodichloromethane	ND		20	7.8	ug/L			12/13/18 05:22	20
Bromoform	ND		20	5.2	ug/L			12/13/18 05:22	20
Bromomethane	ND		20	14	ug/L			12/13/18 05:22	20
Carbon disulfide	ND		20	3.8	ug/L			12/13/18 05:22	20
Carbon tetrachloride	ND		20	5.4	ug/L			12/13/18 05:22	20
Chlorobenzene	ND		20	15	ug/L			12/13/18 05:22	20
Dibromochloromethane	ND		20	6.4	ug/L			12/13/18 05:22	20
Chloroethane	ND		20	6.4	ug/L			12/13/18 05:22	20
Chloroform	ND		20	6.8	ug/L			12/13/18 05:22	20
Chloromethane	ND		20	7.0	ug/L			12/13/18 05:22	20
cis-1,2-Dichloroethene	**960**		20	16	ug/L			12/13/18 05:22	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			12/13/18 05:22	20
Cyclohexane	**19**	**J**	20	3.6	ug/L			12/13/18 05:22	20
Dichlorodifluoromethane	ND		20	14	ug/L			12/13/18 05:22	20
Ethylbenzene	ND		20	15	ug/L			12/13/18 05:22	20
1,2-Dibromoethane	ND		20	15	ug/L			12/13/18 05:22	20
Isopropylbenzene	ND		20	16	ug/L			12/13/18 05:22	20
Methyl acetate	ND		50	26	ug/L			12/13/18 05:22	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			12/13/18 05:22	20
Methylcyclohexane	**7.3**	**J**	20	3.2	ug/L			12/13/18 05:22	20
Methylene Chloride	ND		20	8.8	ug/L			12/13/18 05:22	20
Styrene	ND		20	15	ug/L			12/13/18 05:22	20
Tetrachloroethene	ND		20	7.2	ug/L			12/13/18 05:22	20
Toluene	ND		20	10	ug/L			12/13/18 05:22	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			12/13/18 05:22	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			12/13/18 05:22	20
Trichloroethene	**10**	**J**	20	9.2	ug/L			12/13/18 05:22	20
Trichlorofluoromethane	ND		20	18	ug/L			12/13/18 05:22	20
Vinyl chloride	**510**		20	18	ug/L			12/13/18 05:22	20
Xylenes, Total	ND		40	13	ug/L			12/13/18 05:22	20

Client Sample ID: EX-MW11R

Date Collected: 12/12/18 14:35
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-11

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/13/18 05:22*	*20*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*12/13/18 05:22*	*20*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*12/13/18 05:22*	*20*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*12/13/18 05:22*	*20*

Client Sample ID: FIELD DUPLICATE

Date Collected: 12/12/18 08:40
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-12

Matrix: Water

Method: 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			12/13/18 11:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/13/18 11:37	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/13/18 11:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/13/18 11:37	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/13/18 11:37	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/13/18 11:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/13/18 11:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/13/18 11:37	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/13/18 11:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/13/18 11:37	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/13/18 11:37	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/13/18 11:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/13/18 11:37	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/13/18 11:37	1
2-Hexanone	ND		5.0	1.2	ug/L			12/13/18 11:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/13/18 11:37	1
Acetone	ND		10	3.0	ug/L			12/13/18 11:37	1
Benzene	ND		1.0	0.41	ug/L			12/13/18 11:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/13/18 11:37	1
Bromoform	ND		1.0	0.26	ug/L			12/13/18 11:37	1
Bromomethane	ND		1.0	0.69	ug/L			12/13/18 11:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/13/18 11:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/13/18 11:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/13/18 11:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/13/18 11:37	1
Chloroethane	ND		1.0	0.32	ug/L			12/13/18 11:37	1
Chloroform	ND		1.0	0.34	ug/L			12/13/18 11:37	1
Chloromethane	ND		1.0	0.35	ug/L			12/13/18 11:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/13/18 11:37	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/13/18 11:37	1
Cyclohexane	ND		1.0	0.18	ug/L			12/13/18 11:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/13/18 11:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/13/18 11:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/13/18 11:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/13/18 11:37	1
Methyl acetate	ND		2.5	1.3	ug/L			12/13/18 11:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/13/18 11:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/13/18 11:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/13/18 11:37	1

Client Sample ID: FIELD DUPLICATE

Date Collected: 12/12/18 08:40
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			12/13/18 11:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/13/18 11:37	1
Toluene	ND		1.0	0.51	ug/L			12/13/18 11:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/13/18 11:37	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/13/18 11:37	1
Trichloroethene	ND		1.0	0.46	ug/L			12/13/18 11:37	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/13/18 11:37	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/13/18 11:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/13/18 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/13/18 11:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*12/13/18 11:37*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*12/13/18 11:37*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*12/13/18 11:37*	*1*

Client Sample ID: TRIP BLANK

Date Collected: 12/12/18 00:00
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-13
Matrix: Water

Method: 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			12/13/18 12:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/13/18 12:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/13/18 12:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/13/18 12:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/13/18 12:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/13/18 12:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/13/18 12:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/13/18 12:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/13/18 12:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/13/18 12:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/13/18 12:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/13/18 12:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/13/18 12:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/13/18 12:04	1
2-Hexanone	ND		5.0	1.2	ug/L			12/13/18 12:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/13/18 12:04	1
Acetone	ND		10	3.0	ug/L			12/13/18 12:04	1
Benzene	ND		1.0	0.41	ug/L			12/13/18 12:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/13/18 12:04	1
Bromoform	ND		1.0	0.26	ug/L			12/13/18 12:04	1
Bromomethane	ND		1.0	0.69	ug/L			12/13/18 12:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/13/18 12:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/13/18 12:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/13/18 12:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/13/18 12:04	1
Chloroethane	ND		1.0	0.32	ug/L			12/13/18 12:04	1
Chloroform	ND		1.0	0.34	ug/L			12/13/18 12:04	1
Chloromethane	ND		1.0	0.35	ug/L			12/13/18 12:04	1

Client Sample ID: TRIP BLANK
Date Collected: 12/12/18 00:00
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/13/18 12:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/13/18 12:04	1
Cyclohexane	ND		1.0	0.18	ug/L			12/13/18 12:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/13/18 12:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/13/18 12:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/13/18 12:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/13/18 12:04	1
Methyl acetate	ND		2.5	1.3	ug/L			12/13/18 12:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/13/18 12:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/13/18 12:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/13/18 12:04	1
Styrene	ND		1.0	0.73	ug/L			12/13/18 12:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/13/18 12:04	1
Toluene	ND		1.0	0.51	ug/L			12/13/18 12:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/13/18 12:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/13/18 12:04	1
Trichloroethene	ND		1.0	0.46	ug/L			12/13/18 12:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/13/18 12:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/13/18 12:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/13/18 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/13/18 12:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*		*12/13/18 12:04*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*12/13/18 12:04*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*12/13/18 12:04*	*1*

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

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)
480-146686-1	AL-1	93	88	110	95
480-146686-1 MS	AL-1	90	88	106	90
480-146686-1 MSD	AL-1	91	90	109	95
480-146686-2	AL-2	94	90	108	98
480-146686-3	AL-7	93	98	101	102
480-146686-4	MW12	95	100	107	101
480-146686-5	MW09R	92	94	103	94
480-146686-6	MW07R	93	96	104	97
480-146686-7	MW04	92	96	107	95
480-146686-8	MW01	92	96	105	99
480-146686-9	MW02R	94	93	108	97
480-146686-10	EX-MW12	94	95	111	96
480-146686-11	EX-MW11R	94	96	110	99
480-146686-11 MS	EX-MW11R	97	93	109	99
480-146686-11 MSD	EX-MW11R	96	94	108	97
480-146686-12	FIELD DUPLICATE	92	93	107	97
480-146686-13	TRIP BLANK	92	94	106	96
LCS 480-450577/5	Lab Control Sample	98	96	106	97
LCS 480-450594/5	Lab Control Sample	98	91	109	95
MB 480-450577/7	Method Blank	93	95	104	96
MB 480-450594/7	Method Blank	88	92	104	93

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 480-450577/7
Matrix: Water
Analysis Batch: 450577

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			12/12/18 21:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/12/18 21:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/12/18 21:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/12/18 21:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/12/18 21:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/12/18 21:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/12/18 21:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/12/18 21:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/12/18 21:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/12/18 21:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/12/18 21:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/12/18 21:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/12/18 21:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/12/18 21:30	1
2-Hexanone	ND		5.0	1.2	ug/L			12/12/18 21:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/12/18 21:30	1
Acetone	ND		10	3.0	ug/L			12/12/18 21:30	1
Benzene	ND		1.0	0.41	ug/L			12/12/18 21:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/12/18 21:30	1
Bromoform	ND		1.0	0.26	ug/L			12/12/18 21:30	1
Bromomethane	ND		1.0	0.69	ug/L			12/12/18 21:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/12/18 21:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/12/18 21:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/12/18 21:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/12/18 21:30	1
Chloroethane	ND		1.0	0.32	ug/L			12/12/18 21:30	1
Chloroform	ND		1.0	0.34	ug/L			12/12/18 21:30	1
Chloromethane	ND		1.0	0.35	ug/L			12/12/18 21:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/12/18 21:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/12/18 21:30	1
Cyclohexane	ND		1.0	0.18	ug/L			12/12/18 21:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/12/18 21:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/12/18 21:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/12/18 21:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/12/18 21:30	1
Methyl acetate	ND		2.5	1.3	ug/L			12/12/18 21:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/12/18 21:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/12/18 21:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/12/18 21:30	1
Styrene	ND		1.0	0.73	ug/L			12/12/18 21:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/12/18 21:30	1
Toluene	ND		1.0	0.51	ug/L			12/12/18 21:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/12/18 21:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/12/18 21:30	1
Trichloroethene	ND		1.0	0.46	ug/L			12/12/18 21:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/12/18 21:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/12/18 21:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/12/18 21:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		12/12/18 21:30	1
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		12/12/18 21:30	1
4-Bromofluorobenzene (Surr)	104		73 - 120		12/12/18 21:30	1
Dibromofluoromethane (Surr)	96		75 - 123		12/12/18 21:30	1

Lab Sample ID: LCS 480-450577/5
Matrix: Water
Analysis Batch: 450577

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	26.9		ug/L		108	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	76 - 120
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.5		ug/L		106	61 - 148
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	26.4		ug/L		105	66 - 127
1,2,4-Trichlorobenzene	25.0	24.8		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	56 - 134
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	24.9		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 120
2-Butanone (MEK)	125	130		ug/L		104	57 - 140
2-Hexanone	125	135		ug/L		108	65 - 127
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		105	71 - 125
Acetone	125	152		ug/L		121	56 - 142
Benzene	25.0	24.8		ug/L		99	71 - 124
Bromodichloromethane	25.0	25.6		ug/L		102	80 - 122
Bromoform	25.0	27.5		ug/L		110	61 - 132
Bromomethane	25.0	20.7		ug/L		83	55 - 144
Carbon disulfide	25.0	23.9		ug/L		96	59 - 134
Carbon tetrachloride	25.0	26.6		ug/L		106	72 - 134
Chlorobenzene	25.0	25.9		ug/L		104	80 - 120
Dibromochloromethane	25.0	27.7		ug/L		111	75 - 125
Chloroethane	25.0	24.7		ug/L		99	69 - 136
Chloroform	25.0	25.7		ug/L		103	73 - 127
Chloromethane	25.0	23.5		ug/L		94	68 - 124
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	74 - 124
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	74 - 124
Cyclohexane	25.0	27.6		ug/L		110	59 - 135
Dichlorodifluoromethane	25.0	23.8		ug/L		95	59 - 135
Ethylbenzene	25.0	26.0		ug/L		104	77 - 123
1,2-Dibromoethane	25.0	24.6		ug/L		98	77 - 120
Isopropylbenzene	25.0	25.8		ug/L		103	77 - 122
Methyl acetate	50.0	47.3		ug/L		95	74 - 133
Methyl tert-butyl ether	25.0	24.5		ug/L		98	77 - 120
Methylcyclohexane	25.0	28.5		ug/L		114	68 - 134
Methylene Chloride	25.0	23.7		ug/L		95	75 - 124
Styrene	25.0	26.1		ug/L		105	80 - 120
Tetrachloroethene	25.0	26.7		ug/L		107	74 - 122
Toluene	25.0	25.8		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	73 - 127

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

Lab Sample ID: LCS 480-450577/5
Matrix: Water
Analysis Batch: 450577

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
trans-1,3-Dichloropropene			25.0	25.7		ug/L		103	80 - 120		
Trichloroethene			25.0	24.9		ug/L		100	74 - 123		
Trichlorofluoromethane			25.0	27.2		ug/L		109	62 - 150		
Vinyl chloride			25.0	25.2		ug/L		101	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Lab Sample ID: 480-146686-11 MS
Matrix: Water
Analysis Batch: 450577

Client Sample ID: EX-MW11R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	ND		500	550		ug/L		110	73 - 126		
1,1,2,2-Tetrachloroethane	ND		500	464		ug/L		93	76 - 120		
1,1,2-Trichloroethane	ND		500	531		ug/L		106	76 - 122		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	545		ug/L		109	61 - 148		
1,1-Dichloroethane	ND		500	537		ug/L		107	77 - 120		
1,1-Dichloroethene	ND		500	549		ug/L		110	66 - 127		
1,2,4-Trichlorobenzene	ND		500	510		ug/L		102	79 - 122		
1,2-Dibromo-3-Chloropropane	ND		500	484		ug/L		97	56 - 134		
1,2-Dichlorobenzene	ND		500	536		ug/L		107	80 - 124		
1,2-Dichloroethane	ND		500	520		ug/L		104	75 - 120		
1,2-Dichloropropane	ND		500	517		ug/L		103	76 - 120		
1,3-Dichlorobenzene	ND		500	509		ug/L		102	77 - 120		
1,4-Dichlorobenzene	ND		500	512		ug/L		102	78 - 124		
2-Butanone (MEK)	ND		2500	2700		ug/L		108	57 - 140		
2-Hexanone	ND		2500	2620		ug/L		105	65 - 127		
4-Methyl-2-pentanone (MIBK)	ND		2500	2650		ug/L		106	71 - 125		
Acetone	ND		2500	2880		ug/L		115	56 - 142		
Benzene	ND		500	515		ug/L		103	71 - 124		
Bromodichloromethane	ND		500	539		ug/L		108	80 - 122		
Bromoform	ND		500	519		ug/L		104	61 - 132		
Bromomethane	ND		500	460		ug/L		92	55 - 144		
Carbon disulfide	ND		500	497		ug/L		99	59 - 134		
Carbon tetrachloride	ND		500	545		ug/L		109	72 - 134		
Chlorobenzene	ND		500	506		ug/L		101	80 - 120		
Dibromochloromethane	ND		500	533		ug/L		107	75 - 125		
Chloroethane	ND		500	560		ug/L		112	69 - 136		
Chloroform	ND		500	528		ug/L		106	73 - 127		
Chloromethane	ND		500	498		ug/L		100	68 - 124		
cis-1,2-Dichloroethene	960		500	1320		ug/L		74	74 - 124		
cis-1,3-Dichloropropene	ND		500	475		ug/L		95	74 - 124		
Cyclohexane	19	J	500	606		ug/L		117	59 - 135		

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

Lab Sample ID: 480-146686-11 MS
Matrix: Water
Analysis Batch: 450577

Client Sample ID: EX-MW11R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		500	549		ug/L		110	59 - 135
Ethylbenzene	ND		500	520		ug/L		104	77 - 123
1,2-Dibromoethane	ND		500	498		ug/L		100	77 - 120
Isopropylbenzene	ND		500	516		ug/L		103	77 - 122
Methyl acetate	ND		1000	978		ug/L		98	74 - 133
Methyl tert-butyl ether	ND		500	496		ug/L		99	77 - 120
Methylcyclohexane	7.3	J	500	611		ug/L		121	68 - 134
Methylene Chloride	ND		500	482		ug/L		96	75 - 124
Styrene	ND		500	515		ug/L		103	80 - 120
Tetrachloroethene	ND		500	555		ug/L		111	74 - 122
Toluene	ND		500	503		ug/L		101	80 - 122
trans-1,2-Dichloroethene	ND		500	531		ug/L		106	73 - 127
trans-1,3-Dichloropropene	ND		500	476		ug/L		95	80 - 120
Trichloroethene	10	J	500	516		ug/L		101	74 - 123
Trichlorofluoromethane	ND		500	599		ug/L		120	62 - 150
Vinyl chloride	510		500	886		ug/L		75	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: 480-146686-11 MSD
Matrix: Water
Analysis Batch: 450577

Client Sample ID: EX-MW11R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		500	567		ug/L		113	73 - 126	3	15
1,1,2,2-Tetrachloroethane	ND		500	494		ug/L		99	76 - 120	6	15
1,1,2-Trichloroethane	ND		500	510		ug/L		102	76 - 122	4	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	578		ug/L		116	61 - 148	6	20
1,1-Dichloroethane	ND		500	546		ug/L		109	77 - 120	2	20
1,1-Dichloroethene	ND		500	573		ug/L		115	66 - 127	4	16
1,2,4-Trichlorobenzene	ND		500	506		ug/L		101	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		500	505		ug/L		101	56 - 134	4	15
1,2-Dichlorobenzene	ND		500	537		ug/L		107	80 - 124	0	20
1,2-Dichloroethane	ND		500	512		ug/L		102	75 - 120	1	20
1,2-Dichloropropane	ND		500	535		ug/L		107	76 - 120	3	20
1,3-Dichlorobenzene	ND		500	531		ug/L		106	77 - 120	4	20
1,4-Dichlorobenzene	ND		500	532		ug/L		106	78 - 124	4	20
2-Butanone (MEK)	ND		2500	2640		ug/L		105	57 - 140	2	20
2-Hexanone	ND		2500	2590		ug/L		104	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		2500	2560		ug/L		102	71 - 125	4	35
Acetone	ND		2500	2760		ug/L		110	56 - 142	4	15
Benzene	ND		500	531		ug/L		106	71 - 124	3	13
Bromodichloromethane	ND		500	522		ug/L		104	80 - 122	3	15

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

Lab Sample ID: 480-146686-11 MSD
Matrix: Water
Analysis Batch: 450577

Client Sample ID: EX-MW11R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		500	505		ug/L		101	61 - 132	3	15
Bromomethane	ND		500	460		ug/L		92	55 - 144	0	15
Carbon disulfide	ND		500	500		ug/L		100	59 - 134	1	15
Carbon tetrachloride	ND		500	556		ug/L		111	72 - 134	2	15
Chlorobenzene	ND		500	514		ug/L		103	80 - 120	2	25
Dibromochloromethane	ND		500	535		ug/L		107	75 - 125	0	15
Chloroethane	ND		500	583		ug/L		117	69 - 136	4	15
Chloroform	ND		500	547		ug/L		109	73 - 127	4	20
Chloromethane	ND		500	506		ug/L		101	68 - 124	1	15
cis-1,2-Dichloroethene	960		500	1340		ug/L		77	74 - 124	1	15
cis-1,3-Dichloropropene	ND		500	496		ug/L		99	74 - 124	4	15
Cyclohexane	19	J	500	635		ug/L		123	59 - 135	5	20
Dichlorodifluoromethane	ND		500	565		ug/L		113	59 - 135	3	20
Ethylbenzene	ND		500	533		ug/L		107	77 - 123	2	15
1,2-Dibromoethane	ND		500	503		ug/L		101	77 - 120	1	15
Isopropylbenzene	ND		500	558		ug/L		112	77 - 122	8	20
Methyl acetate	ND		1000	961		ug/L		96	74 - 133	2	20
Methyl tert-butyl ether	ND		500	505		ug/L		101	77 - 120	2	37
Methylcyclohexane	7.3	J	500	608		ug/L		120	68 - 134	1	20
Methylene Chloride	ND		500	496		ug/L		99	75 - 124	3	15
Styrene	ND		500	528		ug/L		106	80 - 120	2	20
Tetrachloroethene	ND		500	575		ug/L		115	74 - 122	4	20
Toluene	ND		500	519		ug/L		104	80 - 122	3	15
trans-1,2-Dichloroethene	ND		500	543		ug/L		109	73 - 127	2	20
trans-1,3-Dichloropropene	ND		500	485		ug/L		97	80 - 120	2	15
Trichloroethene	10	J	500	547		ug/L		107	74 - 123	6	16
Trichlorofluoromethane	ND		500	641		ug/L		128	62 - 150	7	20
Vinyl chloride	510		500	935		ug/L		85	65 - 133	5	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*94*		*77 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Lab Sample ID: MB 480-450594/7
Matrix: Water
Analysis Batch: 450594

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			12/13/18 09:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/13/18 09:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/13/18 09:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/13/18 09:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/13/18 09:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/13/18 09:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/13/18 09:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/13/18 09:40	1

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

Lab Sample ID: MB 480-450594/7
Matrix: Water
Analysis Batch: 450594

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/13/18 09:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/13/18 09:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/13/18 09:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/13/18 09:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/13/18 09:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/13/18 09:40	1
2-Hexanone	ND		5.0	1.2	ug/L			12/13/18 09:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/13/18 09:40	1
Acetone	ND		10	3.0	ug/L			12/13/18 09:40	1
Benzene	ND		1.0	0.41	ug/L			12/13/18 09:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/13/18 09:40	1
Bromoform	ND		1.0	0.26	ug/L			12/13/18 09:40	1
Bromomethane	ND		1.0	0.69	ug/L			12/13/18 09:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/13/18 09:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/13/18 09:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/13/18 09:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/13/18 09:40	1
Chloroethane	ND		1.0	0.32	ug/L			12/13/18 09:40	1
Chloroform	ND		1.0	0.34	ug/L			12/13/18 09:40	1
Chloromethane	ND		1.0	0.35	ug/L			12/13/18 09:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/13/18 09:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/13/18 09:40	1
Cyclohexane	ND		1.0	0.18	ug/L			12/13/18 09:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/13/18 09:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/13/18 09:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/13/18 09:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/13/18 09:40	1
Methyl acetate	ND		2.5	1.3	ug/L			12/13/18 09:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/13/18 09:40	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/13/18 09:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/13/18 09:40	1
Styrene	ND		1.0	0.73	ug/L			12/13/18 09:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/13/18 09:40	1
Toluene	ND		1.0	0.51	ug/L			12/13/18 09:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/13/18 09:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/13/18 09:40	1
Trichloroethene	ND		1.0	0.46	ug/L			12/13/18 09:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/13/18 09:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/13/18 09:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/13/18 09:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*12/13/18 09:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*12/13/18 09:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*12/13/18 09:40*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*12/13/18 09:40*	*1*

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

Lab Sample ID: LCS 480-450594/5
Matrix: Water
Analysis Batch: 450594

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	24.9		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.0		ug/L		96	76 - 120
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.4		ug/L		98	61 - 148
1,1-Dichloroethane	25.0	25.7		ug/L		103	77 - 120
1,1-Dichloroethene	25.0	25.0		ug/L		100	66 - 127
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		104	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.4		ug/L		102	56 - 134
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	80 - 124
1,2-Dichloroethane	25.0	25.3		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	25.5		ug/L		102	76 - 120
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	26.4		ug/L		106	80 - 120
2-Butanone (MEK)	125	140		ug/L		112	57 - 140
2-Hexanone	125	131		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	71 - 125
Acetone	125	177		ug/L		142	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromodichloromethane	25.0	25.4		ug/L		102	80 - 122
Bromoform	25.0	25.3		ug/L		101	61 - 132
Bromomethane	25.0	19.0		ug/L		76	55 - 144
Carbon disulfide	25.0	22.7		ug/L		91	59 - 134
Carbon tetrachloride	25.0	24.4		ug/L		98	72 - 134
Chlorobenzene	25.0	24.4		ug/L		98	80 - 120
Dibromochloromethane	25.0	26.2		ug/L		105	75 - 125
Chloroethane	25.0	23.6		ug/L		94	69 - 136
Chloroform	25.0	25.5		ug/L		102	73 - 127
Chloromethane	25.0	21.5		ug/L		86	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	74 - 124
Cyclohexane	25.0	25.6		ug/L		102	59 - 135
Dichlorodifluoromethane	25.0	21.1		ug/L		85	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
1,2-Dibromoethane	25.0	24.8		ug/L		99	77 - 120
Isopropylbenzene	25.0	25.9		ug/L		104	77 - 122
Methyl acetate	50.0	49.7		ug/L		99	74 - 133
Methyl tert-butyl ether	25.0	24.1		ug/L		97	77 - 120
Methylcyclohexane	25.0	26.5		ug/L		106	68 - 134
Methylene Chloride	25.0	23.2		ug/L		93	75 - 124
Styrene	25.0	25.3		ug/L		101	80 - 120
Tetrachloroethene	25.0	25.4		ug/L		102	74 - 122
Toluene	25.0	23.8		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	25.1		ug/L		101	73 - 127
trans-1,3-Dichloropropene	25.0	23.8		ug/L		95	80 - 120
Trichloroethene	25.0	24.5		ug/L		98	74 - 123
Trichlorofluoromethane	25.0	25.1		ug/L		100	62 - 150
Vinyl chloride	25.0	23.0		ug/L		92	65 - 133

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

Lab Sample ID: LCS 480-450594/5
Matrix: Water
Analysis Batch: 450594

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*77 - 120*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

Lab Sample ID: 480-146686-1 MS
Matrix: Water
Analysis Batch: 450594

Client Sample ID: AL-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		500	525		ug/L		105	73 - 126
1,1,2,2-Tetrachloroethane	ND		500	503		ug/L		101	76 - 120
1,1,2-Trichloroethane	ND		500	507		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	528		ug/L		106	61 - 148
1,1-Dichloroethane	ND		500	525		ug/L		105	77 - 120
1,1-Dichloroethene	ND		500	548		ug/L		110	66 - 127
1,2,4-Trichlorobenzene	ND		500	490		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	ND		500	490		ug/L		98	56 - 134
1,2-Dichlorobenzene	ND		500	515		ug/L		103	80 - 124
1,2-Dichloroethane	ND		500	537		ug/L		107	75 - 120
1,2-Dichloropropane	ND		500	524		ug/L		105	76 - 120
1,3-Dichlorobenzene	ND		500	501		ug/L		100	77 - 120
1,4-Dichlorobenzene	ND		500	498		ug/L		100	78 - 124
2-Butanone (MEK)	ND		2500	2770		ug/L		111	57 - 140
2-Hexanone	ND		2500	2680		ug/L		107	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		2500	2550		ug/L		102	71 - 125
Acetone	ND		2500	2930		ug/L		117	56 - 142
Benzene	14	J	500	521		ug/L		101	71 - 124
Bromodichloromethane	ND		500	543		ug/L		109	80 - 122
Bromoform	ND		500	546		ug/L		109	61 - 132
Bromomethane	ND		500	396		ug/L		79	55 - 144
Carbon disulfide	ND		500	479		ug/L		96	59 - 134
Carbon tetrachloride	ND		500	549		ug/L		110	72 - 134
Chlorobenzene	ND		500	499		ug/L		100	80 - 120
Dibromochloromethane	ND		500	535		ug/L		107	75 - 125
Chloroethane	ND		500	474		ug/L		95	69 - 136
Chloroform	ND		500	530		ug/L		106	73 - 127
Chloromethane	ND		500	434		ug/L		87	68 - 124
cis-1,2-Dichloroethene	1100	F1	500	1400	F1	ug/L		69	74 - 124
cis-1,3-Dichloropropene	ND		500	487		ug/L		97	74 - 124
Cyclohexane	11	J	500	559		ug/L		110	59 - 135
Dichlorodifluoromethane	ND		500	438		ug/L		88	59 - 135
Ethylbenzene	ND		500	496		ug/L		99	77 - 123
1,2-Dibromoethane	ND		500	501		ug/L		100	77 - 120
Isopropylbenzene	ND		500	496		ug/L		99	77 - 122
Methyl acetate	ND		1000	1030		ug/L		103	74 - 133
Methyl tert-butyl ether	ND		500	495		ug/L		99	77 - 120

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

Lab Sample ID: 480-146686-1 MS
Matrix: Water
Analysis Batch: 450594

Client Sample ID: AL-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	6.3	J	500	527		ug/L		104	68 - 134
Methylene Chloride	ND		500	484		ug/L		97	75 - 124
Styrene	ND		500	500		ug/L		100	80 - 120
Tetrachloroethene	ND		500	538		ug/L		108	74 - 122
Toluene	ND		500	490		ug/L		98	80 - 122
trans-1,2-Dichloroethene	ND		500	524		ug/L		105	73 - 127
trans-1,3-Dichloropropene	ND		500	489		ug/L		98	80 - 120
Trichloroethene	ND		500	512		ug/L		102	74 - 123
Trichlorofluoromethane	ND		500	509		ug/L		102	62 - 150
Vinyl chloride	540		500	906		ug/L		72	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*90*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*88*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*90*		*75 - 123*

Lab Sample ID: 480-146686-1 MSD
Matrix: Water
Analysis Batch: 450594

Client Sample ID: AL-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		500	525		ug/L		105	73 - 126	0	15
1,1,2,2-Tetrachloroethane	ND		500	494		ug/L		99	76 - 120	2	15
1,1,2-Trichloroethane	ND		500	535		ug/L		107	76 - 122	5	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	513		ug/L		103	61 - 148	3	20
1,1-Dichloroethane	ND		500	544		ug/L		109	77 - 120	4	20
1,1-Dichloroethene	ND		500	542		ug/L		108	66 - 127	1	16
1,2,4-Trichlorobenzene	ND		500	494		ug/L		99	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		500	528		ug/L		106	56 - 134	7	15
1,2-Dichlorobenzene	ND		500	514		ug/L		103	80 - 124	0	20
1,2-Dichloroethane	ND		500	534		ug/L		107	75 - 120	1	20
1,2-Dichloropropane	ND		500	529		ug/L		106	76 - 120	1	20
1,3-Dichlorobenzene	ND		500	492		ug/L		98	77 - 120	2	20
1,4-Dichlorobenzene	ND		500	505		ug/L		101	78 - 124	1	20
2-Butanone (MEK)	ND		2500	2820		ug/L		113	57 - 140	2	20
2-Hexanone	ND		2500	2750		ug/L		110	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	ND		2500	2700		ug/L		108	71 - 125	6	35
Acetone	ND		2500	2970		ug/L		119	56 - 142	1	15
Benzene	14	J	500	537		ug/L		105	71 - 124	3	13
Bromodichloromethane	ND		500	549		ug/L		110	80 - 122	1	15
Bromoform	ND		500	555		ug/L		111	61 - 132	2	15
Bromomethane	ND		500	419		ug/L		84	55 - 144	6	15
Carbon disulfide	ND		500	477		ug/L		95	59 - 134	1	15
Carbon tetrachloride	ND		500	530		ug/L		106	72 - 134	4	15
Chlorobenzene	ND		500	510		ug/L		102	80 - 120	2	25
Dibromochloromethane	ND		500	571		ug/L		114	75 - 125	7	15

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

Lab Sample ID: 480-146686-1 MSD
Matrix: Water
Analysis Batch: 450594

Client Sample ID: AL-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	ND		500	499		ug/L		100	69 - 136	5	15
Chloroform	ND		500	549		ug/L		110	73 - 127	3	20
Chloromethane	ND		500	465		ug/L		93	68 - 124	7	15
cis-1,2-Dichloroethene	1100	F1	500	1430		ug/L		75	74 - 124	2	15
cis-1,3-Dichloropropene	ND		500	495		ug/L		99	74 - 124	2	15
Cyclohexane	11	J	500	553		ug/L		108	59 - 135	1	20
Dichlorodifluoromethane	ND		500	428		ug/L		86	59 - 135	2	20
Ethylbenzene	ND		500	497		ug/L		99	77 - 123	0	15
1,2-Dibromoethane	ND		500	508		ug/L		102	77 - 120	1	15
Isopropylbenzene	ND		500	503		ug/L		101	77 - 122	2	20
Methyl acetate	ND		1000	1090		ug/L		109	74 - 133	6	20
Methyl tert-butyl ether	ND		500	517		ug/L		103	77 - 120	4	37
Methylcyclohexane	6.3	J	500	539		ug/L		106	68 - 134	2	20
Methylene Chloride	ND		500	502		ug/L		100	75 - 124	4	15
Styrene	ND		500	515		ug/L		103	80 - 120	3	20
Tetrachloroethene	ND		500	513		ug/L		103	74 - 122	5	20
Toluene	ND		500	515		ug/L		103	80 - 122	5	15
trans-1,2-Dichloroethene	ND		500	520		ug/L		104	73 - 127	1	20
trans-1,3-Dichloropropene	ND		500	491		ug/L		98	80 - 120	0	15
Trichloroethene	ND		500	519		ug/L		104	74 - 123	1	16
Trichlorofluoromethane	ND		500	521		ug/L		104	62 - 150	2	20
Vinyl chloride	540		500	912		ug/L		74	65 - 133	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*90*		*77 - 120*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

GC/MS VOA

Analysis Batch: 450577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-146686-3	AL-7	Total/NA	Water	8260C	
480-146686-4	MW12	Total/NA	Water	8260C	
480-146686-5	MW09R	Total/NA	Water	8260C	
480-146686-6	MW07R	Total/NA	Water	8260C	
480-146686-7	MW04	Total/NA	Water	8260C	
480-146686-8	MW01	Total/NA	Water	8260C	
480-146686-9	MW02R	Total/NA	Water	8260C	
480-146686-10	EX-MW12	Total/NA	Water	8260C	
480-146686-11	EX-MW11R	Total/NA	Water	8260C	
MB 480-450577/7	Method Blank	Total/NA	Water	8260C	
LCS 480-450577/5	Lab Control Sample	Total/NA	Water	8260C	
480-146686-11 MS	EX-MW11R	Total/NA	Water	8260C	
480-146686-11 MSD	EX-MW11R	Total/NA	Water	8260C	

Analysis Batch: 450594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-146686-1	AL-1	Total/NA	Water	8260C	
480-146686-2	AL-2	Total/NA	Water	8260C	
480-146686-12	FIELD DUPLICATE	Total/NA	Water	8260C	
480-146686-13	TRIP BLANK	Total/NA	Water	8260C	
MB 480-450594/7	Method Blank	Total/NA	Water	8260C	
LCS 480-450594/5	Lab Control Sample	Total/NA	Water	8260C	
480-146686-1 MS	AL-1	Total/NA	Water	8260C	
480-146686-1 MSD	AL-1	Total/NA	Water	8260C	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

Client Sample ID: AL-1
Date Collected: 12/12/18 16:05
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	450594	12/13/18 10:43	RLB	TAL BUF

Client Sample ID: AL-2
Date Collected: 12/12/18 15:23
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	450594	12/13/18 11:10	RLB	TAL BUF

Client Sample ID: AL-7
Date Collected: 12/12/18 16:45
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	450577	12/13/18 01:43	AMM	TAL BUF

Client Sample ID: MW12
Date Collected: 12/12/18 08:40
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	450577	12/13/18 02:10	AMM	TAL BUF

Client Sample ID: MW09R
Date Collected: 12/12/18 09:42
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	450577	12/13/18 02:37	AMM	TAL BUF

Client Sample ID: MW07R
Date Collected: 12/12/18 10:30
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	450577	12/13/18 03:04	AMM	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

Client Sample ID: MW04
Date Collected: 12/12/18 11:30
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	450577	12/13/18 03:32	AMM	TAL BUF

Client Sample ID: MW01
Date Collected: 12/12/18 12:10
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	450577	12/13/18 03:59	AMM	TAL BUF

Client Sample ID: MW02R
Date Collected: 12/12/18 13:52
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	450577	12/13/18 04:27	AMM	TAL BUF

Client Sample ID: EX-MW12
Date Collected: 12/12/18 12:45
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	450577	12/13/18 04:54	AMM	TAL BUF

Client Sample ID: EX-MW11R
Date Collected: 12/12/18 14:35
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	450577	12/13/18 05:22	AMM	TAL BUF

Client Sample ID: FIELD DUPLICATE
Date Collected: 12/12/18 08:40
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	450594	12/13/18 11:37	RLB	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

Client Sample ID: TRIP BLANK

Date Collected: 12/12/18 00:00
Date Received: 12/12/18 16:45

Lab Sample ID: 480-146686-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	450594	12/13/18 12:04	RLB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: LaBella Associates DPC
TestAmerica Job ID: 480-146686-1
Project/Site: Alumax & Roblin Periodic Review Reports

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Method Summary

Client: LaBella Associates DPC
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: LaBella Associates DPC
Project/Site: Alumax & Roblin Periodic Review Reports

TestAmerica Job ID: 480-146686-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-146686-1	AL-1	Water	12/12/18 16:05	12/12/18 16:45
480-146686-2	AL-2	Water	12/12/18 15:23	12/12/18 16:45
480-146686-3	AL-7	Water	12/12/18 16:45	12/12/18 16:45
480-146686-4	MW12	Water	12/12/18 08:40	12/12/18 16:45
480-146686-5	MW09R	Water	12/12/18 09:42	12/12/18 16:45
480-146686-6	MW07R	Water	12/12/18 10:30	12/12/18 16:45
480-146686-7	MW04	Water	12/12/18 11:30	12/12/18 16:45
480-146686-8	MW01	Water	12/12/18 12:10	12/12/18 16:45
480-146686-9	MW02R	Water	12/12/18 13:52	12/12/18 16:45
480-146686-10	EX-MW12	Water	12/12/18 12:45	12/12/18 16:45
480-146686-11	EX-MW11R	Water	12/12/18 14:35	12/12/18 16:45
480-146686-12	FIELD DUPLICATE	Water	12/12/18 08:40	12/12/18 16:45
480-146686-13	TRIP BLANK	Water	12/12/18 00:00	12/12/18 16:45

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record 303849

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

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

Client Contact	Project Manager: Rob Napieralski	Site Contact: Chris Kibler	Date: 12-12-18	COC No: 480-122433-28077
Company Name: LaBella	Tel/Fax: 716-551-6281	Lab Contact: Melissa Deyo	Carrier:	1 of 1 COCs
Address: 300 Pearl St. Suite 130	Analysis Turnaround Time			Sampler: Chris Kibler
City/State/Zip: Buffalo, NY, 14202	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
Phone: 716-551-6281	TAT if different from Below ____			Walk-in Client:
Fax: 716-551-6282	☐ 2 weeks Stan.			Lab Sampling:
Project Name: Raplin + Alumax Ext. Sites	☐ 1 week Turn			Job / SDG No.:
Site: Dunkirk, NY	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL VOC's 8260C
AL-1	12-12-18	16:05	G	GW	3			X
AL-2	12-12-18	15:23	G	GW	3			X
AL-7	12-12-18	16:45	G	GW	3			X
MW12	12-12-18	840	G	GW	3			X
MW09R	12-12-18	9:42	G	GW	3			X
MW07R	12-12-18	1030	G	GW	3			X
MW04	12-12-18	11:30	G	GW	3			X
MW01	12-12-18	12:10	G	GW	3			X
MW02R (EX 13:52)	12-12-18	~~1240~~	G	GW	3			X
EX-MW12	12-12-18	1245	G	GW	3			X
EX-MW11R	12-12-18	1435	G	GW	3			X
Field Duplicate	12-12-18	840	G	GW	3			X
								2

480-146686 COC

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

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 field duplicate + TripBlank for TCL VOC's

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 3.0 Corr'd: ____ | Therm ID No.: #6

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	LaBella	12-12-18/1645			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA	Date/Time: 12/12/18 1645

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-146686-1

Login Number: 146686
List Number: 1
Creator: Kolb, Chris M

List Source: TestAmerica Buffalo

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	
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	LABELLA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	