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Engineering
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Environmental
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2016 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 2017

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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 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. Millennium Parkway now 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 of Cliffstar. 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 Millennium Parkway 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 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 decreased slightly since the last sampling event and are 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 based on 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. Millennium Parkway now 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 of Cliffstar. 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 highway referred to as the Millennium Parkway Talcott Street Extension Project (herein referred to as the roadway project) 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. Figure 2 also identifies section, block and lot (SBL) numbers for these parcels.

On October 6, 2016, a portion of the concrete slab on the Site was utilized for the inspection of trucks transporting excavation spoils originating from the roadway project from a stockpile on the adjacent former Roblin Steel Site to the Chautauqua County Landfill. The use of this area of the Site for this purpose was in accordance with a NYSDEC-approved Truck Tracking Prevention & Control Plan (TTPCP) developed for the stockpile removal operation on the former Roblin Steel Site. Per the TTPCP, a temporary area was designated on the Alumax concrete pad where trucks leaving the Roblin property could have their tires visually inspected for dirt/mud and cleaned as needed. Refer to Figure 2 for the approximate location of the designated temporary inspection area/truck wash. Based upon visual observations, no dirt/mud was identified on any of the truck wheels during the transport of the remaining spoils from the Roblin stockpile on October 6, 2016. As a result, no spoils or rinse water were deposited or discharged on the Alumax concrete pad.

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 (PAHs), polychlorinated biphenyls (PCBs) and metals. A residual source area containing concentrations of TCE and its degradation products was identified in the groundwater on the northwestern 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. The project was publicly bid by the Chautauqua County Department of Public Facilities (CCDPF) Procurement Department. Cambria Contracting, Inc. of Lockport, New York, was the low bidder and was subsequently awarded the work. Prior to the demolition, the asbestos-containing-materials (ACMs) within the former Site building were abated in accordance with the requirements outlined in12 NYCRR Part 56 or New York State Department of Labor (NYSDOL) 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, 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.

As indicated in the December 15, 2014, Corrective Measures Summary Report (CMSR), cover system requirements were satisfied within the newly constructed Millennium Parkway 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 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 building in the northwest corner of Parcel A is utilized as office space with the remainder of the Site being use for parking; therefore, this use meets the definition of Restricted Commercial use. Parcel B is vacant and undeveloped. Both parcels are now transected by the Millennium Parkway, a public roadway that was completed 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 conductivity 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 New York State Department of Environmental Conservation (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 efficacy 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 USEPA Target Compound List (TCL) VOCs. Annual groundwater monitoring is performed in conjunction with the annual review of the institutional control plan. 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 2015 revealed that total VOC concentrations in this well exceeded the 100 ug/L concentration threshold. Therefore, groundwater samples were collected during the 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 Division of Environmental Remediation (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 7, 2016, Mr. Chris Kibler 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 Millennium Parkway. Parcel B was vacant and undeveloped with the exception of the Millennium Parkway, which transects the parcel in a northeast-southwest direction. At the time of the Site inspection, the asphalt cover occurring within the Millennium Parkway 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 (mil) 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 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 below the ground surface elevation. The groundwater levels were used to determine the volume of standing water in the wells.

Well purging consisted of the evacuation of a minimum of three well volumes using NYSDEC-approved low-flow purging procedures via a Geotech Geopump II AC/DC Peristaltic Pump. After completion of development, the wells were allowed to recharge. The samples were 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 (ELAP) certified laboratory for analysis. The COC records established for the collected samples were maintained throughout the laboratory handling. Copies of the COC and complete analytical laboratory report are included in Appendix 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 14, 2016, 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 EX-MW-11R) 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 (SCGs) 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, volatile organic compound (VOC) concentrations in AL-2 and AL-7 were below the 100 micrograms per liter (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 have decreased slightly since the last sampling event and are significantly lower than the pre-remedial sample results recorded in January 2003. While Cis-1, 2-Dichloroethene was detected at an elevated concentration above NYSDEC TOGS Standards, this concentration was slightly less than the last sampling event and it is still significantly lower than the pre-remedial sample results recorded in January 2003. Vinyl chloride was detected in AL-1 above NYSDEC TOGS Standards and at a concentration slightly higher than the pre-remedial sample results recorded in January 2003. Trichloroethene was detected in AL-1 above NYSDEC TOGS Standards and at a concentration slightly higher than the last sampling event but significantly lower than the pre-remedial sample results recorded in January 2003. Methylene Chloride was detected for the first time within AL-1 and above NYSDEC TOGS Standards. Continued monitoring of this location is warranted.

Total VOC concentrations in AL-2 have significantly decreased and are at their lowest concentration since the initial post-remedial sampling event in February 2009. Benzene was detected above NYSDEC TOGS Standards and at a concentration slightly higher than the last sampling event but lower than the pre-remedial sample results recorded in January 2003. Methylene Chloride was detected for the first time within AL-2 and above NYSDEC TOGS Standards.

Total VOC concentrations in AL-7 including the two VOCs detected during this monitoring event (Cis-1, 2-Dichloroethene and Trichloroethene) have been generally decreasing since the pre-remedial sampling event in February 2004 and are at their lowest concentrations since monitoring began at this location. Only Cis-1, 2-Dichloroethene was detected at a concentration above NYSDEC TOGS Standards.

A comparison of the results from EX-MW11R on the Former Roblin Steel Site with the blind field duplicate indicates that the data generally coincide (i.e. all concentrations for the duplicate were within 1.5 times of the detected concentrations of the original sample). 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 decreased slightly since the last sampling event and are 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 Millennium Parkway 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 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 be completed in 2017.

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 2015

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

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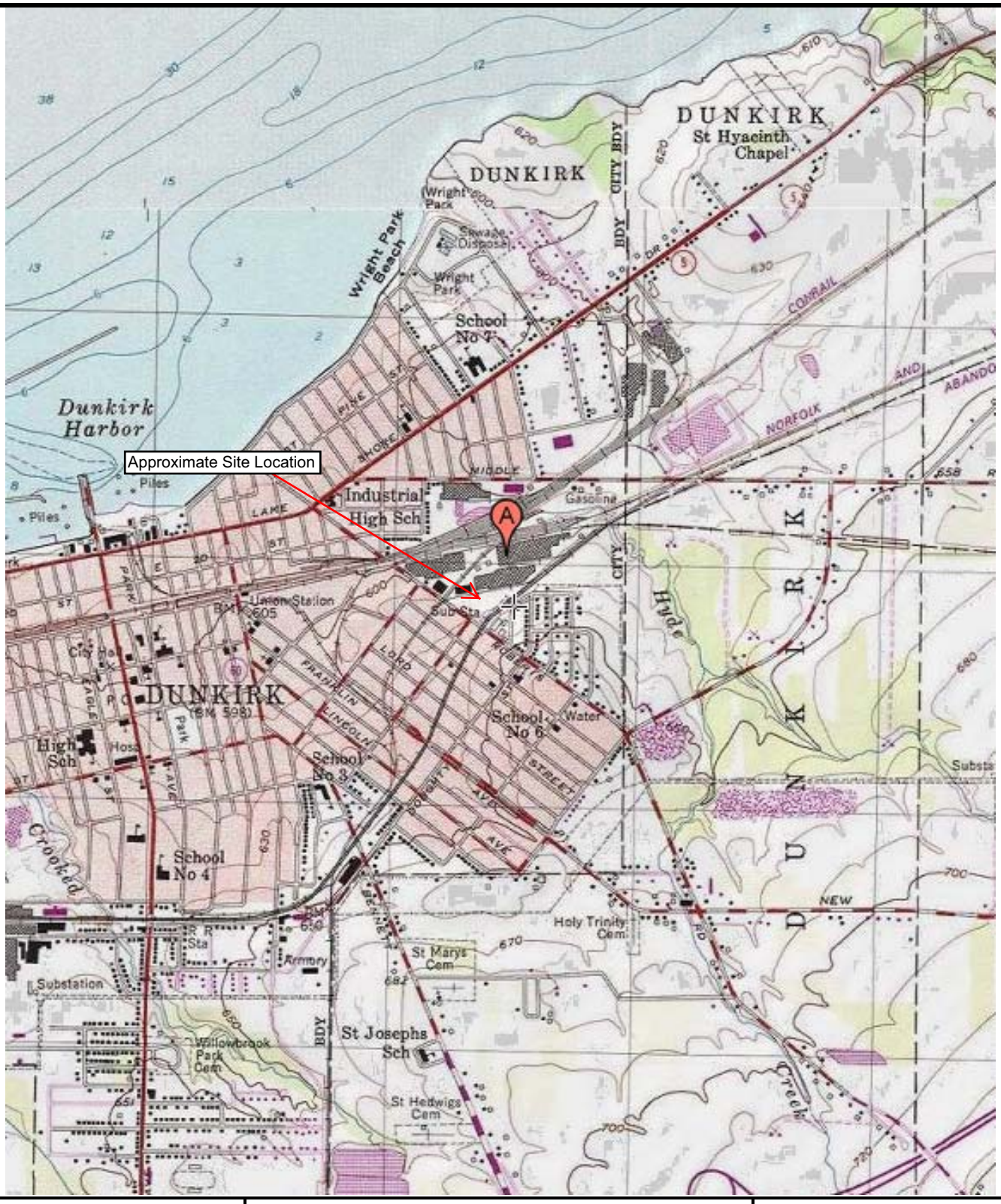
FIGURES



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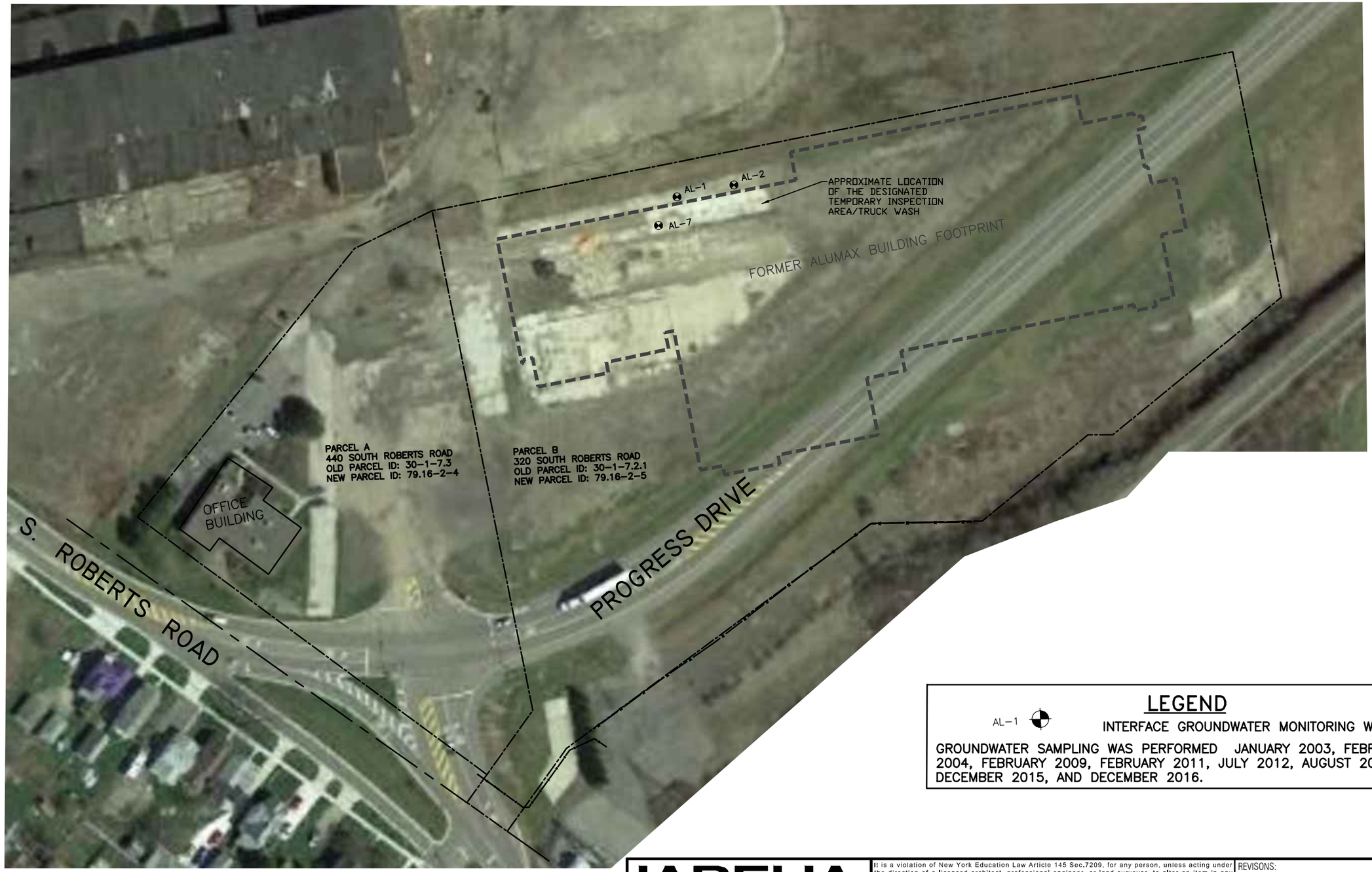
Not To Scale

FIGURE 1
SITE LOCATION MAP

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

LABELLA

PROJECT NO. 2160148



LEGEND

AL-1 ⊕ INTERFACE GROUNDWATER MONITORING WELL

GROUNDWATER SAMPLING WAS PERFORMED JANUARY 2003, FEBRUARY, 2004, FEBRUARY 2009, FEBRUARY 2011, JULY 2012, AUGUST 2013, DECEMBER 2015, AND DECEMBER 2016.

NOTE:
ORIGINAL DRAWING PROVIDED BY KHEOPS ARCHITECTURE, ENGINEERING, & SURVEY, DPC.

0 100′ 200′

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REVISONS:

DRAWING NAME:	DRAWN BY:	DATE:	PROJECT NO:
SITE PLAN	ATB	DECEMBER 2016	2160148

PROJECT NAME:	ISSUED FOR:	SHEET NO.
FORMER ALUMAX EXTRUSIONS SITE DUNKIRK, CHAUTAUQUA COUNTY, NEW YORK		FIGURE 2

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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	2/22/2011	7/19/2012	8/15/2013	7/15/2014	12/12/2015	12/14/2016	5/31/00	1/16/03	2/10/09	2/22/2011	7/19/2012	8/15/2013	7/15/2014	12/15/2015	12/14/2016	2/25/04	2/10/09	2/22/2011	7/19/2012	8/15/2013	7/15/2014	12/15/2015	12/14/2016
		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														4.2				
cis-1,2-Dichloroethene	5	1,500	9,400	1,280	1,140	1,000	961	1,820	3,200	2,500			9.36	6.94	2.3	394	1160	8.7		1,100	600	473	300	517	124	42	7
trans-1,2-Dichloroethene	5		39			3.9			10														1.9			0.4	
Acetone	50																							138	17.9	1.3	
Benzene	1		38	9.77	17.1	17	14.9		9.5			12	6.1	16.1	13	5.47		5.5	9							0.23	
Cyclohexane	5		64			180			5.2			2			34			4.2					14			0.73	
Ethylbenzene	5		6			2.5						4						0.23									
Isopropylbenzene	5					5.9																					
Methylcyclohexane	5		41			120												1.5					27			0.55	
Methylene Chloride	5									45									12								
Toluene	5		43			2.2			3.1																		
m,p-Xylene	5					4.5																					
o-Xylene	5					7.9			2.4																	0.31	
Total Xylenes	5		13			12.4														29							
Trichloroethene	5	2,400	4,600	118	197	100	192	278	88	130								1.5		3,000	154	138	55	109	9.26	6.7	2
Vinyl chloride	2	240	740	977	825	460	416	1040	850	850			3.7			246	104	2.7		160	331	271	190	247	17.1	4.8	
BTEX Compounds	-	0	87	10	17	34	15	0	15	0	0	16	6	16	13	5		6	9	0	0	0	0	0		1	0
Total VOCs	-	4,140	15,057	2,385	2,179	1,913	1,584	3,138	4,192	3,525	0	18	19	23	49	645	1,264	24	21	4,289	1,085	882	592	1,011	168	57	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.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

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

Index DEED BOOK

Book 02560 Page 0509

No. Pages 0007

Instrument DECLAR-DEEDS

Date : 11/22/2004

Time : 2:20:53

Control # 200411220133

INST# DE 2004 007426

ALCOA INC

NEW YORK STATE DEPARTMENT OF E
NVIRONMENTAL CONSERV ATION

Employee ID LORENZOT

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. Date: November 3, 2004

Russell W. Porter, Jr.
Vice President

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:

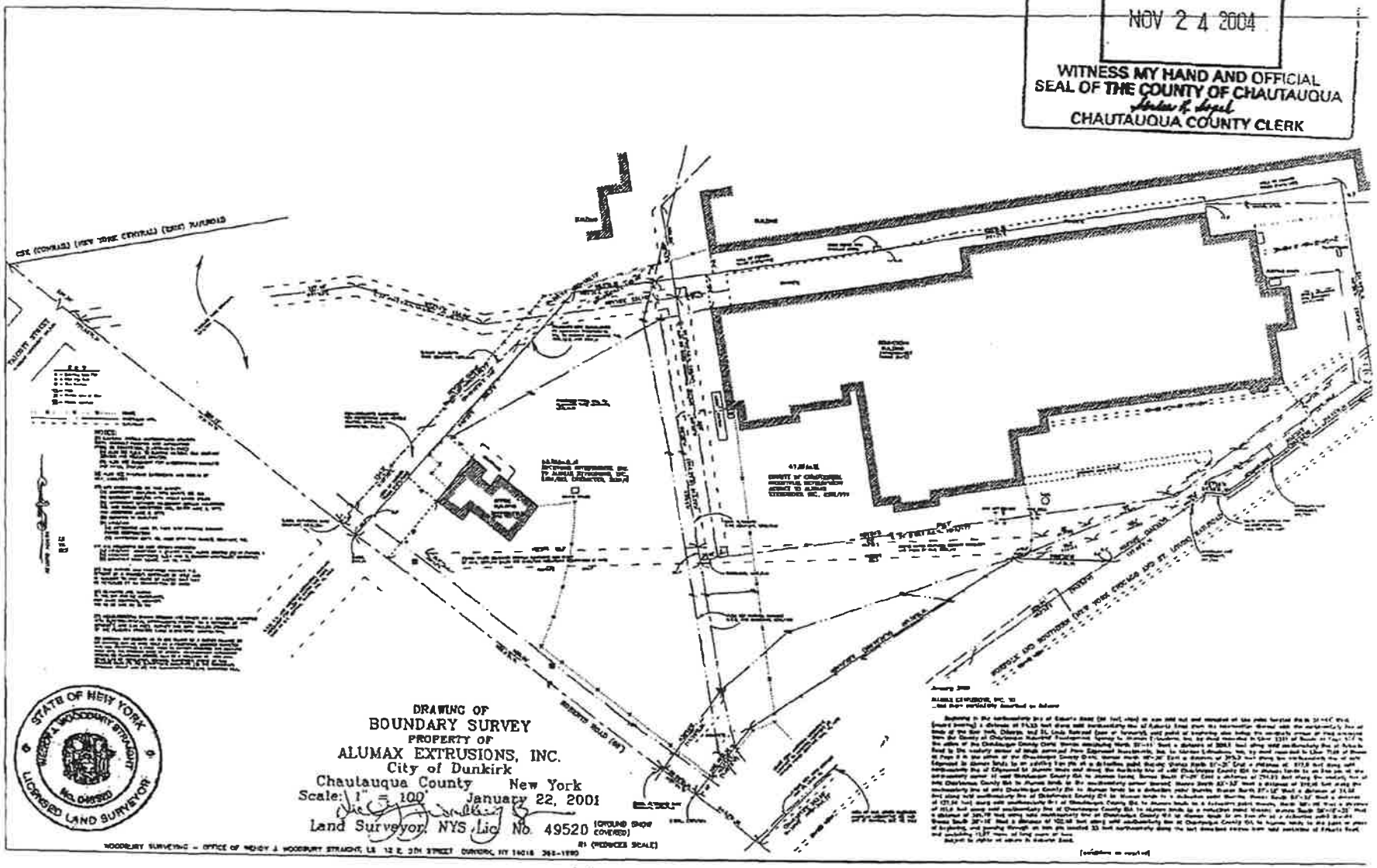
BEGINNING in the center line of the existing 30.3 foot pavement in Roberts Road at a point located 94.53 feet northwesterly along said centerline from the northwesterly line of lands of the New York, Chicago & St. Louis Railroad Company; thence north 51° 44' west along said centerline a distance of 50 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.

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

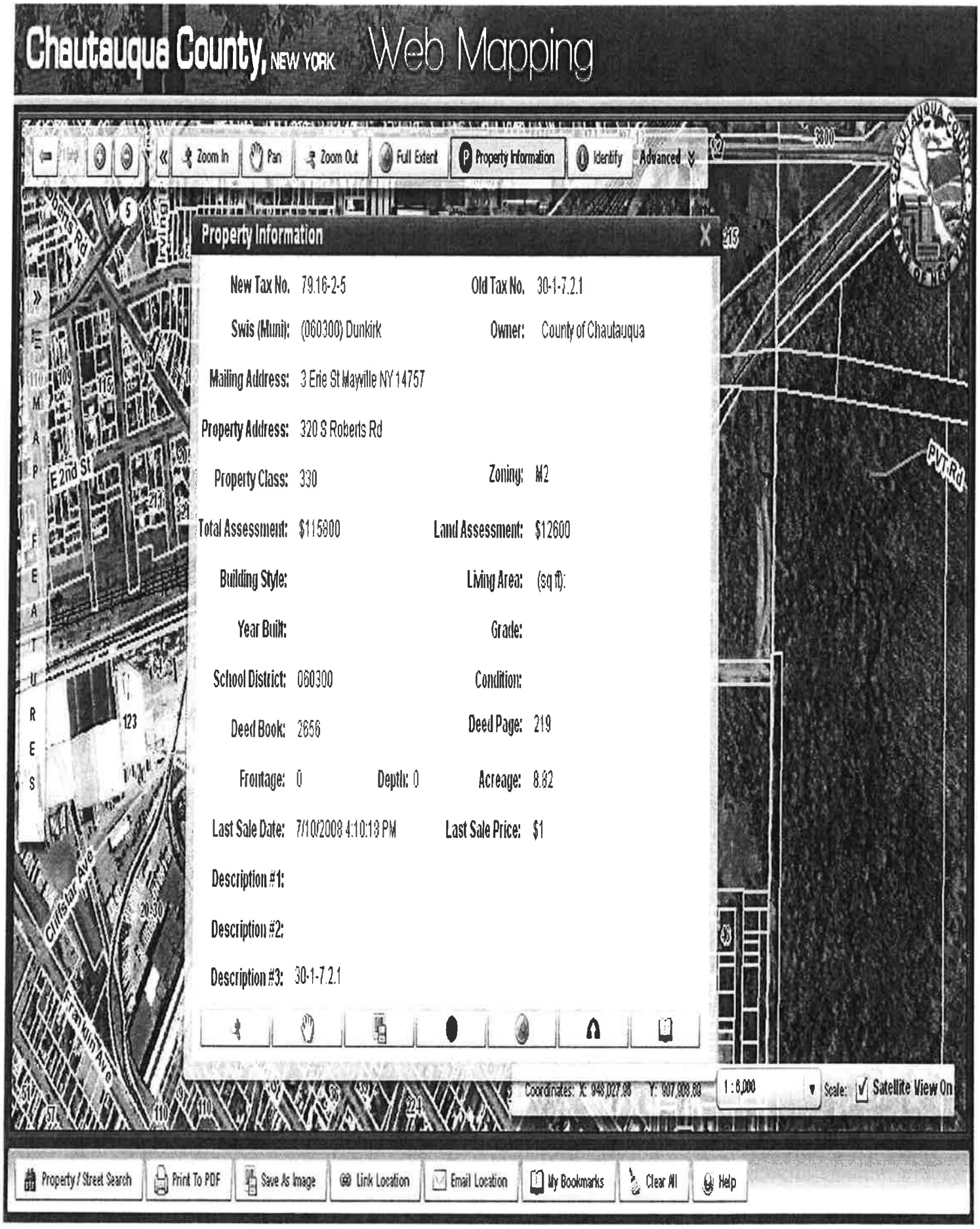


DRAWING OF
BOUNDARY SURVEY
PROPERTY OF
ALUMAX EXTRUSIONS, INC.
City of Dunkirk
Chautauqua County New York
Scale: 1" = 100' January 22, 2001

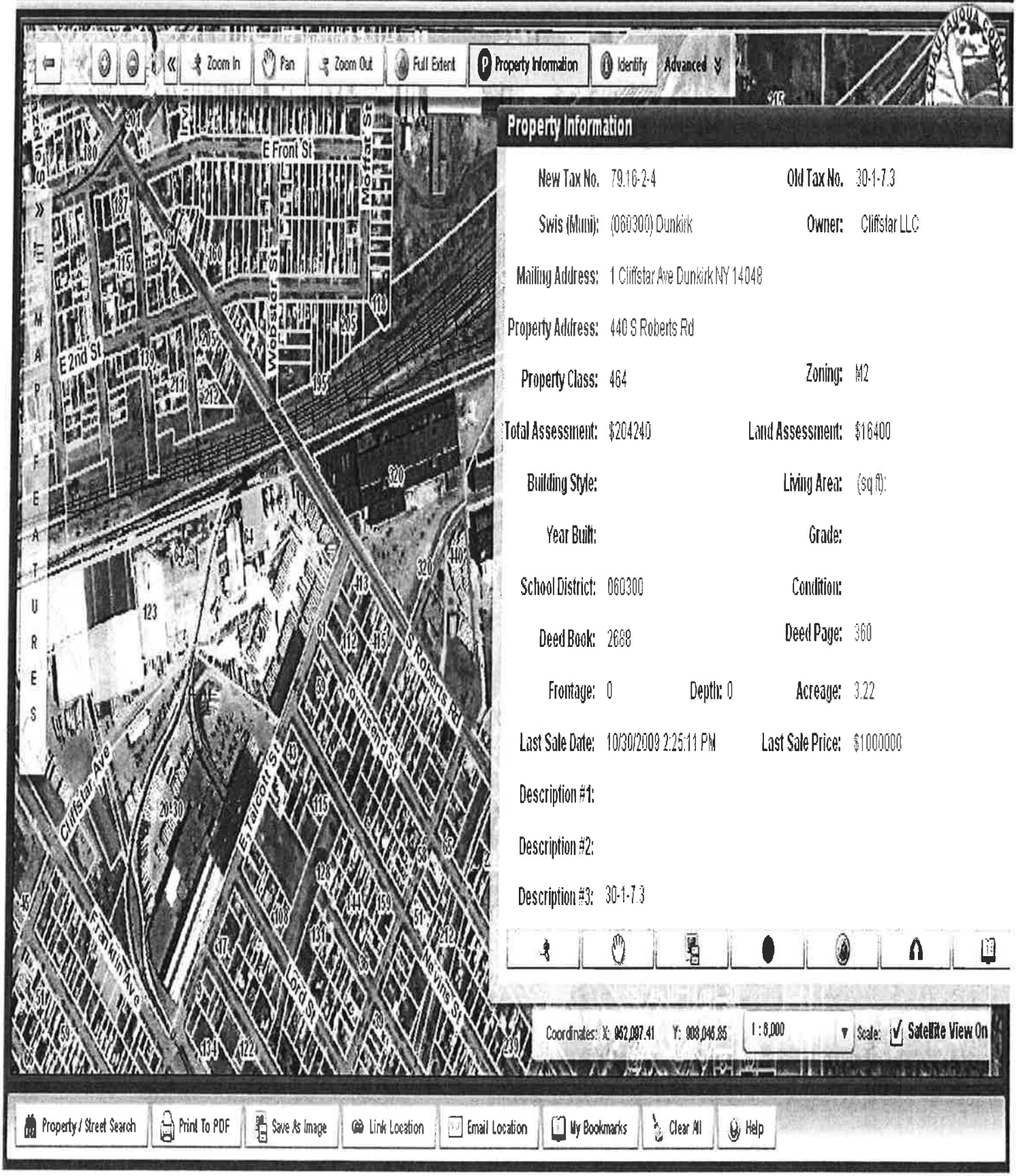
Land Surveyor, NYS Lic. No. 49520 (GROUND SNOW COVERED)

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

WOODBURY SURVEYING – OFFICE OF WESLEY J. WOODBURY STRAIGHT, LS 12 E. 5TH 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**	

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 2

Photographs

Southern portion of Site, south of Millennium Parkway, facing east.

Ditch located south of Millennium Parkway on the southern portion of Site facing east.

Ditch located south of Millennium Parkway on southern portion of Site facing west.

Ditch located north of Millennium Parkway on central portion of Site facing east.

Office building on western portion of Site.

Western portion of Site facing west.

Central portion of Site facing east.

Central portion of Site facing west.

Central portion of Site facing southeast.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

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: 12.0

Reporting Period: December 15, 2015 to December 14, 2016

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

Box 2

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

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

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

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. 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 Restriction: 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 Restriction: 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 GEORGE SPANOS (print name) at 454 N. WORK ST. FALCONER NY 14733 (print business address)

am certifying as Owner's representative (Owner or Remedial Party)

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

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

12-9-16
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

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

I ROBERT NAPIERALSKI at 300 PEARL ST., SUITE 130, BUFFALO, NY.
print name print business address

am certifying as a Qualified Environmental Professional for the COUNTY OF CHAUTAUQUA
(Owner or Remedial Party)

CPG 10110 — 1/4/17

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

Stamp (Required for PE)

Date

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 4

Groundwater Sampling Logs

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

Well I.D. AL2

Site Location: Alumax Extrusions Site, Dunkirk, NY — Job No. **2160148**

Sample Date: Dec. 14 2016

LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	14:40	14:48	14:57	15:07	15:18		
Depth of well	17.8						
Depth to water	4.3"						
Well diameter	2"						
Well volume (gallons)	2.2						
Purging device	P.P.						
Containment device							
Purge time							
Gallons purged		2.2	2.2	2.2			
Sample device							
Field Parameters							
Temperature	6.8	6.6	6.1	6.2	6.1		
pH measurement	7.75	7.44	7.61	7.62	7.6		
Conductivity (mS/cm)	0.663	0.666	0.612	0.644	0.648		
ORP/Eh (mV)	-28.9	-22.1	-20	-20.1	-22.4		
Turbidity (NTUs)	3.5	7.1	6.1	6.1	6.4		

WEATHER:

NOTES/FIELD OBSERVATIONS:

- well damaged? - capping at base of well riser intact at time of sampling

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.

sample- AL2 -15:18- 12-14-16

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: Dec. 14 2016
LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	15:30	15:36	15:44	15:51	16:02		
Depth of well	19.9						
Depth to water	6.2'						
Well diameter	2"						
Well volume (gallons)	2.2						
Purging device	PP						
Containment device							
Purge time							
Gallons purged		2.2	2.2	2.2			
Sample device							
Field Parameters							
Temperature	6.7	6.4	6.5	6.3	6.6		
pH measurement	7.7	7.61	7.62	7.68	7.71		
Conductivity (mS/cm)	0.556	0.554	0.551	0.557	0.549		
ORP/Eh (mV)	-42	-39.1	-38.2	-31.6	-34.6		
Turbidity (NTUs)	2	6.2	6.1	4.2	5.7		

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.

Sample-AL-1-1602-12-14-16

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: Dec. 14 2016

LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	16:12	16:20	16:28	16:36	16:44		
Depth of well	11.3						
Depth to water	3.7"						
Well diameter	2"						
Well volume (gallons)	1.2						
Purging device	P.P.						
Containment device							
Purge time							
Gallons purged		1.2	1.2	1.2			
Sample device							
Field Parameters							
Temperature	6.1	5.9	5.7	5.8	5.6		
pH measurement	7.86	7.81	7.8	7.82	7.84		
Conductivity (mS/cm)	0.166	0.177	0.176	0.172	0.171		
ORP/Eh (mV)	110.8	109.6	110.8	107.4	108.3		
Turbidity (NTUs)	217.8	305.4	212.1	170.6	134.9		

WEATHER:

NOTES/FIELD OBSERVATIONS: AL-1 -339 AL-2-86.26 AL-1 & AL-2 - 58.4

- 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.

Sample-AL-7-16:44-12-14-16

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

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: 480-111156-1
Client Project/Site: Former Roblin Steel & Alumax Ext Sites

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

Attn: Chris Kibler

Melissa Deyo

Authorized for release by:
12/29/2016 10:25:41 AM

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

Table of Contents

Definitions/Glossary

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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: 480-111156-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-111156-1

Receipt
The samples were received on 12/15/2016 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA
Method(s) 8260C: The laboratory control sample(LCS) for analytical batch 480-337023 recovered outside control limits for the following analyte: Methyl acetate. Methyl acetate has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. MW-12 (480-111156-1), MW-9R (480-111156-2), MW-7R (480-111156-3), MW-4 (480-111156-4), MW-1 (480-111156-5), EX MW-12 (480-111156-6), EX MW-11R (480-111156-8), AL-2 (480-111156-9), AL-1 (480-111156-10), AL-7 (480-111156-11), FIELD DUPLICATE (480-111156-12) and TRIP BLANK (480-111156-13).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-337023 recovered outside acceptance criteria, low biased, for 2-Hexanone, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, Chloromethane, 4-Methyl-2-pentanone, 2-Butanone. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: MW-12 (480-111156-1), MW-9R (480-111156-2), MW-7R (480-111156-3), MW-4 (480-111156-4), MW-1 (480-111156-5), EX MW-12 (480-111156-6), EX MW-11R (480-111156-8), AL-2 (480-111156-9), AL-1 (480-111156-10), AL-7 (480-111156-11), FIELD DUPLICATE (480-111156-12) and TRIP BLANK (480-111156-13).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-9R (480-111156-2), EX MW-11R (480-111156-8), AL-1 (480-111156-10), FIELD DUPLICATE (480-111156-12), (480-111156-B-2 MS) and (480-111156-B-2 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted due to the abundance of non-target analytes: AL-2 (480-111156-9). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-337188 recovered outside acceptance criteria, low biased, for 2-Hexanone and 4-Methyl-2-pentanone (MIBK). A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The following sample is impacted: MW-2R (480-111156-7).

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: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: MW-12 — Lab Sample ID: 480-111156-1

No Detections.

Client Sample ID: MW-9R — Lab Sample ID: 480-111156-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	500	F1	10	8.1	ug/L	10		8260C	Total/NA
Methylene Chloride	4.8	J	10	4.4	ug/L	10		8260C	Total/NA
Trichloroethene	230	F1	10	4.6	ug/L	10		8260C	Total/NA

Client Sample ID: MW-7R — Lab Sample ID: 480-111156-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.9		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	2.0		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	3.7		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-4 — Lab Sample ID: 480-111156-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.91	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 480-111156-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.19	J	1.0	0.19	ug/L	1		8260C	Total/NA
Trichloroethene	0.53	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: EX MW-12 — Lab Sample ID: 480-111156-6

No Detections.

Client Sample ID: MW-2R — Lab Sample ID: 480-111156-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.5		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	5.0		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	1.3		1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	42		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: EX MW-11R — Lab Sample ID: 480-111156-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	11	J	20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	1000		20	16	ug/L	20		8260C	Total/NA
Cyclohexane	24		20	3.6	ug/L	20		8260C	Total/NA
Methylcyclohexane	20		20	3.2	ug/L	20		8260C	Total/NA
Methylene Chloride	12	J	20	8.8	ug/L	20		8260C	Total/NA
Trichloroethene	91		20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride	360		20	18	ug/L	20		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: AL-2 — Lab Sample ID: 480-111156-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	9.0	J	20	8.2	ug/L	20		8260C	Total/NA
Methylene Chloride	12	J	20	8.8	ug/L	20		8260C	Total/NA

Client Sample ID: AL-1 — Lab Sample ID: 480-111156-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2500		80	65	ug/L	80		8260C	Total/NA
Methylene Chloride	45	J	80	35	ug/L	80		8260C	Total/NA
Trichloroethene	130		80	37	ug/L	80		8260C	Total/NA
Vinyl chloride	850		80	72	ug/L	80		8260C	Total/NA

Client Sample ID: AL-7 — Lab Sample ID: 480-111156-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.0		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	2.0		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: FIELD DUPLICATE — Lab Sample ID: 480-111156-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		25	20	ug/L	25		8260C	Total/NA
Cyclohexane	29		25	4.5	ug/L	25		8260C	Total/NA
Methylcyclohexane	18	J	25	4.0	ug/L	25		8260C	Total/NA
Methylene Chloride	15	J	25	11	ug/L	25		8260C	Total/NA
Trichloroethene	90		25	12	ug/L	25		8260C	Total/NA
Vinyl chloride	390		25	23	ug/L	25		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-111156-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: MW-12
Date Collected: 12/14/16 09:15
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-1
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		1.0	0.82	ug/L			12/19/16 13:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/19/16 13:10	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/19/16 13:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/19/16 13:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/19/16 13:10	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/19/16 13:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/19/16 13:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/19/16 13:10	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/19/16 13:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/19/16 13:10	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/19/16 13:10	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/19/16 13:10	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/19/16 13:10	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/19/16 13:10	1
2-Hexanone	ND		5.0	1.2	ug/L			12/19/16 13:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/19/16 13:10	1
Acetone	ND		10	3.0	ug/L			12/19/16 13:10	1
Benzene	ND		1.0	0.41	ug/L			12/19/16 13:10	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/19/16 13:10	1
Bromoform	ND		1.0	0.26	ug/L			12/19/16 13:10	1
Bromomethane	ND		1.0	0.69	ug/L			12/19/16 13:10	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/19/16 13:10	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/19/16 13:10	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/19/16 13:10	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/19/16 13:10	1
Chloroethane	ND		1.0	0.32	ug/L			12/19/16 13:10	1
Chloroform	ND		1.0	0.34	ug/L			12/19/16 13:10	1
Chloromethane	ND		1.0	0.35	ug/L			12/19/16 13:10	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/19/16 13:10	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/19/16 13:10	1
Cyclohexane	ND		1.0	0.18	ug/L			12/19/16 13:10	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/19/16 13:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/19/16 13:10	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/19/16 13:10	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/19/16 13:10	1
Methyl acetate	ND	*	2.5	1.3	ug/L			12/19/16 13:10	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/19/16 13:10	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/19/16 13:10	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/19/16 13:10	1
Styrene	ND		1.0	0.73	ug/L			12/19/16 13:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/16 13:10	1
Toluene	ND		1.0	0.51	ug/L			12/19/16 13:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/16 13:10	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/19/16 13:10	1
Trichloroethene	ND		1.0	0.46	ug/L			12/19/16 13:10	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/19/16 13:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/16 13:10	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/19/16 13:10	1

Client Sample ID: MW-12

Lab Sample ID: 480-111156-1

Date Collected: 12/14/16 09:15
Matrix: Water
Date Received: 12/15/16 11:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/19/16 13:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*12/19/16 13:10*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/19/16 13:10*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*12/19/16 13:10*	*1*

Client Sample ID: MW-9R

Lab Sample ID: 480-111156-2

Date Collected: 12/14/16 10:11
Matrix: Water
Date Received: 12/15/16 11:00

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			12/19/16 13:37	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			12/19/16 13:37	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			12/19/16 13:37	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			12/19/16 13:37	10
1,1-Dichloroethane	ND		10	3.8	ug/L			12/19/16 13:37	10
1,1-Dichloroethene	ND		10	2.9	ug/L			12/19/16 13:37	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			12/19/16 13:37	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			12/19/16 13:37	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			12/19/16 13:37	10
1,2-Dichloroethane	ND		10	2.1	ug/L			12/19/16 13:37	10
1,2-Dichloropropane	ND		10	7.2	ug/L			12/19/16 13:37	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			12/19/16 13:37	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			12/19/16 13:37	10
2-Butanone (MEK)	ND		100	13	ug/L			12/19/16 13:37	10
2-Hexanone	ND		50	12	ug/L			12/19/16 13:37	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			12/19/16 13:37	10
Acetone	ND		100	30	ug/L			12/19/16 13:37	10
Benzene	ND		10	4.1	ug/L			12/19/16 13:37	10
Bromodichloromethane	ND		10	3.9	ug/L			12/19/16 13:37	10
Bromoform	ND		10	2.6	ug/L			12/19/16 13:37	10
Bromomethane	ND		10	6.9	ug/L			12/19/16 13:37	10
Carbon disulfide	ND		10	1.9	ug/L			12/19/16 13:37	10
Carbon tetrachloride	ND		10	2.7	ug/L			12/19/16 13:37	10
Chlorobenzene	ND		10	7.5	ug/L			12/19/16 13:37	10
Dibromochloromethane	ND		10	3.2	ug/L			12/19/16 13:37	10
Chloroethane	ND		10	3.2	ug/L			12/19/16 13:37	10
Chloroform	ND		10	3.4	ug/L			12/19/16 13:37	10
Chloromethane	ND		10	3.5	ug/L			12/19/16 13:37	10
cis-1,2-Dichloroethene	**500**	**F1**	10	8.1	ug/L			12/19/16 13:37	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			12/19/16 13:37	10
Cyclohexane	ND		10	1.8	ug/L			12/19/16 13:37	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			12/19/16 13:37	10
Ethylbenzene	ND		10	7.4	ug/L			12/19/16 13:37	10
1,2-Dibromoethane	ND		10	7.3	ug/L			12/19/16 13:37	10
Isopropylbenzene	ND		10	7.9	ug/L			12/19/16 13:37	10
Methyl acetate	ND	F1 *	25	13	ug/L			12/19/16 13:37	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			12/19/16 13:37	10
Methylcyclohexane	ND		10	1.6	ug/L			12/19/16 13:37	10
Methylene Chloride	**4.8**	**J**	10	4.4	ug/L			12/19/16 13:37	10

Client Sample ID: MW-9R

Date Collected: 12/14/16 10:11
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		10	7.3	ug/L			12/19/16 13:37	10
Tetrachloroethene	ND		10	3.6	ug/L			12/19/16 13:37	10
Toluene	ND		10	5.1	ug/L			12/19/16 13:37	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			12/19/16 13:37	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			12/19/16 13:37	10
Trichloroethene	**230**	**F1**	10	4.6	ug/L			12/19/16 13:37	10
Trichlorofluoromethane	ND		10	8.8	ug/L			12/19/16 13:37	10
Vinyl chloride	ND		10	9.0	ug/L			12/19/16 13:37	10
Xylenes, Total	ND		20	6.6	ug/L			12/19/16 13:37	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/19/16 13:37*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*12/19/16 13:37*	*10*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/19/16 13:37*	*10*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*12/19/16 13:37*	*10*

Client Sample ID: MW-7R

Date Collected: 12/14/16 11:06
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-3
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			12/19/16 14:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/19/16 14:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/19/16 14:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/19/16 14:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/19/16 14:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/19/16 14:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/19/16 14:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/19/16 14:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/19/16 14:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/19/16 14:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/19/16 14:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/19/16 14:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/19/16 14:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/19/16 14:04	1
2-Hexanone	ND		5.0	1.2	ug/L			12/19/16 14:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/19/16 14:04	1
Acetone	ND		10	3.0	ug/L			12/19/16 14:04	1
Benzene	ND		1.0	0.41	ug/L			12/19/16 14:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/19/16 14:04	1
Bromoform	ND		1.0	0.26	ug/L			12/19/16 14:04	1
Bromomethane	ND		1.0	0.69	ug/L			12/19/16 14:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/19/16 14:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/19/16 14:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/19/16 14:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/19/16 14:04	1
Chloroethane	ND		1.0	0.32	ug/L			12/19/16 14:04	1
Chloroform	ND		1.0	0.34	ug/L			12/19/16 14:04	1
Chloromethane	ND		1.0	0.35	ug/L			12/19/16 14:04	1

Client Sample ID: MW-7R

Date Collected: 12/14/16 11:06
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-3
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	**5.9**		1.0	0.81	ug/L			12/19/16 14:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/19/16 14:04	1
Cyclohexane	ND		1.0	0.18	ug/L			12/19/16 14:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/19/16 14:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/19/16 14:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/19/16 14:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/19/16 14:04	1
Methyl acetate	ND	*	2.5	1.3	ug/L			12/19/16 14:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/19/16 14:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/19/16 14:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/19/16 14:04	1
Styrene	ND		1.0	0.73	ug/L			12/19/16 14:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/16 14:04	1
Toluene	ND		1.0	0.51	ug/L			12/19/16 14:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/16 14:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/19/16 14:04	1
Trichloroethene	**2.0**		1.0	0.46	ug/L			12/19/16 14:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/19/16 14:04	1
Vinyl chloride	**3.7**		1.0	0.90	ug/L			12/19/16 14:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/19/16 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/19/16 14:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*12/19/16 14:04*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/19/16 14:04*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*12/19/16 14:04*	*1*

Client Sample ID: MW-4

Date Collected: 12/14/16 11:51
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-4
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		1.0	0.82	ug/L			12/19/16 14:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/19/16 14:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/19/16 14:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/19/16 14:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/19/16 14:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/19/16 14:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/19/16 14:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/19/16 14:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/19/16 14:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/19/16 14:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/19/16 14:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/19/16 14:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/19/16 14:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/19/16 14:31	1
2-Hexanone	ND		5.0	1.2	ug/L			12/19/16 14:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/19/16 14:31	1
Acetone	ND		10	3.0	ug/L			12/19/16 14:31	1

Client Sample ID: MW-4

Lab Sample ID: 480-111156-4

Date Collected: 12/14/16 11:51

Matrix: Water

Date Received: 12/15/16 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.41	ug/L			12/19/16 14:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/19/16 14:31	1
Bromoform	ND		1.0	0.26	ug/L			12/19/16 14:31	1
Bromomethane	ND		1.0	0.69	ug/L			12/19/16 14:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/19/16 14:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/19/16 14:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/19/16 14:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/19/16 14:31	1
Chloroethane	ND		1.0	0.32	ug/L			12/19/16 14:31	1
Chloroform	ND		1.0	0.34	ug/L			12/19/16 14:31	1
Chloromethane	ND		1.0	0.35	ug/L			12/19/16 14:31	1
cis-1,2-Dichloroethene	**1.2**		1.0	0.81	ug/L			12/19/16 14:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/19/16 14:31	1
Cyclohexane	ND		1.0	0.18	ug/L			12/19/16 14:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/19/16 14:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/19/16 14:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/19/16 14:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/19/16 14:31	1
Methyl acetate	ND	*	2.5	1.3	ug/L			12/19/16 14:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/19/16 14:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/19/16 14:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/19/16 14:31	1
Styrene	ND		1.0	0.73	ug/L			12/19/16 14:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/16 14:31	1
Toluene	ND		1.0	0.51	ug/L			12/19/16 14:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/16 14:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/19/16 14:31	1
Trichloroethene	**0.91**	**J**	1.0	0.46	ug/L			12/19/16 14:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/19/16 14:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/16 14:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/19/16 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*12/19/16 14:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*12/19/16 14:31*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/19/16 14:31*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 123*		*12/19/16 14:31*	*1*

Client Sample ID: MW-1

Lab Sample ID: 480-111156-5

Date Collected: 12/14/16 12:32

Matrix: Water

Date Received: 12/15/16 11:00

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			12/19/16 14:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/19/16 14:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/19/16 14:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/19/16 14:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/19/16 14:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/19/16 14:58	1

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: MW-1
Date Collected: 12/14/16 12:32
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-5
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		1.0	0.41	ug/L			12/19/16 14:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/19/16 14:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/19/16 14:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/19/16 14:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/19/16 14:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/19/16 14:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/19/16 14:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/19/16 14:58	1
2-Hexanone	ND		5.0	1.2	ug/L			12/19/16 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/19/16 14:58	1
Acetone	ND		10	3.0	ug/L			12/19/16 14:58	1
Benzene	ND		1.0	0.41	ug/L			12/19/16 14:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/19/16 14:58	1
Bromoform	ND		1.0	0.26	ug/L			12/19/16 14:58	1
Bromomethane	ND		1.0	0.69	ug/L			12/19/16 14:58	1
Carbon disulfide	**0.19**	**J**	1.0	0.19	ug/L			12/19/16 14:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/19/16 14:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/19/16 14:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/19/16 14:58	1
Chloroethane	ND		1.0	0.32	ug/L			12/19/16 14:58	1
Chloroform	ND		1.0	0.34	ug/L			12/19/16 14:58	1
Chloromethane	ND		1.0	0.35	ug/L			12/19/16 14:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/19/16 14:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/19/16 14:58	1
Cyclohexane	ND		1.0	0.18	ug/L			12/19/16 14:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/19/16 14:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/19/16 14:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/19/16 14:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/19/16 14:58	1
Methyl acetate	ND	*	2.5	1.3	ug/L			12/19/16 14:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/19/16 14:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/19/16 14:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/19/16 14:58	1
Styrene	ND		1.0	0.73	ug/L			12/19/16 14:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/16 14:58	1
Toluene	ND		1.0	0.51	ug/L			12/19/16 14:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/16 14:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/19/16 14:58	1
Trichloroethene	**0.53**	**J**	1.0	0.46	ug/L			12/19/16 14:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/19/16 14:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/16 14:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/19/16 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*12/19/16 14:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*		*12/19/16 14:58*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/19/16 14:58*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/19/16 14:58*	*1*

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: EX MW-12
Date Collected: 12/14/16 13:05
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-6
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		1.0	0.82	ug/L			12/19/16 15:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/19/16 15:24	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/19/16 15:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/19/16 15:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/19/16 15:24	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/19/16 15:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/19/16 15:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/19/16 15:24	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/19/16 15:24	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/19/16 15:24	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/19/16 15:24	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/19/16 15:24	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/19/16 15:24	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/19/16 15:24	1
2-Hexanone	ND		5.0	1.2	ug/L			12/19/16 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/19/16 15:24	1
Acetone	ND		10	3.0	ug/L			12/19/16 15:24	1
Benzene	ND		1.0	0.41	ug/L			12/19/16 15:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/19/16 15:24	1
Bromoform	ND		1.0	0.26	ug/L			12/19/16 15:24	1
Bromomethane	ND		1.0	0.69	ug/L			12/19/16 15:24	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/19/16 15:24	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/19/16 15:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/19/16 15:24	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/19/16 15:24	1
Chloroethane	ND		1.0	0.32	ug/L			12/19/16 15:24	1
Chloroform	ND		1.0	0.34	ug/L			12/19/16 15:24	1
Chloromethane	ND		1.0	0.35	ug/L			12/19/16 15:24	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/19/16 15:24	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/19/16 15:24	1
Cyclohexane	ND		1.0	0.18	ug/L			12/19/16 15:24	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/19/16 15:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/19/16 15:24	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/19/16 15:24	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/19/16 15:24	1
Methyl acetate	ND	*	2.5	1.3	ug/L			12/19/16 15:24	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/19/16 15:24	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/19/16 15:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/19/16 15:24	1
Styrene	ND		1.0	0.73	ug/L			12/19/16 15:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/16 15:24	1
Toluene	ND		1.0	0.51	ug/L			12/19/16 15:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/16 15:24	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/19/16 15:24	1
Trichloroethene	ND		1.0	0.46	ug/L			12/19/16 15:24	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/19/16 15:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/16 15:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/19/16 15:24	1

Client Sample ID: EX MW-12

Lab Sample ID: 480-111156-6

Date Collected: 12/14/16 13:05
Matrix: Water
Date Received: 12/15/16 11:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/19/16 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*12/19/16 15:24*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/19/16 15:24*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/19/16 15:24*	*1*

Client Sample ID: MW-2R

Lab Sample ID: 480-111156-7

Date Collected: 12/14/16 13:48
Matrix: Water
Date Received: 12/15/16 11:00

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			12/20/16 01:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/20/16 01:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/20/16 01:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/20/16 01:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/20/16 01:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/20/16 01:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/20/16 01:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/20/16 01:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/20/16 01:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/20/16 01:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/20/16 01:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/20/16 01:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/20/16 01:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/20/16 01:52	1
2-Hexanone	ND		5.0	1.2	ug/L			12/20/16 01:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/20/16 01:52	1
Acetone	ND		10	3.0	ug/L			12/20/16 01:52	1
Benzene	**3.5**		1.0	0.41	ug/L			12/20/16 01:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/20/16 01:52	1
Bromoform	ND		1.0	0.26	ug/L			12/20/16 01:52	1
Bromomethane	ND		1.0	0.69	ug/L			12/20/16 01:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/20/16 01:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/20/16 01:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/20/16 01:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/20/16 01:52	1
Chloroethane	ND		1.0	0.32	ug/L			12/20/16 01:52	1
Chloroform	ND		1.0	0.34	ug/L			12/20/16 01:52	1
Chloromethane	ND		1.0	0.35	ug/L			12/20/16 01:52	1
cis-1,2-Dichloroethene	**11**		1.0	0.81	ug/L			12/20/16 01:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/20/16 01:52	1
Cyclohexane	**5.0**		1.0	0.18	ug/L			12/20/16 01:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/20/16 01:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/20/16 01:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/20/16 01:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/20/16 01:52	1
Methyl acetate	ND		2.5	1.3	ug/L			12/20/16 01:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/20/16 01:52	1
Methylcyclohexane	**1.3**		1.0	0.16	ug/L			12/20/16 01:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/20/16 01:52	1

Client Sample ID: MW-2R
Date Collected: 12/14/16 13:48
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			12/20/16 01:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/20/16 01:52	1
Toluene	ND		1.0	0.51	ug/L			12/20/16 01:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/20/16 01:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/20/16 01:52	1
Trichloroethene	ND		1.0	0.46	ug/L			12/20/16 01:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/20/16 01:52	1
Vinyl chloride	**42**		1.0	0.90	ug/L			12/20/16 01:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/20/16 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/20/16 01:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*12/20/16 01:52*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/20/16 01:52*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*12/20/16 01:52*	*1*

Client Sample ID: EX MW-11R
Date Collected: 12/14/16 14:20
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-8
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		20	16	ug/L			12/19/16 16:18	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			12/19/16 16:18	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			12/19/16 16:18	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			12/19/16 16:18	20
1,1-Dichloroethane	ND		20	7.6	ug/L			12/19/16 16:18	20
1,1-Dichloroethene	**11**	**J**	20	5.8	ug/L			12/19/16 16:18	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			12/19/16 16:18	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			12/19/16 16:18	20
1,2-Dichlorobenzene	ND		20	16	ug/L			12/19/16 16:18	20
1,2-Dichloroethane	ND		20	4.2	ug/L			12/19/16 16:18	20
1,2-Dichloropropane	ND		20	14	ug/L			12/19/16 16:18	20
1,3-Dichlorobenzene	ND		20	16	ug/L			12/19/16 16:18	20
1,4-Dichlorobenzene	ND		20	17	ug/L			12/19/16 16:18	20
2-Butanone (MEK)	ND		200	26	ug/L			12/19/16 16:18	20
2-Hexanone	ND		100	25	ug/L			12/19/16 16:18	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			12/19/16 16:18	20
Acetone	ND		200	60	ug/L			12/19/16 16:18	20
Benzene	ND		20	8.2	ug/L			12/19/16 16:18	20
Bromodichloromethane	ND		20	7.8	ug/L			12/19/16 16:18	20
Bromoform	ND		20	5.2	ug/L			12/19/16 16:18	20
Bromomethane	ND		20	14	ug/L			12/19/16 16:18	20
Carbon disulfide	ND		20	3.8	ug/L			12/19/16 16:18	20
Carbon tetrachloride	ND		20	5.4	ug/L			12/19/16 16:18	20
Chlorobenzene	ND		20	15	ug/L			12/19/16 16:18	20
Dibromochloromethane	ND		20	6.4	ug/L			12/19/16 16:18	20
Chloroethane	ND		20	6.4	ug/L			12/19/16 16:18	20
Chloroform	ND		20	6.8	ug/L			12/19/16 16:18	20
Chloromethane	ND		20	7.0	ug/L			12/19/16 16:18	20

Client Sample ID: EX MW-11R

Lab Sample ID: 480-111156-8

Date Collected: 12/14/16 14:20

Matrix: Water

Date Received: 12/15/16 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1000**		20	16	ug/L			12/19/16 16:18	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			12/19/16 16:18	20
Cyclohexane	**24**		20	3.6	ug/L			12/19/16 16:18	20
Dichlorodifluoromethane	ND		20	14	ug/L			12/19/16 16:18	20
Ethylbenzene	ND		20	15	ug/L			12/19/16 16:18	20
1,2-Dibromoethane	ND		20	15	ug/L			12/19/16 16:18	20
Isopropylbenzene	ND		20	16	ug/L			12/19/16 16:18	20
Methyl acetate	ND	*	50	26	ug/L			12/19/16 16:18	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			12/19/16 16:18	20
Methylcyclohexane	**20**		20	3.2	ug/L			12/19/16 16:18	20
Methylene Chloride	**12**	**J**	20	8.8	ug/L			12/19/16 16:18	20
Styrene	ND		20	15	ug/L			12/19/16 16:18	20
Tetrachloroethene	ND		20	7.2	ug/L			12/19/16 16:18	20
Toluene	ND		20	10	ug/L			12/19/16 16:18	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			12/19/16 16:18	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			12/19/16 16:18	20
Trichloroethene	**91**		20	9.2	ug/L			12/19/16 16:18	20
Trichlorofluoromethane	ND		20	18	ug/L			12/19/16 16:18	20
Vinyl chloride	**360**		20	18	ug/L			12/19/16 16:18	20
Xylenes, Total	ND		40	13	ug/L			12/19/16 16:18	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/19/16 16:18*	*20*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*12/19/16 16:18*	*20*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/19/16 16:18*	*20*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*12/19/16 16:18*	*20*

Client Sample ID: AL-2

Lab Sample ID: 480-111156-9

Date Collected: 12/14/16 15:18

Matrix: Water

Date Received: 12/15/16 11:00

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			12/19/16 16:45	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			12/19/16 16:45	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			12/19/16 16:45	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			12/19/16 16:45	20
1,1-Dichloroethane	ND		20	7.6	ug/L			12/19/16 16:45	20
1,1-Dichloroethene	ND		20	5.8	ug/L			12/19/16 16:45	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			12/19/16 16:45	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			12/19/16 16:45	20
1,2-Dichlorobenzene	ND		20	16	ug/L			12/19/16 16:45	20
1,2-Dichloroethane	ND		20	4.2	ug/L			12/19/16 16:45	20
1,2-Dichloropropane	ND		20	14	ug/L			12/19/16 16:45	20
1,3-Dichlorobenzene	ND		20	16	ug/L			12/19/16 16:45	20
1,4-Dichlorobenzene	ND		20	17	ug/L			12/19/16 16:45	20
2-Butanone (MEK)	ND		200	26	ug/L			12/19/16 16:45	20
2-Hexanone	ND		100	25	ug/L			12/19/16 16:45	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			12/19/16 16:45	20
Acetone	ND		200	60	ug/L			12/19/16 16:45	20

Client Sample ID: AL-2
Date Collected: 12/14/16 15:18
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**9.0**	**J**	20	8.2	ug/L			12/19/16 16:45	20
Bromodichloromethane	ND		20	7.8	ug/L			12/19/16 16:45	20
Bromoform	ND		20	5.2	ug/L			12/19/16 16:45	20
Bromomethane	ND		20	14	ug/L			12/19/16 16:45	20
Carbon disulfide	ND		20	3.8	ug/L			12/19/16 16:45	20
Carbon tetrachloride	ND		20	5.4	ug/L			12/19/16 16:45	20
Chlorobenzene	ND		20	15	ug/L			12/19/16 16:45	20
Dibromochloromethane	ND		20	6.4	ug/L			12/19/16 16:45	20
Chloroethane	ND		20	6.4	ug/L			12/19/16 16:45	20
Chloroform	ND		20	6.8	ug/L			12/19/16 16:45	20
Chloromethane	ND		20	7.0	ug/L			12/19/16 16:45	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			12/19/16 16:45	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			12/19/16 16:45	20
Cyclohexane	ND		20	3.6	ug/L			12/19/16 16:45	20
Dichlorodifluoromethane	ND		20	14	ug/L			12/19/16 16:45	20
Ethylbenzene	ND		20	15	ug/L			12/19/16 16:45	20
1,2-Dibromoethane	ND		20	15	ug/L			12/19/16 16:45	20
Isopropylbenzene	ND		20	16	ug/L			12/19/16 16:45	20
Methyl acetate	ND	*	50	26	ug/L			12/19/16 16:45	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			12/19/16 16:45	20
Methylcyclohexane	ND		20	3.2	ug/L			12/19/16 16:45	20
Methylene Chloride	**12**	**J**	20	8.8	ug/L			12/19/16 16:45	20
Styrene	ND		20	15	ug/L			12/19/16 16:45	20
Tetrachloroethene	ND		20	7.2	ug/L			12/19/16 16:45	20
Toluene	ND		20	10	ug/L			12/19/16 16:45	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			12/19/16 16:45	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			12/19/16 16:45	20
Trichloroethene	ND		20	9.2	ug/L			12/19/16 16:45	20
Trichlorofluoromethane	ND		20	18	ug/L			12/19/16 16:45	20
Vinyl chloride	ND		20	18	ug/L			12/19/16 16:45	20
Xylenes, Total	ND		40	13	ug/L			12/19/16 16:45	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/19/16 16:45*	*20*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*		*12/19/16 16:45*	*20*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/19/16 16:45*	*20*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*12/19/16 16:45*	*20*

Client Sample ID: AL-1
Date Collected: 12/14/16 16:02
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-10
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		80	66	ug/L			12/19/16 17:12	80
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			12/19/16 17:12	80
1,1,2-Trichloroethane	ND		80	18	ug/L			12/19/16 17:12	80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			12/19/16 17:12	80
1,1-Dichloroethane	ND		80	30	ug/L			12/19/16 17:12	80
1,1-Dichloroethene	ND		80	23	ug/L			12/19/16 17:12	80

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: AL-1
Date Collected: 12/14/16 16:02
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-10
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		80	33	ug/L			12/19/16 17:12	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			12/19/16 17:12	80
1,2-Dichlorobenzene	ND		80	63	ug/L			12/19/16 17:12	80
1,2-Dichloroethane	ND		80	17	ug/L			12/19/16 17:12	80
1,2-Dichloropropane	ND		80	58	ug/L			12/19/16 17:12	80
1,3-Dichlorobenzene	ND		80	62	ug/L			12/19/16 17:12	80
1,4-Dichlorobenzene	ND		80	67	ug/L			12/19/16 17:12	80
2-Butanone (MEK)	ND		800	110	ug/L			12/19/16 17:12	80
2-Hexanone	ND		400	99	ug/L			12/19/16 17:12	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			12/19/16 17:12	80
Acetone	ND		800	240	ug/L			12/19/16 17:12	80
Benzene	ND		80	33	ug/L			12/19/16 17:12	80
Bromodichloromethane	ND		80	31	ug/L			12/19/16 17:12	80
Bromoform	ND		80	21	ug/L			12/19/16 17:12	80
Bromomethane	ND		80	55	ug/L			12/19/16 17:12	80
Carbon disulfide	ND		80	15	ug/L			12/19/16 17:12	80
Carbon tetrachloride	ND		80	22	ug/L			12/19/16 17:12	80
Chlorobenzene	ND		80	60	ug/L			12/19/16 17:12	80
Dibromochloromethane	ND		80	26	ug/L			12/19/16 17:12	80
Chloroethane	ND		80	26	ug/L			12/19/16 17:12	80
Chloroform	ND		80	27	ug/L			12/19/16 17:12	80
Chloromethane	ND		80	28	ug/L			12/19/16 17:12	80
cis-1,2-Dichloroethene	**2500**		80	65	ug/L			12/19/16 17:12	80
cis-1,3-Dichloropropene	ND		80	29	ug/L			12/19/16 17:12	80
Cyclohexane	ND		80	14	ug/L			12/19/16 17:12	80
Dichlorodifluoromethane	ND		80	54	ug/L			12/19/16 17:12	80
Ethylbenzene	ND		80	59	ug/L			12/19/16 17:12	80
1,2-Dibromoethane	ND		80	58	ug/L			12/19/16 17:12	80
Isopropylbenzene	ND		80	63	ug/L			12/19/16 17:12	80
Methyl acetate	ND	*	200	100	ug/L			12/19/16 17:12	80
Methyl tert-butyl ether	ND		80	13	ug/L			12/19/16 17:12	80
Methylcyclohexane	ND		80	13	ug/L			12/19/16 17:12	80
Methylene Chloride	**45**	**J**	80	35	ug/L			12/19/16 17:12	80
Styrene	ND		80	58	ug/L			12/19/16 17:12	80
Tetrachloroethene	ND		80	29	ug/L			12/19/16 17:12	80
Toluene	ND		80	41	ug/L			12/19/16 17:12	80
trans-1,2-Dichloroethene	ND		80	72	ug/L			12/19/16 17:12	80
trans-1,3-Dichloropropene	ND		80	30	ug/L			12/19/16 17:12	80
Trichloroethene	**130**		80	37	ug/L			12/19/16 17:12	80
Trichlorofluoromethane	ND		80	70	ug/L			12/19/16 17:12	80
Vinyl chloride	**850**		80	72	ug/L			12/19/16 17:12	80
Xylenes, Total	ND		160	53	ug/L			12/19/16 17:12	80

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/19/16 17:12*	*80*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*12/19/16 17:12*	*80*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/19/16 17:12*	*80*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*12/19/16 17:12*	*80*

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: AL-7
Date Collected: 12/14/16 16:44
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-11
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		1.0	0.82	ug/L			12/19/16 17:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/19/16 17:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/19/16 17:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/19/16 17:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/19/16 17:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/19/16 17:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/19/16 17:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/19/16 17:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/19/16 17:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/19/16 17:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/19/16 17:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/19/16 17:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/19/16 17:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/19/16 17:38	1
2-Hexanone	ND		5.0	1.2	ug/L			12/19/16 17:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/19/16 17:38	1
Acetone	ND		10	3.0	ug/L			12/19/16 17:38	1
Benzene	ND		1.0	0.41	ug/L			12/19/16 17:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/19/16 17:38	1
Bromoform	ND		1.0	0.26	ug/L			12/19/16 17:38	1
Bromomethane	ND		1.0	0.69	ug/L			12/19/16 17:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/19/16 17:38	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/19/16 17:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/19/16 17:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/19/16 17:38	1
Chloroethane	ND		1.0	0.32	ug/L			12/19/16 17:38	1
Chloroform	ND		1.0	0.34	ug/L			12/19/16 17:38	1
Chloromethane	ND		1.0	0.35	ug/L			12/19/16 17:38	1
cis-1,2-Dichloroethene	**7.0**		1.0	0.81	ug/L			12/19/16 17:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/19/16 17:38	1
Cyclohexane	ND		1.0	0.18	ug/L			12/19/16 17:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/19/16 17:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/19/16 17:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/19/16 17:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/19/16 17:38	1
Methyl acetate	ND	*	2.5	1.3	ug/L			12/19/16 17:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/19/16 17:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/19/16 17:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/19/16 17:38	1
Styrene	ND		1.0	0.73	ug/L			12/19/16 17:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/16 17:38	1
Toluene	ND		1.0	0.51	ug/L			12/19/16 17:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/16 17:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/19/16 17:38	1
Trichloroethene	**2.0**		1.0	0.46	ug/L			12/19/16 17:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/19/16 17:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/16 17:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/19/16 17:38	1

Client Sample ID: AL-7

Lab Sample ID: 480-111156-11

Date Collected: 12/14/16 16:44

Matrix: Water

Date Received: 12/15/16 11:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/19/16 17:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*12/19/16 17:38*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*12/19/16 17:38*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*12/19/16 17:38*	*1*

Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 480-111156-12

Date Collected: 12/14/16 00:00

Matrix: Water

Date Received: 12/15/16 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		25	21	ug/L			12/19/16 18:05	25
1,1,2,2-Tetrachloroethane	ND		25	5.3	ug/L			12/19/16 18:05	25
1,1,2-Trichloroethane	ND		25	5.8	ug/L			12/19/16 18:05	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	7.8	ug/L			12/19/16 18:05	25
1,1-Dichloroethane	ND		25	9.5	ug/L			12/19/16 18:05	25
1,1-Dichloroethene	ND		25	7.3	ug/L			12/19/16 18:05	25
1,2,4-Trichlorobenzene	ND		25	10	ug/L			12/19/16 18:05	25
1,2-Dibromo-3-Chloropropane	ND		25	9.8	ug/L			12/19/16 18:05	25
1,2-Dichlorobenzene	ND		25	20	ug/L			12/19/16 18:05	25
1,2-Dichloroethane	ND		25	5.3	ug/L			12/19/16 18:05	25
1,2-Dichloropropane	ND		25	18	ug/L			12/19/16 18:05	25
1,3-Dichlorobenzene	ND		25	20	ug/L			12/19/16 18:05	25
1,4-Dichlorobenzene	ND		25	21	ug/L			12/19/16 18:05	25
2-Butanone (MEK)	ND		250	33	ug/L			12/19/16 18:05	25
2-Hexanone	ND		130	31	ug/L			12/19/16 18:05	25
4-Methyl-2-pentanone (MIBK)	ND		130	53	ug/L			12/19/16 18:05	25
Acetone	ND		250	75	ug/L			12/19/16 18:05	25
Benzene	ND		25	10	ug/L			12/19/16 18:05	25
Bromodichloromethane	ND		25	9.8	ug/L			12/19/16 18:05	25
Bromoform	ND		25	6.5	ug/L			12/19/16 18:05	25
Bromomethane	ND		25	17	ug/L			12/19/16 18:05	25
Carbon disulfide	ND		25	4.8	ug/L			12/19/16 18:05	25
Carbon tetrachloride	ND		25	6.8	ug/L			12/19/16 18:05	25
Chlorobenzene	ND		25	19	ug/L			12/19/16 18:05	25
Dibromochloromethane	ND		25	8.0	ug/L			12/19/16 18:05	25
Chloroethane	ND		25	8.0	ug/L			12/19/16 18:05	25
Chloroform	ND		25	8.5	ug/L			12/19/16 18:05	25
Chloromethane	ND		25	8.8	ug/L			12/19/16 18:05	25
cis-1,2-Dichloroethene	**1100**		25	20	ug/L			12/19/16 18:05	25
cis-1,3-Dichloropropene	ND		25	9.0	ug/L			12/19/16 18:05	25
Cyclohexane	**29**		25	4.5	ug/L			12/19/16 18:05	25
Dichlorodifluoromethane	ND		25	17	ug/L			12/19/16 18:05	25
Ethylbenzene	ND		25	19	ug/L			12/19/16 18:05	25
1,2-Dibromoethane	ND		25	18	ug/L			12/19/16 18:05	25
Isopropylbenzene	ND		25	20	ug/L			12/19/16 18:05	25
Methyl acetate	ND	*	63	33	ug/L			12/19/16 18:05	25
Methyl tert-butyl ether	ND		25	4.0	ug/L			12/19/16 18:05	25
Methylcyclohexane	**18**	**J**	25	4.0	ug/L			12/19/16 18:05	25
Methylene Chloride	**15**	**J**	25	11	ug/L			12/19/16 18:05	25

Client Sample ID: FIELD DUPLICATE

Lab Sample ID: 480-111156-12

Date Collected: 12/14/16 00:00

Matrix: Water

Date Received: 12/15/16 11:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		25	18	ug/L			12/19/16 18:05	25
Tetrachloroethene	ND		25	9.0	ug/L			12/19/16 18:05	25
Toluene	ND		25	13	ug/L			12/19/16 18:05	25
trans-1,2-Dichloroethene	ND		25	23	ug/L			12/19/16 18:05	25
trans-1,3-Dichloropropene	ND		25	9.3	ug/L			12/19/16 18:05	25
Trichloroethene	**90**		25	12	ug/L			12/19/16 18:05	25
Trichlorofluoromethane	ND		25	22	ug/L			12/19/16 18:05	25
Vinyl chloride	**390**		25	23	ug/L			12/19/16 18:05	25
Xylenes, Total	ND		50	17	ug/L			12/19/16 18:05	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*12/19/16 18:05*	*25*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*		*12/19/16 18:05*	*25*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*12/19/16 18:05*	*25*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*12/19/16 18:05*	*25*

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-111156-13

Date Collected: 12/14/16 00:00

Matrix: Water

Date Received: 12/15/16 11:00

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			12/19/16 18:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/19/16 18:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/19/16 18:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/19/16 18:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/19/16 18:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/19/16 18:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/19/16 18:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/19/16 18:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/19/16 18:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/19/16 18:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/19/16 18:32	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/19/16 18:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/19/16 18:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/19/16 18:32	1
2-Hexanone	ND		5.0	1.2	ug/L			12/19/16 18:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/19/16 18:32	1
Acetone	ND		10	3.0	ug/L			12/19/16 18:32	1
Benzene	ND		1.0	0.41	ug/L			12/19/16 18:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/19/16 18:32	1
Bromoform	ND		1.0	0.26	ug/L			12/19/16 18:32	1
Bromomethane	ND		1.0	0.69	ug/L			12/19/16 18:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/19/16 18:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/19/16 18:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/19/16 18:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/19/16 18:32	1
Chloroethane	ND		1.0	0.32	ug/L			12/19/16 18:32	1
Chloroform	ND		1.0	0.34	ug/L			12/19/16 18:32	1
Chloromethane	ND		1.0	0.35	ug/L			12/19/16 18:32	1

Client Sample ID: TRIP BLANK
Date Collected: 12/14/16 00:00
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-13
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			12/19/16 18:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/19/16 18:32	1
Cyclohexane	ND		1.0	0.18	ug/L			12/19/16 18:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/19/16 18:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/19/16 18:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/19/16 18:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/19/16 18:32	1
Methyl acetate	ND	*	2.5	1.3	ug/L			12/19/16 18:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/19/16 18:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/19/16 18:32	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/19/16 18:32	1
Styrene	ND		1.0	0.73	ug/L			12/19/16 18:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/16 18:32	1
Toluene	ND		1.0	0.51	ug/L			12/19/16 18:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/16 18:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/19/16 18:32	1
Trichloroethene	ND		1.0	0.46	ug/L			12/19/16 18:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/19/16 18:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/16 18:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/19/16 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/19/16 18:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*		*12/19/16 18:32*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*12/19/16 18:32*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/19/16 18:32*	*1*

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-111156-1	MW-12	95	95	100	98
480-111156-2	MW-9R	96	97	101	104
480-111156-2 MS	MW-9R	94	95	99	99
480-111156-2 MSD	MW-9R	93	95	101	100
480-111156-3	MW-7R	96	97	99	99
480-111156-4	MW-4	93	92	100	96
480-111156-5	MW-1	92	96	100	101
480-111156-6	EX MW-12	95	95	101	101
480-111156-7	MW-2R	97	102	100	106
480-111156-8	EX MW-11R	97	98	99	102
480-111156-9	AL-2	96	95	100	98
480-111156-10	AL-1	95	93	101	99
480-111156-11	AL-7	95	97	101	102
480-111156-12	FIELD DUPLICATE	94	93	99	99
480-111156-13	TRIP BLANK	95	97	102	101
LCS 480-337023/4	Lab Control Sample	97	96	102	102
LCS 480-337188/4	Lab Control Sample	100	99	100	107
LCSD 480-337188/17	Lab Control Sample Dup	101	106	101	109
MB 480-337023/6	Method Blank	99	92	100	101
MB 480-337188/6	Method Blank	97	102	100	106

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 480-337023/6
Matrix: Water
Analysis Batch: 337023

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			12/19/16 11:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/19/16 11:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/19/16 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/19/16 11:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/19/16 11:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/19/16 11:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/19/16 11:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/19/16 11:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/19/16 11:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/19/16 11:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/19/16 11:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/19/16 11:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/19/16 11:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/19/16 11:14	1
2-Hexanone	ND		5.0	1.2	ug/L			12/19/16 11:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/19/16 11:14	1
Acetone	ND		10	3.0	ug/L			12/19/16 11:14	1
Benzene	ND		1.0	0.41	ug/L			12/19/16 11:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/19/16 11:14	1
Bromoform	ND		1.0	0.26	ug/L			12/19/16 11:14	1
Bromomethane	ND		1.0	0.69	ug/L			12/19/16 11:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/19/16 11:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/19/16 11:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/19/16 11:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/19/16 11:14	1
Chloroethane	ND		1.0	0.32	ug/L			12/19/16 11:14	1
Chloroform	ND		1.0	0.34	ug/L			12/19/16 11:14	1
Chloromethane	ND		1.0	0.35	ug/L			12/19/16 11:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/19/16 11:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/19/16 11:14	1
Cyclohexane	ND		1.0	0.18	ug/L			12/19/16 11:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/19/16 11:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/19/16 11:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/19/16 11:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/19/16 11:14	1
Methyl acetate	ND		2.5	1.3	ug/L			12/19/16 11:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/19/16 11:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/19/16 11:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/19/16 11:14	1
Styrene	ND		1.0	0.73	ug/L			12/19/16 11:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/16 11:14	1
Toluene	ND		1.0	0.51	ug/L			12/19/16 11:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/16 11:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/19/16 11:14	1
Trichloroethene	ND		1.0	0.46	ug/L			12/19/16 11:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/19/16 11:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/16 11:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/19/16 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*99*		*80 - 120*		*12/19/16 11:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*77 - 120*		*12/19/16 11:14*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/19/16 11:14*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/19/16 11:14*	*1*

Lab Sample ID: LCS 480-337023/4
Matrix: Water
Analysis Batch: 337023

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	21.5		ug/L		86	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.5		ug/L		82	76 - 120
1,1,2-Trichloroethane	25.0	20.0		ug/L		80	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.6		ug/L		82	61 - 148
1,1-Dichloroethane	25.0	20.5		ug/L		82	77 - 120
1,1-Dichloroethene	25.0	21.4		ug/L		85	66 - 127
1,2,4-Trichlorobenzene	25.0	21.2		ug/L		85	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	18.3		ug/L		73	56 - 134
1,2-Dichlorobenzene	25.0	22.1		ug/L		89	80 - 124
1,2-Dichloroethane	25.0	21.2		ug/L		85	75 - 120
1,2-Dichloropropane	25.0	21.7		ug/L		87	76 - 120
1,3-Dichlorobenzene	25.0	22.3		ug/L		89	77 - 120
1,4-Dichlorobenzene	25.0	22.3		ug/L		89	80 - 120
2-Butanone (MEK)	125	88.3		ug/L		71	57 - 140
2-Hexanone	125	81.9		ug/L		66	65 - 127
4-Methyl-2-pentanone (MIBK)	125	88.3		ug/L		71	71 - 125
Acetone	125	89.1		ug/L		71	56 - 142
Benzene	25.0	21.1		ug/L		84	71 - 124
Bromodichloromethane	25.0	21.3		ug/L		85	80 - 122
Bromoform	25.0	21.1		ug/L		84	61 - 132
Bromomethane	25.0	22.8		ug/L		91	55 - 144
Carbon disulfide	25.0	18.5		ug/L		74	59 - 134
Carbon tetrachloride	25.0	21.2		ug/L		85	72 - 134
Chlorobenzene	25.0	20.9		ug/L		84	80 - 120
Dibromochloromethane	25.0	20.4		ug/L		82	75 - 125
Chloroethane	25.0	22.2		ug/L		89	69 - 136
Chloroform	25.0	22.3		ug/L		89	73 - 127
Chloromethane	25.0	18.1		ug/L		72	68 - 124
cis-1,2-Dichloroethene	25.0	22.1		ug/L		88	74 - 124
cis-1,3-Dichloropropene	25.0	21.7		ug/L		87	74 - 124
Cyclohexane	25.0	19.9		ug/L		80	59 - 135
Dichlorodifluoromethane	25.0	17.1		ug/L		68	59 - 135
Ethylbenzene	25.0	21.0		ug/L		84	77 - 123
1,2-Dibromoethane	25.0	20.7		ug/L		83	77 - 120
Isopropylbenzene	25.0	21.6		ug/L		86	77 - 122
Methyl acetate	125	90.3	*	ug/L		72	74 - 133
Methyl tert-butyl ether	25.0	21.0		ug/L		84	77 - 120
Methylcyclohexane	25.0	20.9		ug/L		83	68 - 134
Methylene Chloride	25.0	21.2		ug/L		85	75 - 124
Styrene	25.0	21.4		ug/L		86	80 - 120
Tetrachloroethene	25.0	21.2		ug/L		85	74 - 122
Toluene	25.0	21.2		ug/L		85	80 - 122
trans-1,2-Dichloroethene	25.0	21.0		ug/L		84	73 - 127

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

Lab Sample ID: LCS 480-337023/4
Matrix: Water
Analysis Batch: 337023

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	21.1		ug/L		84	80 - 120		
Trichloroethene			25.0	22.1		ug/L		89	74 - 123		
Trichlorofluoromethane			25.0	22.2		ug/L		89	62 - 150		
Vinyl chloride			25.0	19.7		ug/L		79	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: 480-111156-2 MS
Matrix: Water
Analysis Batch: 337023

Client Sample ID: MW-9R
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		250	231		ug/L		92	73 - 126		
1,1,2,2-Tetrachloroethane	ND		250	207		ug/L		83	76 - 120		
1,1,2-Trichloroethane	ND		250	197		ug/L		79	76 - 122		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	229		ug/L		92	61 - 148		
1,1-Dichloroethane	ND		250	211		ug/L		84	77 - 120		
1,1-Dichloroethene	ND		250	211		ug/L		84	66 - 127		
1,2,4-Trichlorobenzene	ND		250	205		ug/L		82	79 - 122		
1,2-Dibromo-3-Chloropropane	ND		250	187		ug/L		75	56 - 134		
1,2-Dichlorobenzene	ND		250	219		ug/L		88	80 - 124		
1,2-Dichloroethane	ND		250	217		ug/L		87	75 - 120		
1,2-Dichloropropane	ND		250	225		ug/L		90	76 - 120		
1,3-Dichlorobenzene	ND		250	225		ug/L		90	77 - 120		
1,4-Dichlorobenzene	ND		250	228		ug/L		91	78 - 124		
2-Butanone (MEK)	ND		1250	956		ug/L		76	57 - 140		
2-Hexanone	ND		1250	863		ug/L		69	65 - 127		
4-Methyl-2-pentanone (MIBK)	ND		1250	910		ug/L		73	71 - 125		
Acetone	ND		1250	912		ug/L		73	56 - 142		
Benzene	ND		250	218		ug/L		87	71 - 124		
Bromodichloromethane	ND		250	202		ug/L		81	80 - 122		
Bromoform	ND		250	191		ug/L		76	61 - 132		
Bromomethane	ND		250	246		ug/L		98	55 - 144		
Carbon disulfide	ND		250	185		ug/L		74	59 - 134		
Carbon tetrachloride	ND		250	215		ug/L		86	72 - 134		
Chlorobenzene	ND		250	214		ug/L		85	80 - 120		
Dibromochloromethane	ND		250	195		ug/L		78	75 - 125		
Chloroethane	ND		250	231		ug/L		92	69 - 136		
Chloroform	ND		250	223		ug/L		89	73 - 127		
Chloromethane	ND		250	181		ug/L		72	68 - 124		
cis-1,2-Dichloroethene	500	F1	250	622	F1	ug/L		50	74 - 124		
cis-1,3-Dichloropropene	ND		250	218		ug/L		87	74 - 124		
Cyclohexane	ND		250	211		ug/L		84	59 - 135		

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

Lab Sample ID: 480-111156-2 MS
Matrix: Water
Analysis Batch: 337023

Client Sample ID: MW-9R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		250	191		ug/L		76	59 - 135
Ethylbenzene	ND		250	213		ug/L		85	77 - 123
1,2-Dibromoethane	ND		250	215		ug/L		86	77 - 120
Isopropylbenzene	ND		250	226		ug/L		90	77 - 122
Methyl acetate	ND	F1 *	1250	877	F1	ug/L		70	74 - 133
Methyl tert-butyl ether	ND		250	198		ug/L		79	77 - 120
Methylcyclohexane	ND		250	223		ug/L		89	68 - 134
Methylene Chloride	4.8	J	250	209		ug/L		82	75 - 124
Styrene	ND		250	219		ug/L		87	80 - 120
Tetrachloroethene	ND		250	225		ug/L		90	74 - 122
Toluene	ND		250	217		ug/L		87	80 - 122
trans-1,2-Dichloroethene	ND		250	226		ug/L		90	73 - 127
trans-1,3-Dichloropropene	ND		250	204		ug/L		82	80 - 120
Trichloroethene	230	F1	250	414	F1	ug/L		73	74 - 123
Trichlorofluoromethane	ND		250	221		ug/L		89	62 - 150
Vinyl chloride	ND		250	228		ug/L		91	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*99*		*75 - 123*

Lab Sample ID: 480-111156-2 MSD
Matrix: Water
Analysis Batch: 337023

Client Sample ID: MW-9R
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		250	220		ug/L		88	73 - 126	5	15
1,1,2,2-Tetrachloroethane	ND		250	214		ug/L		85	76 - 120	3	15
1,1,2-Trichloroethane	ND		250	205		ug/L		82	76 - 122	3	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	209		ug/L		84	61 - 148	9	20
1,1-Dichloroethane	ND		250	205		ug/L		82	77 - 120	3	20
1,1-Dichloroethene	ND		250	207		ug/L		83	66 - 127	2	16
1,2,4-Trichlorobenzene	ND		250	200		ug/L		80	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND		250	186		ug/L		74	56 - 134	1	15
1,2-Dichlorobenzene	ND		250	222		ug/L		89	80 - 124	1	20
1,2-Dichloroethane	ND		250	209		ug/L		84	75 - 120	4	20
1,2-Dichloropropane	ND		250	222		ug/L		89	76 - 120	2	20
1,3-Dichlorobenzene	ND		250	221		ug/L		88	77 - 120	2	20
1,4-Dichlorobenzene	ND		250	224		ug/L		90	78 - 124	2	20
2-Butanone (MEK)	ND		1250	956		ug/L		77	57 - 140	0	20
2-Hexanone	ND		1250	881		ug/L		70	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	ND		1250	916		ug/L		73	71 - 125	1	35
Acetone	ND		1250	964		ug/L		77	56 - 142	6	15
Benzene	ND		250	218		ug/L		87	71 - 124	0	13
Bromodichloromethane	ND		250	211		ug/L		84	80 - 122	4	15

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

Lab Sample ID: 480-111156-2 MSD
Matrix: Water
Analysis Batch: 337023

Client Sample ID: MW-9R
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		250	198		ug/L		79	61 - 132	4	15
Bromomethane	ND		250	235		ug/L		94	55 - 144	5	15
Carbon disulfide	ND		250	180		ug/L		72	59 - 134	3	15
Carbon tetrachloride	ND		250	208		ug/L		83	72 - 134	4	15
Chlorobenzene	ND		250	210		ug/L		84	80 - 120	2	25
Dibromochloromethane	ND		250	196		ug/L		78	75 - 125	0	15
Chloroethane	ND		250	224		ug/L		90	69 - 136	3	15
Chloroform	ND		250	220		ug/L		88	73 - 127	1	20
Chloromethane	ND		250	176		ug/L		70	68 - 124	3	15
cis-1,2-Dichloroethene	500	F1	250	611	F1	ug/L		46	74 - 124	2	15
cis-1,3-Dichloropropene	ND		250	215		ug/L		86	74 - 124	1	15
Cyclohexane	ND		250	198		ug/L		79	59 - 135	7	20
Dichlorodifluoromethane	ND		250	184		ug/L		74	59 - 135	4	20
Ethylbenzene	ND		250	210		ug/L		84	77 - 123	1	15
1,2-Dibromoethane	ND		250	206		ug/L		83	77 - 120	4	15
Isopropylbenzene	ND		250	213		ug/L		85	77 - 122	6	20
Methyl acetate	ND	F1 *	1250	907	F1	ug/L		73	74 - 133	3	20
Methyl tert-butyl ether	ND		250	205		ug/L		82	77 - 120	3	37
Methylcyclohexane	ND		250	216		ug/L		86	68 - 134	3	20
Methylene Chloride	4.8	J	250	215		ug/L		84	75 - 124	3	15
Styrene	ND		250	214		ug/L		86	80 - 120	2	20
Tetrachloroethene	ND		250	214		ug/L		86	74 - 122	5	20
Toluene	ND		250	212		ug/L		85	80 - 122	2	15
trans-1,2-Dichloroethene	ND		250	220		ug/L		88	73 - 127	3	20
trans-1,3-Dichloropropene	ND		250	202		ug/L		81	80 - 120	1	15
Trichloroethene	230	F1	250	398	F1	ug/L		66	74 - 123	4	16
Trichlorofluoromethane	ND		250	208		ug/L		83	62 - 150	6	20
Vinyl chloride	ND		250	213		ug/L		85	65 - 133	7	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Lab Sample ID: MB 480-337188/6
Matrix: Water
Analysis Batch: 337188

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			12/19/16 22:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/19/16 22:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/19/16 22:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/19/16 22:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/19/16 22:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/19/16 22:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/19/16 22:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/19/16 22:06	1

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

Lab Sample ID: MB 480-337188/6
Matrix: Water
Analysis Batch: 337188

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			12/19/16 22:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/19/16 22:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/19/16 22:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/19/16 22:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/19/16 22:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/19/16 22:06	1
2-Hexanone	ND		5.0	1.2	ug/L			12/19/16 22:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/19/16 22:06	1
Acetone	ND		10	3.0	ug/L			12/19/16 22:06	1
Benzene	ND		1.0	0.41	ug/L			12/19/16 22:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/19/16 22:06	1
Bromoform	ND		1.0	0.26	ug/L			12/19/16 22:06	1
Bromomethane	ND		1.0	0.69	ug/L			12/19/16 22:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/19/16 22:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/19/16 22:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/19/16 22:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/19/16 22:06	1
Chloroethane	ND		1.0	0.32	ug/L			12/19/16 22:06	1
Chloroform	ND		1.0	0.34	ug/L			12/19/16 22:06	1
Chloromethane	ND		1.0	0.35	ug/L			12/19/16 22:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/19/16 22:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			12/19/16 22:06	1
Cyclohexane	ND		1.0	0.18	ug/L			12/19/16 22:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/19/16 22:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/19/16 22:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/19/16 22:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/19/16 22:06	1
Methyl acetate	ND		2.5	1.3	ug/L			12/19/16 22:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/19/16 22:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/19/16 22:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/19/16 22:06	1
Styrene	ND		1.0	0.73	ug/L			12/19/16 22:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/19/16 22:06	1
Toluene	ND		1.0	0.51	ug/L			12/19/16 22:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			12/19/16 22:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			12/19/16 22:06	1
Trichloroethene	ND		1.0	0.46	ug/L			12/19/16 22:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			12/19/16 22:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			12/19/16 22:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			12/19/16 22:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/19/16 22:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*12/19/16 22:06*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*12/19/16 22:06*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*12/19/16 22:06*	*1*

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

Lab Sample ID: LCS 480-337188/4
Matrix: Water
Analysis Batch: 337188

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	23.6		ug/L		95	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.3		ug/L		89	76 - 120
1,1,2-Trichloroethane	25.0	21.9		ug/L		88	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.4		ug/L		90	61 - 148
1,1-Dichloroethane	25.0	23.8		ug/L		95	77 - 120
1,1-Dichloroethene	25.0	22.8		ug/L		91	66 - 127
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.2		ug/L		81	56 - 134
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	24.6		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	24.6		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 120
2-Butanone (MEK)	125	115		ug/L		92	57 - 140
2-Hexanone	125	96.3		ug/L		77	65 - 127
4-Methyl-2-pentanone (MIBK)	125	99.4		ug/L		80	71 - 125
Acetone	125	129		ug/L		104	56 - 142
Benzene	25.0	25.0		ug/L		100	71 - 124
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	23.0		ug/L		92	61 - 132
Bromomethane	25.0	26.6		ug/L		107	55 - 144
Carbon disulfide	25.0	21.8		ug/L		87	59 - 134
Carbon tetrachloride	25.0	23.2		ug/L		93	72 - 134
Chlorobenzene	25.0	23.5		ug/L		94	80 - 120
Dibromochloromethane	25.0	22.8		ug/L		91	75 - 125
Chloroethane	25.0	25.4		ug/L		101	69 - 136
Chloroform	25.0	25.1		ug/L		100	73 - 127
Chloromethane	25.0	22.0		ug/L		88	68 - 124
cis-1,2-Dichloroethene	25.0	26.1		ug/L		105	74 - 124
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	74 - 124
Cyclohexane	25.0	21.0		ug/L		84	59 - 135
Dichlorodifluoromethane	25.0	24.0		ug/L		96	59 - 135
Ethylbenzene	25.0	23.2		ug/L		93	77 - 123
1,2-Dibromoethane	25.0	23.3		ug/L		93	77 - 120
Isopropylbenzene	25.0	23.7		ug/L		95	77 - 122
Methyl acetate	125	98.9		ug/L		79	74 - 133
Methyl tert-butyl ether	25.0	23.1		ug/L		92	77 - 120
Methylcyclohexane	25.0	22.1		ug/L		88	68 - 134
Methylene Chloride	25.0	23.8		ug/L		95	75 - 124
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	22.7		ug/L		91	74 - 122
Toluene	25.0	23.1		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	23.1		ug/L		92	80 - 120
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	24.4		ug/L		98	62 - 150
Vinyl chloride	25.0	24.0		ug/L		96	65 - 133

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

Lab Sample ID: LCS 480-337188/4
Matrix: Water
Analysis Batch: 337188

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	*100*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*99*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Lab Sample ID: LCSD 480-337188/17
Matrix: Water
Analysis Batch: 337188

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			25.0	24.0		ug/L		96	73 - 126	1	15
1,1,2,2-Tetrachloroethane			25.0	21.6		ug/L		86	76 - 120	4	15
1,1,2-Trichloroethane			25.0	21.7		ug/L		87	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane			25.0	26.5		ug/L		106	61 - 148	17	20
1,1-Dichloroethane			25.0	23.5		ug/L		94	77 - 120	1	20
1,1-Dichloroethene			25.0	23.7		ug/L		95	66 - 127	4	16
1,2,4-Trichlorobenzene			25.0	21.3		ug/L		85	79 - 122	8	20
1,2-Dibromo-3-Chloropropane			25.0	18.7		ug/L		75	56 - 134	8	15
1,2-Dichlorobenzene			25.0	23.1		ug/L		93	80 - 124	7	20
1,2-Dichloroethane			25.0	24.2		ug/L		97	75 - 120	1	20
1,2-Dichloropropane			25.0	24.0		ug/L		96	76 - 120	3	20
1,3-Dichlorobenzene			25.0	23.3		ug/L		93	77 - 120	7	20
1,4-Dichlorobenzene			25.0	24.1		ug/L		96	80 - 120	4	20
2-Butanone (MEK)			125	108		ug/L		86	57 - 140	6	20
2-Hexanone			125	93.9		ug/L		75	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)			125	98.7		ug/L		79	71 - 125	1	35
Acetone			125	118		ug/L		94	56 - 142	9	15
Benzene			25.0	24.6		ug/L		98	71 - 124	2	13
Bromodichloromethane			25.0	23.3		ug/L		93	80 - 122	5	15
Bromoform			25.0	21.3		ug/L		85	61 - 132	8	15
Bromomethane			25.0	29.0		ug/L		116	55 - 144	9	15
Carbon disulfide			25.0	23.0		ug/L		92	59 - 134	5	15
Carbon tetrachloride			25.0	23.9		ug/L		96	72 - 134	3	15
Chlorobenzene			25.0	23.0		ug/L		92	80 - 120	2	25
Dibromochloromethane			25.0	21.6		ug/L		86	75 - 125	5	15
Chloroethane			25.0	25.9		ug/L		104	69 - 136	2	15
Chloroform			25.0	23.9		ug/L		95	73 - 127	5	20
Chloromethane			25.0	23.0		ug/L		92	68 - 124	4	15
cis-1,2-Dichloroethene			25.0	25.1		ug/L		101	74 - 124	4	15
cis-1,3-Dichloropropene			25.0	24.0		ug/L		96	74 - 124	1	15
Cyclohexane			25.0	23.2		ug/L		93	59 - 135	10	20
Dichlorodifluoromethane			25.0	27.7		ug/L		111	59 - 135	14	20
Ethylbenzene			25.0	22.9		ug/L		92	77 - 123	1	15
1,2-Dibromoethane			25.0	22.8		ug/L		91	77 - 120	2	15
Isopropylbenzene			25.0	24.0		ug/L		96	77 - 122	1	20
Methyl acetate			125	97.8		ug/L		78	74 - 133	1	20
Methyl tert-butyl ether			25.0	22.7		ug/L		91	77 - 120	2	37

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

Lab Sample ID: LCSD 480-337188/17
Matrix: Water
Analysis Batch: 337188

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylcyclohexane			25.0	25.4		ug/L		101	68 - 134	14	20
Methylene Chloride			25.0	24.3		ug/L		97	75 - 124	2	15
Styrene			25.0	23.9		ug/L		96	80 - 120	4	20
Tetrachloroethene			25.0	23.6		ug/L		95	74 - 122	4	20
Toluene			25.0	23.1		ug/L		93	80 - 122	0	15
trans-1,2-Dichloroethene			25.0	23.8		ug/L		95	73 - 127	1	20
trans-1,3-Dichloropropene			25.0	22.0		ug/L		88	80 - 120	5	15
Trichloroethene			25.0	25.4		ug/L		101	74 - 123	3	16
Trichlorofluoromethane			25.0	26.9		ug/L		107	62 - 150	10	20
Vinyl chloride			25.0	25.8		ug/L		103	65 - 133	7	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*

QC Association Summary

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

GC/MS VOA

Analysis Batch: 337023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-111156-1	MW-12	Total/NA	Water	8260C	
480-111156-2	MW-9R	Total/NA	Water	8260C	
480-111156-3	MW-7R	Total/NA	Water	8260C	
480-111156-4	MW-4	Total/NA	Water	8260C	
480-111156-5	MW-1	Total/NA	Water	8260C	
480-111156-6	EX MW-12	Total/NA	Water	8260C	
480-111156-8	EX MW-11R	Total/NA	Water	8260C	
480-111156-9	AL-2	Total/NA	Water	8260C	
480-111156-10	AL-1	Total/NA	Water	8260C	
480-111156-11	AL-7	Total/NA	Water	8260C	
480-111156-12	FIELD DUPLICATE	Total/NA	Water	8260C	
480-111156-13	TRIP BLANK	Total/NA	Water	8260C	
MB 480-337023/6	Method Blank	Total/NA	Water	8260C	
LCS 480-337023/4	Lab Control Sample	Total/NA	Water	8260C	
480-111156-2 MS	MW-9R	Total/NA	Water	8260C	
480-111156-2 MSD	MW-9R	Total/NA	Water	8260C	

Analysis Batch: 337188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-111156-7	MW-2R	Total/NA	Water	8260C	
MB 480-337188/6	Method Blank	Total/NA	Water	8260C	
LCS 480-337188/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-337188/17	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: MW-12
Date Collected: 12/14/16 09:15
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	337023	12/19/16 13:10	NEA	TAL BUF

Client Sample ID: MW-9R
Date Collected: 12/14/16 10:11
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	337023	12/19/16 13:37	NEA	TAL BUF

Client Sample ID: MW-7R
Date Collected: 12/14/16 11:06
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	337023	12/19/16 14:04	NEA	TAL BUF

Client Sample ID: MW-4
Date Collected: 12/14/16 11:51
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	337023	12/19/16 14:31	NEA	TAL BUF

Client Sample ID: MW-1
Date Collected: 12/14/16 12:32
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	337023	12/19/16 14:58	NEA	TAL BUF

Client Sample ID: EX MW-12
Date Collected: 12/14/16 13:05
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	337023	12/19/16 15:24	NEA	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: MW-2R
Lab Sample ID: 480-111156-7
Date Collected: 12/14/16 13:48
Matrix: Water
Date Received: 12/15/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	337188	12/20/16 01:52	NEA	TAL BUF

Client Sample ID: EX MW-11R
Lab Sample ID: 480-111156-8
Date Collected: 12/14/16 14:20
Matrix: Water
Date Received: 12/15/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	337023	12/19/16 16:18	NEA	TAL BUF

Client Sample ID: AL-2
Lab Sample ID: 480-111156-9
Date Collected: 12/14/16 15:18
Matrix: Water
Date Received: 12/15/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	337023	12/19/16 16:45	NEA	TAL BUF

Client Sample ID: AL-1
Lab Sample ID: 480-111156-10
Date Collected: 12/14/16 16:02
Matrix: Water
Date Received: 12/15/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		80	337023	12/19/16 17:12	NEA	TAL BUF

Client Sample ID: AL-7
Lab Sample ID: 480-111156-11
Date Collected: 12/14/16 16:44
Matrix: Water
Date Received: 12/15/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	337023	12/19/16 17:38	NEA	TAL BUF

Client Sample ID: FIELD DUPLICATE
Lab Sample ID: 480-111156-12
Date Collected: 12/14/16 00:00
Matrix: Water
Date Received: 12/15/16 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	337023	12/19/16 18:05	NEA	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Client Sample ID: TRIP BLANK
Date Collected: 12/14/16 00:00
Date Received: 12/15/16 11:00

Lab Sample ID: 480-111156-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	337023	12/19/16 18:32	NEA	TAL BUF

Laboratory References:

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

Certification Summary

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17

Method Summary

Client: LaBella Associates DPC
Project/Site: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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: Former Roblin Steel & Alumax Ext Sites

TestAmerica Job ID: 480-111156-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-111156-1	MW-12	Water	12/14/16 09:15	12/15/16 11:00
480-111156-2	MW-9R	Water	12/14/16 10:11	12/15/16 11:00
480-111156-3	MW-7R	Water	12/14/16 11:06	12/15/16 11:00
480-111156-4	MW-4	Water	12/14/16 11:51	12/15/16 11:00
480-111156-5	MW-1	Water	12/14/16 12:32	12/15/16 11:00
480-111156-6	EX MW-12	Water	12/14/16 13:05	12/15/16 11:00
480-111156-7	MW-2R	Water	12/14/16 13:48	12/15/16 11:00
480-111156-8	EX MW-11R	Water	12/14/16 14:20	12/15/16 11:00
480-111156-9	AL-2	Water	12/14/16 15:18	12/15/16 11:00
480-111156-10	AL-1	Water	12/14/16 16:02	12/15/16 11:00
480-111156-11	AL-7	Water	12/14/16 16:44	12/15/16 11:00
480-111156-12	FIELD DUPLICATE	Water	12/14/16 00:00	12/15/16 11:00
480-111156-13	TRIP BLANK	Water	12/14/16 00:00	12/15/16 11:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

188896

480-111156 COC

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

Client Contact	Project Manager: Chris Kibler	Site Contact: Chris Kibler	Date: 12-14-16	COC No:
Company Name: LaBella	Tel/Fax: 716-768-4986	Lab Contact:	Carrier:	____ of ____ 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 ☐ 1 week ☐ 2 days ☐ 1 day — Standard Turn			Lab Sampling:
Project Name: Former Robin Steel Site				Job / SDG No.:
Site: 320 S. Roberts Rd., Dunkirk, NY				
PO # 2160148				

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 VOCs (8260)	Sample Specific Notes:
MW-12	12-14-16	9:15	G	GW	3			X	
MW-9R	12-14-16	10:11	G	GW	3			X	
MW-7R	12-14-16	11:06	G	GW	3			X	
MW-4	12-14-16	11:51	G	GW	3			X	
MW-1	12-14-16	12:32	G	GW	3			X	
EX MW-12	12-14-16	13:05	G	GW	3			X	
MW-2R	12-14-16	13:40	G	GW	3			X	
EX MW-11R	12-14-16	14:25	G	GW	3			X	
AL-2	12-14-16	15:18	G	GW	3			X	
AL-1	12-14-16	16:02	G	GW	3			X	
AL-3	12-14-16	16:44	G	GW	3			X	

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

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:
Trip Blank + Field Duplicate - TCL VOC analysis (8260) / NYSASP Category B - Level 4

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

	Company	Date/Time		Company	Date/Time
Relinquished by:	LaBella	12-14-16 1800	Received by:	TAB	12/15/16 10:30
Relinquished by:	TAB	12/15/16 11:00	Received by:	TAB	12/15/16 1100
Relinquished by:			Received in Laboratory by:		

#1 3.4

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-111156-1

Login Number: 111156

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

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