2017 Periodic Review Report

Location:

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

Prepared for:

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

LaBella Project No. 2160148

March 2018

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1.0 EXECUTIVE SUMMARY

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

1.1 Site Summary

The former Roblin Steel Site (hereafter referred to as the "Site") occupies approximately 12 acres of an inactive industrial park in the City of Dunkirk, Chautauqua County, New York. Historically, the Site contained an 88,500-square foot facility building that was demolished as part of remedial activities conducted in 2010. The Site is located in an area zoned for industrial use. An environmental investigation conducted at the Site revealed that contamination associated with historical operations had impacted the Site, necessitating remedial activities. The remedial activities were completed pursuant to the Environmental Restoration Program (ERP) component of Title 5 of the Clean Water/Clean Air Bond Act of 1996, which was administered by the New York State Department of Environmental Conservation (NYSDEC). Following completion of the remedial work described in the Remedial Action Work Plan (RAWP), some contamination was left in the subsurface of the Site, which is hereafter referred to as "remaining contamination." The remedial efforts also included development of a SMP to manage the remaining contamination at the Site in perpetuity or until extinguishment of the Environmental Easement that was placed on the Site, in accordance with Environmental Conservation Law (ECL) Article 71, Title 36.

1.2 Effectiveness of Remedial Program

Based on a recent inspection of the Site, the Site soil cover system is intact and functioning as designed on the Site. Additionally, recent groundwater sampling results indicate that total VOC concentrations at the Site have generally decreased over time.

1.3 Non-Compliance

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

1.4 Recommendations

Overall, the remedial program is viewed to be effective in achieving the remedial objectives for the Site. No changes to the SMP or the frequency of PRR submissions are recommended at this time with the exception of the permanent removal of MW-01, MW-04, MW-12 and EX-MW12 from the groundwater monitoring program. Continued evaluation of Site wells MW-02R, MW-07R, MW-09R and EX-MW11R is warranted.

2.0 SITE OVERVIEW

The Site is located at 320 South Roberts Road in the City of Dunkirk, New York. Figure 1 shows the location of the Site and Figure 2 is the Site plan which depicts the location of the sampled wells. Progress Drive now transects the eastern portion of the Site in a northeast-southwest direction. As a result, a portion of the Site is located east of the new roadway and separated from the remainder of

the Site. The Site is located in an area zoned for industrial use. A mixture of commercial, industrial and residential properties comprise the land use in the Site's vicinity. The Site is bounded to the north by an active CSX rail yard; to the east by active Norfolk Southern railroad tracks; to the south by the former Alumax extrusions property; and to the west by the Edgewood property. Residential properties are located to the northwest and south of the Site beyond the adjoining properties. Lake Erie is approximately 4,000 feet to the northwest of the Site. Hyde Creek is located approximately 100 feet from the northeast corner of the Site.

2.1 Site Background

The Site occupies approximately 12 acres of an inactive industrial park. Historically, the Site contained an 88,500-square foot facility building. The building was demolished as part of the 2010 remedial activities. The adjoining properties located in the industrial park include the former Alumax Extrusions property located to the south and the Edgewood property located to the west. In 1910, all three of these properties were developed as part of a larger industrial complex operated by the American Locomotive Company (ALCO). The Site was later used for steel reclamation; however, operations ceased in 1987. Following this closure, salvage operations dismantled and partially demolished a majority of the Site structures throughout the late 1980s and early 1990s. Since that time, the Site has been vacant.

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

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

2.2 Remedial Program Overview

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

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

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

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

The Phase II activities included the following:

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

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

3.0 EFFECTIVENESS OF THE REMEDIAL PROGRAM

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

As indicated below in Section 4.1.2, the Site Soil Cover System was inspected on February 1, 2018. Based on this inspection, the cover system is intact and functioning effectively throughout the Site.

The results of the February 2018 groundwater sampling event revealed that total VOC concentrations appear to be generally decreasing when compared to results from historical sampling events.

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

4.1 IC/EC Requirements and Compliance

4.1.1 IC Requirements-Site Restrictions

In accordance with the SMP, the Site has a series of Institutional Controls (ICs) in the form of Site restrictions. Adherence to these ICs is required by the Environmental Easement. The Environmental Easement is described on the Boundary Survey of the Former Roblin Steel Site, included within Appendix 1. Site restrictions that apply are as follows:

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

4.1.2 Engineering Control-Soil Cover System

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

On February 1, 2018, Ms. Shannon Dalton of LaBella conducted the annual Site inspection, which included traversing the Site on foot to observe the current conditions. The Cover Inspection Form is included herein as Appendix 2. Appendix 3 includes photographs taking during the Site inspection.

The Site is generally vacant and undeveloped, with vegetated soil cover occurring at the ground

surface. Progress Drive crosses through the Site in northeast-southwest direction. At the time of the Site inspection, the floor and walls of the storm water ditches associated with this roadway were covered with a coarse, low-lying vegetation. No evidence of erosion or exposed synthetic erosion control fabric was observed within or adjacent to the ditches. Furthermore, the asphalt road surface was observed to be in very good condition.

4.1.3 Engineering Control-Sub-Slab Vapor Venting System

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

4.2 IC/EC Certification

The IC/EC Certification Form was completed in its entirety as all ICs/ECs are in place for the Site per the CICP/OMP. Appendix 4 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 Monitoring Plan is included in Section 3.0 of the SMP and describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected Site Media.

The Monitoring Plan describes the methods to be used for:

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

To adequately address these issues, the Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g. well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;

- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and,
- Annual inspection and periodic certification.

5.2 Groundwater Monitoring

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

5.2.1 Sampling Procedure

The eight groundwater monitoring wells were purged and sampled in general accordance with the procedures detailed in the November 2010 SMP. This included the five downgradient wells (MW-01, MW-02R, MW-04, MW-12 and EX-MW12) and the three wells located within areas of groundwater impacted with chlorinated VOCs (MW-09R, MW-07R and EX-MW11R) All monitoring well sampling activities were recorded on groundwater sampling logs, which are included as Appendix 7. Other observations (e.g. well integrity, etc.) were also noted on the well sampling logs. Prior to the initiation of groundwater sampling, groundwater levels were measured with an electronic water level indicator to determine the static water level below the ground surface elevation. The groundwater levels were used to determine the volume of standing water in the wells.

Well purging consisted of the evacuation of a minimum of one well volume 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 NYSDOH Environmental Laboratory Accreditation Program certified laboratory for analysis. The COC records established for the collected samples were maintained throughout the laboratory handling. Copies of the COC and complete analytical laboratory report are included in Appendix 8.

5.2.3 Quality Assurance/Quality Control Samples

In addition to field samples, QA/QC samples were collected to evaluate the effectiveness of the QA/QC procedures implemented during the field and laboratory activities associated with the project. The QA/QC samples included a blind field duplicate (collected from AL-2) and a trip blank that were also analyzed for TCL VOCs.

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.

5.3 Comparisons with Remedial Objectives

As shown in Table 1, VOC concentrations were not detected in monitoring wells MW-01, MW-04, MW-12 and EX-MW12.

Several VOCs were detected at concentrations above standards in samples collected from monitoring wells MW-02R and MW-09R. However, total VOC concentrations in these wells have decreased since previous sampling events. These wells will continue to be evaluated during future sampling events for any indication of trends.

Several VOCs were detected at concentrations above standards in the sample collected from monitoring wells MW-07R and EX-MW-11R. Although total VOC concentrations in these wells have slightly increased since the previous sampling event, total VOC concentrations are substantially lower than the maximum concentration detected at these locations during the August 2010 sampling event. These wells will continue to be evaluated during future sampling events for any indication of trends.

A comparison of the results from AL-2 with the blind field duplicate indicates that the data generally coincide (i.e. a majority of concentrations for the duplicate were within 1.5 times of the detected concentrations of the original sample). Exceptions to this are as follows:

- Benzene was detected within the duplicate at a concentration more than three times the concentration detected in AL-2.
- Cyclohexane was detected within AL-2 at a concentration more than three times the concentration detected within the duplicate.
- Methylcyclohexane and vinyl chloride were detected within AL-2 and not detected within the duplicate.

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 Groundwater Monitoring Conclusions and Recommendations

No contraventions of TOGS VOC standards were detected in MW-01, MW-04, MW-12 and EX-MW12 during the 2015, 2016 and 2017 monitoring events. As a result, it is recommended that these wells be permanently removed from monitoring program. While several VOC concentrations were detected above standards in MW-02R and MW-09R, total VOC concentrations for each of these wells have

generally decreased over time. Although the total VOC concentration in MW-07R and MW11R have slightly increased since the previous sampling event, such are well below the maximum concentration detected at these locations. Based on this information, no changes to the SMP or the frequency of PRR submissions are recommended at this time with the exception of the permanent removal of MW-01, MW-04, MW-12 and EX-MW12 from the groundwater monitoring program.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Site Soil Cover System was inspected on February 1, 2018 and was observed to be intact and functioning as designed throughout the Site.

Total VOC concentrations in a majority of the Site wells have decreased over time. Continued evaluation of Site wells MW-02R, MW-07R, MW-09R and EX-MW11R is warranted. No changes to the Monitoring Plan or the SMP are recommended with the exception of the permanent removal of MW-01, MW-04, MW-12 and EX-MW12 from the groundwater monitoring program.

7.0 LIMITATIONS

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

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

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

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

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

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

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

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

Remedial Action Work Plan, TVGA Consultants, February 2006

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

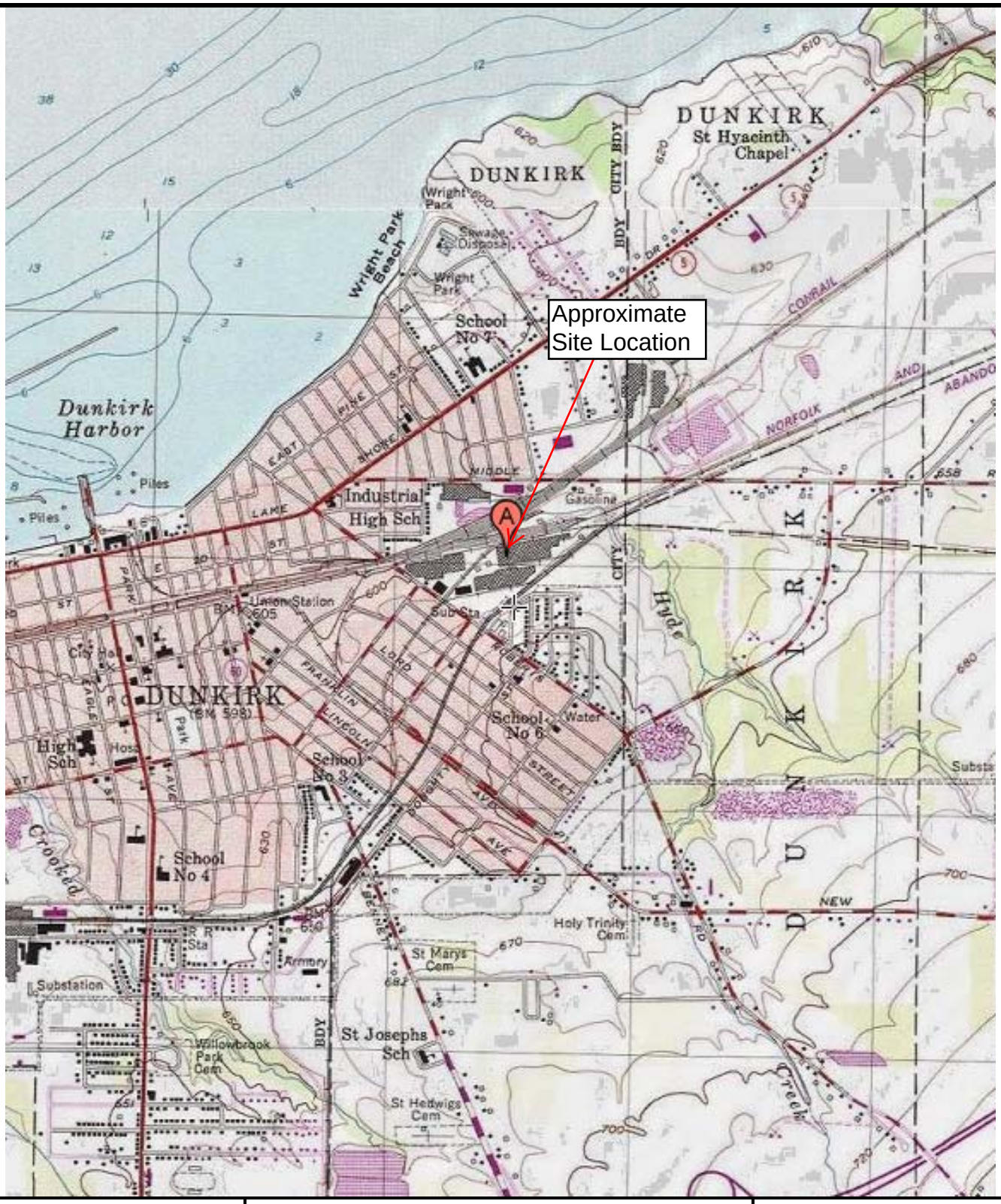
Site Management Plan, Former Roblin Steel Site, TVGA Consultants, November 2010

Periodic Review Report, Former Roblin Steel Site, LaBella Associates, D.P.C., December 2016

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

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

FIGURES



N

Not To Scale

FIGURE 1
SITE LOCATION MAP

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

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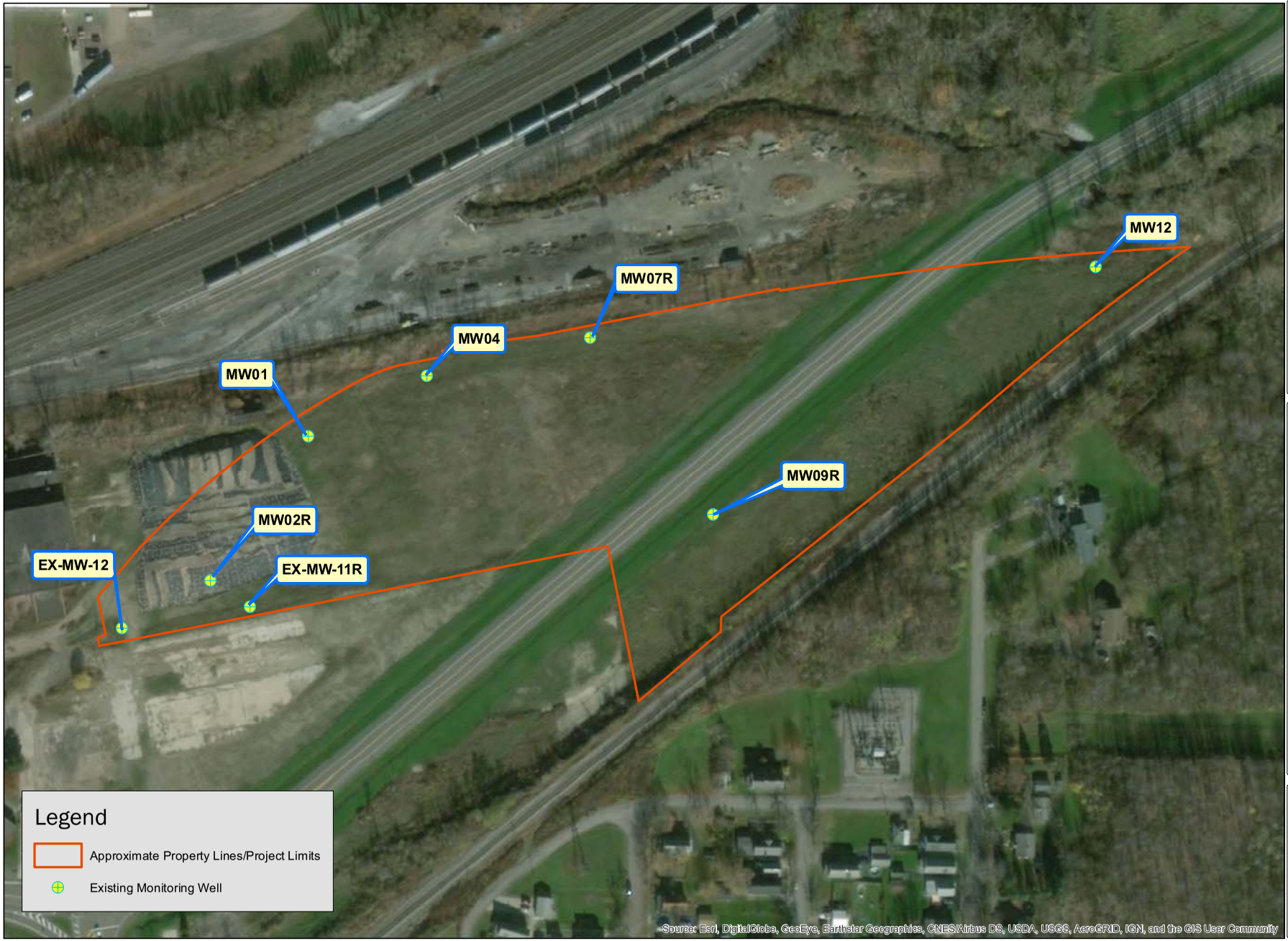

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N
W E
S

0 100 200
Feet

1 inch = 142 feet

INTENDED TO PRINT AS: 11" X 17"

PROJECT:

FORMER ROBLIN STEEL SITE

DRAWING NAME:

SITE PLAN

PROJECT #/DRAWING #/ DATE

2160148

FIGURE 2

2/16/2018

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TABLE

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

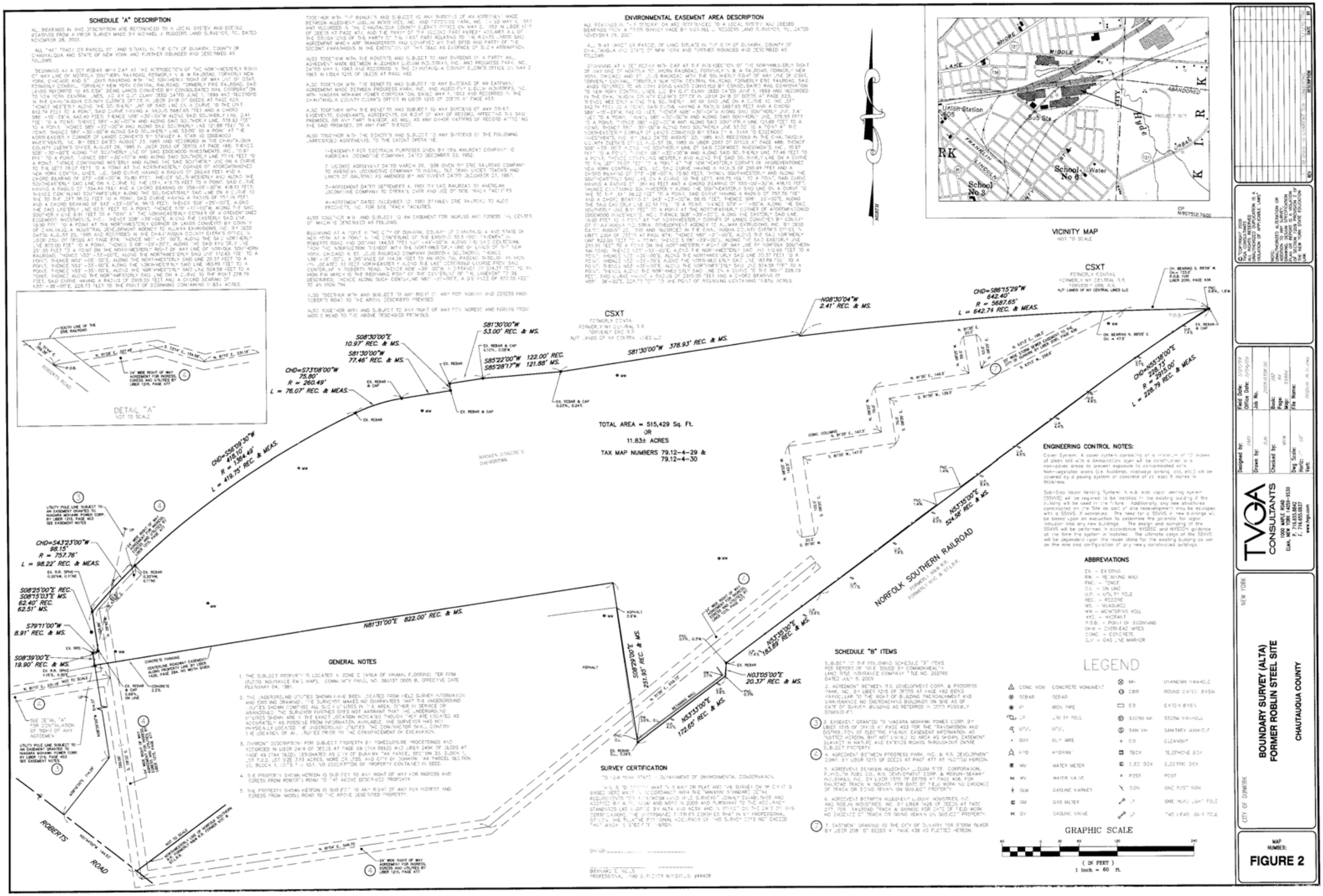
PARAMETER	REGULATORY VALUE	MW-01								MW-02R								MW-04									MW-07R							MW-09R							EX-MW-11R						
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	10/11/02	2/10/09	8/10/10	8/21/13	7/15/14	12/15/15	12/14/16	2/2/2018	10/11/02	5/4/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18
Volatile Organic Compounds (µg/L)																																															
1,1-Dichloroethene	5																								15								3	2.02				2.3		1.2						4.6	11	5.8
1,1-Dichloroethane	5						0.26																																									
cis-1,2-Dichloroethene	5						0.46			NA		21.3	10.1	6.27	18	11	13	NA					2.6	1.2		NA		904	128	584	17	5.9	190	NA	210	277	217	55.7	1,200	500	410	NA	354	5,320	1,950	5,400	990	1,000	1,500
trans-1,2-Dichloroethene	5									NA								NA								NA								NA	4.48	17.3			2.9		4.2	NA					3.3		4.4
1,2-Dichloroethene (Total)	5									88		21.3														1,500		904						380	214	294						41,000	354	5,320					
1,2,4-Trimethylbenzene	5										10																									12.9													
2-Butanone	50										33.5	129																								305													
Acetone	50											21.7	12.3							43.8																569													
Benzene	1	1								18	7.92	37.3	18.2	22.7	3.5	3.5	5.6	6								10	65	14			0.34			35	11.5	445	87.7	46.3	0.97		2.2						2.5		3.7
Carbon Disulfide	60						5.6	0.19																																									
Chloroethane	5												6.2																																				
Cyclohexane	5												32.8	43.3	6.3	5	7.9																					208	155	15		9.4					16	24	22
cis-1,3-Dichloropropene	0																										1,500																					
Ethylbenzene	5										9.81	18.9	16.9	22.6	1.9			2							4								12	5.66	69.6	33.7	17.3	0.23								2.4		1.6
Isopropylbenzene	5												2.53	3.12	0.61																							0.28								0.68		
Methyl Cyclohexane	5						1						13.8	22.4	2.3	1.3	2									99				0.76						121	101	13		7.5				15	20	23
Methylene Chloride	5																																							4.8							12	
n-Propylbenzene	5										2.57																																					
Tetrachloroethene	5																									160				0.25									4.5									
Toluene	5									24	7.19	101													12	69	29.7						74	23.3	581										1.7		0.81
m,p-Xylene	5	NA								NA	7.62	73.2	2.45	9.81				NA							NA	67	33.3						NA	20.5	239						NA				0.73		
o-Xylene	5	NA								NA	2.61	37.2		2.10				NA							NA								NA	11.5	128			0.23			NA				4.9		
Total Xylenes	5	4								11	10.23	110.4						10							23	67	33.3						75	32	367												2.6
Trichloroethene	5							0.53		32		3.31			0.25								1.91		56		49.2		55.9		2	3.7	450	135	585				230	39	150,000	168	4,630		4,510	36	91	
Vinyl chloride	2									31		5.34	12.5	9.13	26	42	27						0.49		330	770	402	56.1	205	6.2	3.7	75	34	33		991	287	310		93	9,800	27	638	881	1110	520	360	950
Total VOCs	-	5	0	0	0	0	7	0.72	0	204	91.45	579.95	127.78	141.43	59	62.8	55.5	18	0	0	43.8	0	3	3.1	0	1950	2797	2369.5	184.1	844.9	25	11.6	193.7	1063	716.34	3877.2	1658.4	662.3	1,549	734.8	566.5	200,800	903	15,908	2,831	11,020	1,598	1,518	2513.91

PARAMETER	REGULATORY VALUE	MW-12								EX-MW-12							
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/18	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	12/14/16	2/2/2018
Volatile Organic Compounds (µg/L)																	
cis-1,2-Dichloroethene	5	NA					0.53			NA		7.6			0.73		
trans-1,2-Dichloroethene	5	NA								NA							
1,2-Dichloroethene (Total)	5	150								150		7.6					
2-Butanone	50											31.3					
2-Hexanone	50											5.23					
Acetone	50											73.8					
Benzene	1	1								1		24.0	1.9	2.14	0.47		
Ethylbenzene	5	1								1		18.5					
Toluene	5											48.7					
m,p-Xylene	5									NA		74.7					
o-Xylene	5									NA		40.4					
Total Xylenes	5											115.1					
Trichloroethene	5											8.96					
Vinyl chloride	2	200								200		27.2					
Total VOCs	-	352	0	0	0	0	0.53	0	0	352	0	483.1	1.9	2.14	1	0	0

Notes:
Regulatory values are derived from NYS Ambient Water Quality Standards TOGS 1.1.1 (Source of Drinking Water, groundwater).
(-) = No regulatory value is associated with this compound.
Shaded values represent exceedances of the regulatory value.
µg/L = micrograms per Liter (equivalent to parts per billion (ppb)).
Only compounds with one or more detections are shown.
Blank spaces indicate that the analyte was not detected.
"NA" = parameter was not analyzed

APPENDIX 1

Boundary Survey-Former Roblin Steel Site



SCHEDULE "A" DESCRIPTION
ENVIRONMENTAL EASEMENT AREA DESCRIPTION
VICINITY MAP
NOT TO SCALE
DETAIL "A"
NOT TO SCALE
CSXT
NORFOLK SOUTHERN RAILROAD
ROBERTS ROAD
TOTAL AREA = 515,429 Sq. Ft.
OR
11.83± ACRES
TAX MAP NUMBERS 79.12-4-29 &
79.12-4-30
CHD=S86°15'29"W
642.40'
R = 5687.65'
L = 642.74 REC. & MEAS.
N08°30'04"W
2.41' REC. & MS.
S81°30'00"W 378.93' REC. & MS.
S81°30'00"W
53.00' REC. & MS.
S85°22'00"W 122.00' REC.
S85°28'17"W 121.88' MS.
S08°30'00"E
10.97' REC. & MS.
S81°30'00"W
77.46' REC. & MS.
CHD=S73°08'00"W
75.80'
R = 260.49'
L = 76.07' REC. & MEAS.
CHD=S56°09'30"W
418.10'
R = 1364.49'
L = 419.75' REC. & MEAS.
CHD=S43°23'00"W
98.15'
R = 757.76'
L = 98.22' REC. & MEAS.
S08°25'00"E REC.
S08°15'03"E MS.
62.40' REC.
62.51' MS.
S79°11'00"W
8.91' REC. & MS.
S08°39'00"E
19.90' REC. & MS.
N81°31'00"E 822.00' REC. & MS.
S08°29'00"E
251.95' REC. & MS.
N53°33'00"E
172.65' REC. & MS.
N03°05'00"E
20.37' REC. & MS.
N53°35'00"E
183.69' REC. & MS.
N53°35'00"E
524.58' REC. & MS.
CHD=N55°38'00"E
228.73'
R = 2915.00'
L = 228.79 REC. & MEAS.
GENERAL NOTES
SURVEY CERTIFICATION
SCHEDULE "B" ITEMS
ENGINEERING CONTROL NOTES:
ABBREVIATIONS
LEGEND
GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.
TVGA CONSULTANTS
1000 MAPLE ROAD
ELMA, NEW YORK 14059-9530
P. 716.655.8842
F. 716.655.0937
www.tvga.com
CITY OF DUNKIRK
NEW YORK
BOUNDARY SURVEY (ALTA)
FORMER ROBLIN STEEL SITE
CHAUTAUQUA COUNTY
MAP NUMBER:
FIGURE 2

APPENDIX 2

Cover Inspection Form

COVER INSPECTION FORM
Former Roblin Steel Site

Property Name: Former Roblin Steel Site Inspection Date: 2-1-18

Property Address: 320 South Roberts Road

City: Dunkirk State: NY Zip Code: 14048

Property ID: (Tax Assessment Map)

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

Total Acreage: 16.5 acres

Weather (during inspection): Temperature: 44°F Conditions: cloudy

SIGNATURE:

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

Inspector: Shannon Dalton Date: 2-1-18

Next Scheduled Inspection Date: _____

SECURITY AND ACCESS

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

COVER & VEGETATION

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

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

ACTIVITY ON SITE

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

ADDITIONAL FACILITY INFORMATION

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

No

COMMENTS

Item #

ATTACHMENTS

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

APPENDIX 3

Photographs

Northwestern portion of Site where former stockpile resided

Northwestern portion of Site where former stockpile resided

Central portion of Site looking west

Central portion of Site looking south

Central portion of Site looking north

Central portion of Site looking east

Eastern portion of Site looking northwest

Ditch north of Progress Drive on eastern portion of Site looking east

Eastern portion of Site looking east

Ditch south of Progress Drive on eastern portion of Site looking west

APPENDIX 4

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. B00173

Site Name Former Roblin Steel Site (Dunkirk)

Site Address: 320 South Roberts Road Zip Code: 14048
City/Town: Dunkirk
County: Chautauqua
Site Acreage: 11.8

Reporting Period: March 7, 2017 to March 7, 2018

	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. B00173 **Box 3**

Description of Institutional Controls

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

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

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

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

Box 4

Description of Engineering Controls

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

Box 5

Periodic Review Report (PRR) Certification Statements

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

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

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

YES	NO
X	☐

2. 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
X	☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. B00173

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I GEORGE SPANOS at 454 N. WORK STREET FALCONER NY 14733
print name print business address

am certifying as (Owner or Remedial Party)

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

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

2-22-18
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

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

I DANIEL P. NOLL (print name) at LaBella Associates, D.P.C. 300 State St Rochester NY (print business address),

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

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

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

Stamp (Required for PE)

2/23/18
Date

APPENDIX 5

Corrective Action Work Plan

KHEOPS
Architecture, Engineering & Survey, DPC

Tel (716) 849-8739
Fax (716) 856-0981
www.kheopsdpc.com

300 Pearl Street
Suite 100
Buffalo, NY 14202

2013.0201.00
April 3, 2015

New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

Attn: David Syzmanski, Project Manager

Re: Revised Corrective Action Work Plan
Former Roblin Steel Site, 320 South Roberts Road, Dunkirk NY
NYSDEC Site No. B00173-9

Dear Mr. Syzmanski:

On behalf of the Chautauqua County Department of Public Facilities, KHEOPS Architecture, Engineering & Survey, DPC (KHEOPS) has revised the proposed Corrective Action Work Plan (CAWP) for the Former Roblin Steel Site according to your letter dated March 16, 2015. The intent of this document is to obtain approval from the NYSDEC for the proposed CAWP for the Former Roblin Steel Site in order to bring the site into compliance with the Site Management Plan (SMP). The site is not in compliance with the SMP due to a large stockpile of off-site materials that was created during the construction for the Millennium Parkway project.

The proposed corrective action includes the following:

- Removal of all materials stockpiled on the Edgewood property;
- Removal of all materials that could be classified as solid waste; and
- Removal of all materials that exceed Commercial Use Soil Cleanup Objectives (SCOs).
- End-point sampling of soil beneath the stockpiled soils once they are removed;
- Completion of a verification survey to confirm that 12-inches of soil cover are still in place after soil removal is complete;
- Site restoration;
- Preparation of a summary report verifying that the corrective measures were completed.

Soil Removal

During construction activities, offsite materials were stockpiled on the Edgewood property. These materials must be removed from the site. All solid waste materials and any other miscellaneous debris that is not an acceptable fill material must be removed and disposed of off-site in a permitted treatment, storage or disposal (TSD) facility. Fill material that is in compliance with the NYSDEC DER-10

Technical Guidance for Site Investigation and Remediation imported fill criteria may be imported to the Former Roblin Steel Site.

During a site visit on September 19, 2014, large pieces of concrete, polyethylene pipe, geotextile fabrics and other items which may be classified as solid waste materials were observed within the stockpile. Subsequent to the visit, it was determined that while the Contractor was building the pile, all of the solid waste material was pushed to the north end of the pile to separate it from the acceptable fill. All solid waste materials and any other miscellaneous debris that is not an acceptable fill material will be removed and disposed of off-site in a permitted TSD facility. It is intended that the stockpile will be screened to separate the material.

This option would require analytical testing of the stockpiled materials in accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation. The estimated volume of soil stockpiled is 9,000 cy; therefore, according to Table 5.4(e)10 of DER-10, the collection and analysis of a minimum of 23 discreet VOC samples and 10 composite samples would be needed. It is assumed that additional testing will be required for endpoint sampling when contaminated materials are detected. It is assumed that some contaminated materials will be identified based on the sampling that has already been completed at the site. These contaminated materials will need to be excavated and disposed of off-site at a permitted TSD facility.

The selective removal and disposal of solid waste and contaminated materials will require photoionization detector (PID) screening of materials as excavation progresses. Suspected contaminated materials will be identified by elevated PID readings, visual indicators or olfactory indicators. Suspect materials will be placed on a minimum 10 mil waterproof tarp and covered with a minimum 10 mil waterproof tarp at the end of each day while awaiting laboratory results to determine if they must be taken off-site. An alternative will be the use of roll off containers.

The following table summarizes the confirmation sampling frequencies that will be used:

Soil excavation of less than 20 feet in perimeter	One bottom sample and one sidewall sample biased in the direction of surface runoff.
Soil excavation of 20 to 300 feet in perimeter	One sample from the top of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
Soil excavation of greater than 300 feet in perimeter	One sample from the top of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.

<u>Example of How to Use Table:</u> The Contractor will identify an area on the stockpile that requires excavation. The area will be identified by visual indicators of solid waste or elevated PID readings. Once excavation begins, each bucketful will be monitored with the PID device. If an elevated reading is detected, the material will be segregated onto a separate tarp (pile #1) until testing in accordance with Table 5.4(e)10 of DER-10 confirms its use as acceptable fill material. Bucket-fulls taken from the same excavation that show no elevated PID readings must be placed on a separate tarp (pile #2) for testing. The excavation will be progressed until the sidewalls and bottom of the excavation return no readings on the PID. Once no PID readings are noted, the Table above will be used to determine how many end point samples are required in addition to the sampling of the segregated materials. Any materials not meeting the criteria for acceptable fill material must be removed from the site.

Water Collection and Treatment

A system to collect stormwater runoff from the stockpile will be implemented at the site in order to collect and treat any potentially contaminated runoff prior to discharge into any stormwater or sanitary sewer system. Collected stormwater will require analytical testing prior to discharge in order to verify that no contaminants are present.

The anticipated collection system will include methods to divert runoff to a sump. The sump must not allow collected water to infiltrate into the ground. The water collected in the sump will then be pumped to a holding tank where it will be analytically tested prior to discharge to an approved discharge point.

If determined that the collected stormwater is contaminated and it cannot be treated on-site, the contaminated water will be collected in new or reconditioned 55-gallon drums or roll-off containers labeled in accordance with federal and State Regulations. The drums or containers will be sealed water-tight to prevent infiltration and leaking of water and will be stored on-site in such a manner that the contents will not spill or leak. All water will be transported and disposed of in accordance with applicable laws.

Endpoint Sampling

Once the existing stockpile has been moved/screened, the soil beneath the stockpiled soils will be subjected to endpoint sampling in order to verify that the surface soil meets site remedial objectives and DER-10 imported fill criteria. Samples will be collected from a depth of 0 to 6 inches below vegetative cover, if any.

Verification Survey

Once the existing stockpile has been moved/screened, the site will be surveyed to confirm that the minimum 12-inches of soil cover are still in place. The survey work will include re-establishment or recovery of survey control points, collection of ground shots at a 50-foot grid spacing and preparation of surface mapping in order to compare the existing surface with the original surface.

In addition, ten randomly located hand borings will be completed at the site to verify the depth of cover. For this site, it is assumed that no more than 10 hand borings will be required and that these hand borings could be completed within one 8-hour work day.

Site Restoration

If after the completion of the verification survey, it is determined that additional cover material is required, clean fill material that is in compliance with the NYSDEC DER-10 imported fill criteria will be placed to reestablish the 12-inch cover material. A cover inspection will then be performed in accordance with SMP to verify the integrity of the cover system. In areas where no vegetation is present, grass seed and fertilizer will be placed.

CAWP Summary Report/PRR

A summary report documenting and verifying that the corrective measures were completed in accordance with the DEC-approved CAWP will be submitted as part of a revised Periodic Review Report (PRR) for the site. Figures detailing the site plan, contours, and profile of existing soil will be included.

The County will direct the Contractor to begin removing and disposing of the stockpiled materials as soon as this CAWP is approved by the NYSDEC. Weather permitting; the County anticipates that the work can be completed within 60 business days.

Should you have any questions or concerns regarding this submittal, please feel free to contact me at 716-849-8739 or eschiller@kheopsdpc.com at your earliest convenience.

Sincerely,
KHEOPS Architecture, Engineering & Survey, DPC

Edward M. Schiller, PE
Regional Manager
ES/mlb/jld

Table 5.4(e)10 from DER 10 Technical Guidance for Site Investigation and Remediation

Table 5.4(e)10 Recommended Number of Soil Samples for Soil Imported To or Exported From a Site			
Contaminant	**VOCs**	**SVOCs, Inorganics & PCBs/Pesticides**	
Soil Quantity (cubic yards)	**Discrete Samples**	**Composite**	**Discrete Samples/Composite**
0-50	**1**	**1**	**3-5 discrete samples from different locations in the fill being provided will comprose a composite sample for analysis**
50-100	**2**	**1**	
100-200	**3**	**1**	
200-300	**4**	**1**	
300-400	**4**	**2**	
400-500	**5**	**2**	
500-800	**6**	**2**	
800-1000	**7**	**2**	
> 1000	**Add an additional 2 VOC and 1 composite for each additional 1000 cubic yards or consult with DER**		

Note: Table 5.4(e)10 from the May 2010 Final DER-10 Technical Guidance for Site Investigation and Remediation

New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Ave, Buffalo, New York 14203-2915
Phone: (716) 851-7220; **Fax:** (716) 851-7226
Website: www.dec.ny.gov

Joe Martens
Commissioner

March 16, 2015

Ms. Michelle Bodewes
Project Manager
KHEOPS
300 Pearl Street - Suite 100
Buffalo, New York 14202

Dear Ms. Bodewes:

Corrective Action Work Plan
Former Roblin Steel Site (Dunkirk), Dunkirk (C)
Chautauqua County, Site No.: B00173

The Department has reviewed your Corrective Action Work Plan (CAWP) (Dated: March 9, 2015) and has the following comments:

- End-point sampling of soil beneath the stockpiled soils is required to verify that the surface soil meets Site remedial objectives and DER-10 imported fill criteria.

- Section 2.4.2 of the Site Management Plan (*TVGA Consultants: November, 2010*) cites a demarcation layer and a before and after survey to verify that the required 12-inches of soil cover were emplaced. Reference to this survey should be made to compare if the CAWP reaches previous soil grade and to verify if remaining imported fill has been adequately assessed. Close scrutiny and analytical evaluation to compare original elevations and soil composition. Please provide more detail as to how this will be performed.

- It is required that a restoration plan be provided to ensure that surface cover meets Site remedial design specifications. Soil and vegetative cover specifications must be considered unless there is a proposed development which would require an additional Work Plan proposal.

- Tarps used to line and cover assumed contaminated material must be waterproof (I.E.: polyethylene sheeting) to preclude erosion and runoff.

- Contingencies for water collection and treatment must be considered if any contaminated materials are exposed to the elements. Appropriate water storage, analytical, and permitted treatment/disposal must be discussed.

- A summary report verifying that Corrective measures were completed must be submitted as part of a revised Periodic Review Report (PRR) for the Site. Figures detailing the Site plan, contours, and a profile of existing soil should be included as documentation of work performed.

Please provide revision to the CAWP by March 27, 2015 so that we may proceed with this work in a timely manner.

If you have any questions or comments, please contact me at (716) 851-7220 or e-mail: david.szymanski@dec.ny.gov.

Sincerely,

David Szymanski
Environmental Program Specialist 1

DS:sz

ec: Mr. Martin Doster - NYSDEC
Mr. George Spanos - Chautauqua County Dept. of Public Facilities
Ms. Jessica Gostomski - KHEOPS

APPENDIX 6

Corrective Action Report

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

Olympic Towers, 300 Pearl Street, Suite 130 | Buffalo, NY 14202 | p 716.551.6281 | f 716.551.6282 | www.labellapc.com

Corrective Action Report

Location:

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

Prepared for:

Chautauqua County Department of Public Facilities
454 North Work Street
Falconer, New York 14733

March 2017

Table of Contents

1.0 INTRODUCTION

This Corrective Action Report was prepared on behalf of Chautauqua County by LaBella Associates, D.P.C. (LaBella) to summarize and document corrective measures implemented at the Former Roblin Steel Site (Site No. B00173-9) in 2015-2017. The corrective measures were undertaken in general conformance with the Corrective Action Work Plan (CAWP) developed for the Site and approved by the New York State Department of Environmental Conservation (NYSDEC) in April 2015. These corrective measures were required to address non-compliance issues associated with the placement of uncharacterized soil/fill on the Site and subsequent impacts to the engineered soil cover system at the Site that occurred during the removal of the aforementioned soil/fill. The actions described herein have effectively brought the Site into compliance with the requirements for the permanent engineering controls established in the approved Site Management Plan (SMP).

2.0 SITE LOCATION AND BACKGROUND

The Site is located at 320 South Roberts Road in the City of Dunkirk, New York and occupies approximately 12 acres of an inactive industrial park (See Figure 1). The Millennium Parkway, constructed in 2014, now transects the eastern portion of the Site in a northeast-southwest direction. As a result, a portion of the Site is located east of the new roadway and is separated from the remainder of the Site. Figure 2 illustrates the current configuration of the Site, while a boundary survey of the Site is also included within the Figures Section of this report.

The Site is located in an area zoned for industrial use. A mixture of commercial, industrial and residential properties comprise the land use in the Site's vicinity. The Site is bounded to the north by an active CSX rail yard; to the east by active Norfolk Southern railroad tracks; to the south by the former Alumax extrusions property; and to the west by the former Edgewood property. Residential properties are located to the northwest and south of the Site beyond the adjoining properties.

In 1910, the Site was developed as part of a larger industrial complex operated by the American Locomotive Company (ALCO). The Site was later used for steel reclamation; however, operations ceased in 1987. Following this closure, salvage operations dismantled and partially demolished a majority of the Site structures throughout the late 1980s and early 1990s. Since that time, the Site has been vacant.

Following acquisition of the Site by Chautauqua County in December 2001, the site was investigated and remediated pursuant to the State Assistance Contract (SAC) No. C302808 executed on December 12, 2005 between the County and NYSDEC. The remedial activities were completed under the Environmental Restoration Program (ERP) component of Title 5 of the Clean Water/Clean Air Bond Act of 1996, which was administered by the NYSDEC. The remediation of the site was completed in September 2010, and rendered the site suitable for commercial or industrial use.

The remedial efforts included the placement of a clean soil cover system across the site and the development of a SMP to manage the remaining contamination at the Site in perpetuity or until extinguishment of the Environmental Easement that was placed on the Site, in accordance with Environmental Conservation Law (ECL) Article 71, Title 36.

In May 2013, the Millennium Parkway construction project was initiated. The alignment of the new roadway passes through the Site. The soil cover system established as part of the remediation at the Site was disturbed in conjunction with the construction of the new Millennium Parkway Talcott Street Extension (Millennium Parkway) project in Summer/Fall 2014. Disturbance of the soil cover was completed in accordance with the provisions of the Excavation Work Plan (EWP) of the SMP. The cover system was restored by the end of 2014 in accordance with the Record of Decision (ROD) and the SMP upon completion of the new roadway.

3.0 NON-COMPLIANCE

The following areas of non-compliance were identified at the Site during the annual inspection conducted in conjunction with the development of the 2014 Periodic Review Report for the Site, and were subsequently corrected pursuant to the NYSDEC-approved CAWP:

1. Excavation spoils generated from off-site sources during the construction of the Millennium Parkway in Summer/Fall 2014 were stockpiled on the western portion of the Site (See Figure 3). This material was not properly analyzed per NYSDEC DER-10 requirements prior to its placement at the Site; therefore, the Site was not in compliance with the SMP at that time; and

2. The stockpile was not in compliance with the Master Erosion Control Plan (MECP) as the pile crossed the western Site boundary and extended onto the west adjoining property (known as the Edgewood Property). Per the MECP, no stockpiled material is permitted within 50 feet of the Site parcel boundaries.

4.0 CORRECTIVE MEASURES

4.1 Stockpile Characterization

The material in the stockpile was characterized pursuant to the CAWP and the ensuing results were submitted to the NYSDEC by Chautauqua County on March 24, 2016 in the form of a Stockpile Characterization Report (Appendix 1). Based on the analytical data generated for the stockpiled material, NYSDEC mandated the removal of all of the stockpiled material from the Site and adjacent Edgewood property. This requirement was conveyed by NYSDEC in a letter dated April 27, 2016, which called for the disposal of the stockpiled material at an approved waste disposal facility.

4.2 Waste Stream Profiling/Approval

In a letter dated July 26, 2016, the NYSDEC approved the off-site transport and disposal of the stockpiled material at the Chautauqua County Landfill (Site No. 07152). Subsequently, the Chautauqua County Landfill accepted and approved a permit application for the disposal of the material at their facility on July 27, 2016. Refer to Appendix 2 for waste stream profiling/approval documentation.

4.3 Stockpile Removal

From August 1-18, 2016, a majority of the stockpiled material was transported off-site by D&H Excavating, Inc. (D&H) to the Chautauqua County landfill. LaBella was on-site during these timeframes to conduct air monitoring during excavation and loading operations. On August 18, 2016, the NYSDEC

required the termination of load-out activities at the Site due to excessive tracking of soil onto public roads by trucks exiting the Site destined for the landfill. At NYSDEC's request, a Truck Tracking Prevention & Control Plan (TTPCP) was developed and submitted on September 15, 2016 to address this issue. This plan received NYSDEC approval and load-out operations were resumed and completed on October 6, 2016. Refer to Appendix 3 for stockpile removal field documentation.

4.4 Transport and Disposal Records

Stockpile removal activities resulted in the transport of approximately 29,788 tons of C&D debris and soil to the Chautauqua County landfill by D&H. Refer to Appendix 4 for transport and disposal records including waste manifests and tonnage tickets.

4.5 Air Monitoring

As indicated above, LaBella conducted air monitoring throughout the course of stockpile removal activities. Three air monitors, one upwind and two downwind, were positioned proximate the remaining stockpile each day. Test data reports were completed each day and are included in Appendix 5. Based upon the results, no exceedances of NYSDEC or New York State Department of Health guidance thresholds were identified.

4.6 Cover System Evaluation

4.6.1 Thickness Survey

Following completion of the stockpile removal, KHEOPS was retained by the County to conduct a survey to determine the thickness of the Site soil cover within the former stockpile footprint. The KHEOPS survey compared ground surface elevations within the former stockpile footprint with the elevations of the base of the demarcation layer installed during the remediation of the Site in 2010. The difference between these elevations represented the thickness of the cover system. Based upon the results of the survey, it was determined that the cover system thickness within a majority of the former stockpile footprint was in compliance with the "one-foot of clean soil" thickness requirement identified within the SMP. However, according to the survey, the cover system thickness along the northwestern perimeter of the Site, in an area that encompassed approximately 0.7 acres, was not in compliance with this thickness requirement. This survey is presented in Appendix 6 and shows the approximate limits of the aforementioned 0.7-acre area where the cover system thickness had been denuded to less than the required cover system thickness of one foot. The corresponding repair of the cover system in this area through the placement of DER-10 compliant, clean soil is described in Section 4.7.

4.6.2 Confirmatory Sampling and Analysis

Per the requirements of the CAWP, confirmatory sampling and analysis were required following removal of the stockpile material. Consequently, The County retained C&S Companies (C&S) to obtain eight surface soil samples within the limits of the former stockpile area for chemical analysis. The soil samples were submitted for laboratory analysis of target compound list (TCL) SVOCs and target analyte list (TAL) metals. Based upon the analytical results, it was determined that all stockpiled soils had been properly removed from the Site and that the material remaining at the surface within the area of the former stockpile met the applicable NYSDEC Soil Cleanup Objectives (Part 375 Commercial and/or Industrial Use). A copy of the confirmatory sampling and analysis report is included as Appendix 7.

4.7 Cover System Repair

4.7.1 Source of Imported Cover Soil

The D&H mine located at 1400 Jones Road in Freedom, New York was identified as the intended source of virgin soil to be used to augment the cover system in the 0.7-acre area of denuded cover soil on the Site. Therefore, the County retained C&S to collect one soil sample from this mine for laboratory analysis of TCL VOCs, TLC SVOCs, TCL pesticides, polychlorinated biphenyls and TAL Metals to verify compliance with DER-10 limits for imported soil. Based upon the analytical results from this sample, it was determined that this source material was acceptable for use in augmenting the cover system. Appendix 7 also includes the analytical results for the virgin-source material.

4.7.2 Cover Soil Placement

On January 26 and 30, 2017, approximately 1,064 tons of virgin soil was delivered to the Site from the D&H mine identified above in Section 4.7.1. The virgin soil was roughly graded within the 0.7-acre area of the former stockpile footprint where the cover thickness was less than the one-foot thickness requirement. LaBella was on-site during delivery and grading activities to observe dust conditions and assure that the TTPCP was implemented properly. Refer to Appendix 8 for cover soil placement field documentation and bills of lading for the imported virgin soil.

4.7.3 Final Cover Survey and Inspection

Final grading activities were completed within the 0.7-acre cover repair area of the former stockpile footprint on February 27, 2017. Subsequently, on February 28, 2017, a final survey was conducted within this area of the former stockpile footprint and confirmed that the soil cover thickness in the area of the repair satisfies the thickness requirement established in the SMP. LaBella conducted a visual inspection of the final soil cover system on March 1, 2017 and determined that the cover system is intact and functioning as designed on the Site. Refer to Appendix 9 for the final cover system survey and associated field documentation. Lastly, Appendix 10 includes the completed Institutional and Engineering Controls Certification Form.

APPENDIX 7

Groundwater Sampling Logs

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

Well I.D. Ex-MW-11R

Site Location: Roblin Steel Site Dunkirk, NY

Job No. **2160148**

Sample Date: 2-2-18

LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	12:15				12:30		
Depth of well	18.65						
Depth to water	7.75						
Well diameter	2"						
Well volume (gallons)	1.744						
Purging device							
Containment device							
Purge time							
Gallons purged					1.744		
Sample device							
Field Parameters							
Temperature	6.6				7.5		
pH measurement	8.06				7.71		
Conductivity (mS/cm)	0.025				0.683		
ORP/Eh (mV)	55.2				-57.8		
Turbidity (NTUs)	22.2				16.7		

WEATHER: 12°F Cloudy

NOTES/FIELD OBSERVATIONS:

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

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

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

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

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

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

Well I.D. MW-9R
Site Location: Robbin Steel Site
Job No. **2160148**
Sample Date: 2-2-18
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	15:20				15:50		
Depth of well	16.7						
Depth to water	5.7						
Well diameter	2"						
Well volume (gallons)	1.76						
Purging device							
Containment device							
Purge time							
Gallons purged					1.76		
Sample device							
Field Parameters							
Temperature	6.4				5.0		
pH measurement	8.01				7.64		
Conductivity (mS/cm)	0.900				0.088		
ORP/Eh (mV)	-47.0				-68.7		
Turbidity (NTUs)	11.8				12.6		

WEATHER: SNOWING 17°F
NOTES/FIELD OBSERVATIONS:
Sulfur odor - black particles

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

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

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

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

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

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

Site Location: Rodin Steel Site
Sample Date: Feb 2, 2018
LaBella Representative:

Well I.D. MW-12
Job No. **2160148**

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	16:00				16:30		
Depth of well	23.94						
Depth to water	7.4						
Well diameter	2"						
Well volume (gallons)	2.64						
Purging device							
Containment device							
Purge time							
Gallons purged					2.64		
Sample device							
Field Parameters							
Temperature	7.1				6.4		
pH measurement	7.33				7.18		
Conductivity (mS/cm)	0.805				.802		
ORP/Eh (mV)	-27.2				26.6		
Turbidity (NTUs)	12.0				8.7		

WEATHER:

NOTES/FIELD OBSERVATIONS:

ON HOLD

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

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

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

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

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

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

Site Location: Robin Steel Site
Sample Date: 2-2-18
LaBella Representative:

Well I.D. Ex MW-12
Job No. **2160148**

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	11:50				12:10		
Depth of well	23.1						
Depth to water	8.75						
Well diameter	2"						
Well volume (gallons)	2.296						
Purging device							
Containment device							
Purge time							
Gallons purged					2.296		
Sample device							
Field Parameters							
Temperature	6.3				7.6		
pH measurement	7.60				7.28		
Conductivity (mS/cm)	1.017				1.050		
ORP/Eh (mV)	~~84.6~~				30.9		
Turbidity (NTUs)	35				19		

WEATHER: 12° F cloudy

NOTES/FIELD OBSERVATIONS:

Sample on hold

slow recharge

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

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

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

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

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

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

Well I.D. MW-2R

Site Location: Robin Steel Site

Job No. **2160148**

Sample Date: 2-2-18

LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	13:00				13:35		
Depth of well	23.25						
Depth to water	7.4						
Well diameter	2"						
Well volume (gallons)	2.536						
Purging device	PD						
Containment device							
Purge time							
Gallons purged					2.536		
Sample device							
Field Parameters							
Temperature	8.3				7.8		
pH measurement	7.45				7.57		
Conductivity (mS/cm)	.906				.901		
ORP/Eh (mV)	19.0				-25		
Turbidity (NTUs)	21.8				14.5		

WEATHER: 40 F

NOTES/FIELD OBSERVATIONS:

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

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

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

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

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

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

Well I.D. MW-1
Site Location: Robin Steel Site, Dunkirk, NY
Job No. **2160148**
Sample Date: 2-2-18
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	13:50				14:10		
Depth of well	18.15						
Depth to water	3.85						
Well diameter	2"						
Well volume (gallons)	2.288						
Purging device							
Containment device							
Purge time							
Gallons purged					2.288		
Sample device							
Field Parameters							
Temperature	7.9				8.5		
pH measurement	8.09				8.01		
Conductivity (mS/cm)	0.627				0.611		
ORP/Eh (mV)	-183.9				-269		
Turbidity (NTUs)	5.7				6.4		

WEATHER:
NOTES/FIELD OBSERVATIONS:
ON HOLD
Sulfur odor

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

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

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

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

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

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

Well I.D. MW-4
Site Location: Roblin Steel Site
Job No. **2160148**
Sample Date: 2-2-18
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	14:15				14:40		
Depth of well	16.04						
Depth to water	4.8						
Well diameter	2"						
Well volume (gallons)	1.8						
Purging device							
Containment device							
Purge time							
Gallons purged					1.8		
Sample device							
Field Parameters							
Temperature	8.8				7.7		
pH measurement	7.56				7.35		
Conductivity (mS/cm)	1.037				1.011		
ORP/Eh (mV)	-156.1				-92.5		
Turbidity (NTUs)	7				14.0		

WEATHER: Cold - 140F Cloudy

NOTES/FIELD OBSERVATIONS:

ON HOLD

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

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

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

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

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

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

Well I.D. MW-7R
Site Location: Roblin Steel Site
Job No. **2160148**
Sample Date: Feb 2, 2018
LaBella Representative:

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	14:45	15:10			16:10		
Depth of well	17.57						
Depth to water	5.0						
Well diameter	2"						
Well volume (gallons)	2.01						
Purging device							
Containment device							
Purge time							
Gallons purged					2.01		
Sample device							
Field Parameters							
Temperature	6.5				7.5		
pH measurement	7.78				7.73		
Conductivity (mS/cm)	0.028				1.768		
ORP/Eh (mV)	56.6				-44.2		
Turbidity (NTUs)	23.4				2.9		

WEATHER:

NOTES/FIELD OBSERVATIONS:

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

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

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

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

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

APPENDIX 8

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: 480-130902-1
Client Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY
Revision: 1

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

Attn: Chris Kibler

Melissa Deyo

Authorized for release by:
2/16/2018 10:57:43 AM

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

Table of Contents

Qualifiers

GC/MS VOA

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

Glossary

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

Case Narrative

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Job ID: 480-130902-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-130902-1

Revision I
This report was revised to include additional sample which were originally on hold and to correct a sample ID.

Receipt
The samples were received on 2/2/2018 5:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.7º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-398560 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane and Trichlorofluoromethane . The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: AL-2 (480-130902-1), AL-1 (480-130902-2), DUP (480-130902-4), EX-MW-11R (480-130902-6), MW-2R (480-130902-7), MW-7R (480-130902-10), MW-09 (480-130902-11) and TRIP BLANK (480-130902-13).

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-7R (480-130902-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: EX-MW-11R (480-130902-6). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: AL-1 (480-130902-2), MW-09 (480-130902-11), (480-130902-B-11 MS) and (480-130902-B-11 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-399926 recovered outside acceptance criteria, low biased, for Chloromethane. 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: EX-MW-12 (480-130902-5), MW-1 (480-130902-8), MW-4 (480-130902-9) and MW-12 (480-130902-12).

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: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: AL-2 — Lab Sample ID: 480-130902-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.1		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.87	J	1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	2.4		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.50	J	1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	1.2		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: AL-1 — Lab Sample ID: 480-130902-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.2		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	7.6	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	18		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.45	J	1.0	0.19	ug/L	1		8260C	Total/NA
Cyclohexane	17		1.0	0.18	ug/L	1		8260C	Total/NA
Ethylbenzene	1.1		1.0	0.74	ug/L	1		8260C	Total/NA
Methylcyclohexane	16		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.81	J	1.0	0.51	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.4		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	55		1.0	0.46	ug/L	1		8260C	Total/NA
Xylenes, Total	3.3		2.0	0.66	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	850		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	150		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: AL-7 — Lab Sample ID: 480-130902-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.5		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.96	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: DUP — Lab Sample ID: 480-130902-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	15		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.91	J	1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	0.75	J	1.0	0.18	ug/L	1		8260C	Total/NA

Client Sample ID: EX-MW-12 — Lab Sample ID: 480-130902-5

No Detections.

Client Sample ID: EX-MW-11R — Lab Sample ID: 480-130902-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	5.8		1.0	0.29	ug/L	1		8260C	Total/NA
Benzene	3.7		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	22		1.0	0.18	ug/L	1		8260C	Total/NA
Ethylbenzene	1.6		1.0	0.74	ug/L	1		8260C	Total/NA
Methylcyclohexane	23		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	0.81	J	1.0	0.51	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	4.4		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	23		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: EX-MW-11R (Continued) — Lab Sample ID: 480-130902-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	2.6		2.0	0.66	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	1500		20	16	ug/L	20		8260C	Total/NA
Vinyl chloride - DL	950		20	18	ug/L	20		8260C	Total/NA

Client Sample ID: MW-2R — Lab Sample ID: 480-130902-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.6		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	7.9		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	2.0		1.0	0.16	ug/L	1		8260C	Total/NA
Vinyl chloride	27		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1 — Lab Sample ID: 480-130902-8

No Detections.

Client Sample ID: MW-4 — Lab Sample ID: 480-130902-9

No Detections.

Client Sample ID: MW-7R — Lab Sample ID: 480-130902-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		2.0	1.6	ug/L	2		8260C	Total/NA
Trichloroethene	3.7		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	75		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: MW-09R — Lab Sample ID: 480-130902-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.2		1.0	0.29	ug/L	1		8260C	Total/NA
Benzene	2.2		1.0	0.41	ug/L	1		8260C	Total/NA
Cyclohexane	9.4		1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	7.5		1.0	0.16	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	4.2		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	39		1.0	0.46	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	410		10	8.1	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	93		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 480-130902-12

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-130902-13

No Detections.

This Detection Summary does not include radiochemical test results.

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: AL-2
Date Collected: 02/02/18 11:20
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-1
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			02/05/18 15:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 15:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 15:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 15:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 15:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/05/18 15:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 15:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 15:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 15:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 15:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 15:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 15:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 15:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 15:07	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 15:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 15:07	1
Acetone	ND		10	3.0	ug/L			02/05/18 15:07	1
Benzene	**4.1**		1.0	0.41	ug/L			02/05/18 15:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 15:07	1
Bromoform	ND		1.0	0.26	ug/L			02/05/18 15:07	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 15:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/05/18 15:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 15:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 15:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 15:07	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 15:07	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 15:07	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 15:07	1
cis-1,2-Dichloroethene	**0.87**	**J**	1.0	0.81	ug/L			02/05/18 15:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 15:07	1
Cyclohexane	**2.4**		1.0	0.18	ug/L			02/05/18 15:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 15:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/05/18 15:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 15:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 15:07	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 15:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 15:07	1
Methylcyclohexane	**0.50**	**J**	1.0	0.16	ug/L			02/05/18 15:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 15:07	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 15:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 15:07	1
Toluene	ND		1.0	0.51	ug/L			02/05/18 15:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/05/18 15:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 15:07	1
Trichloroethene	ND		1.0	0.46	ug/L			02/05/18 15:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 15:07	1
Vinyl chloride	**1.2**		1.0	0.90	ug/L			02/05/18 15:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/05/18 15:07	1

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: AL-2

Lab Sample ID: 480-130902-1

Date Collected: 02/02/18 11:20
Matrix: Water
Date Received: 02/02/18 17:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	109		80 - 120		02/05/18 15:07	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		02/05/18 15:07	1
4-Bromofluorobenzene (Surr)	107		73 - 120		02/05/18 15:07	1
Dibromofluoromethane (Surr)	107		75 - 123		02/05/18 15:07	1

Client Sample ID: AL-1

Lab Sample ID: 480-130902-2

Date Collected: 02/02/18 11:30
Matrix: Water
Date Received: 02/02/18 17:55

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			02/05/18 15:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 15:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 15:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 15:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 15:30	1
1,1-Dichloroethene	**2.2**		1.0	0.29	ug/L			02/05/18 15:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 15:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 15:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 15:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 15:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 15:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 15:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 15:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 15:30	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 15:30	1
Acetone	**7.6**	**J**	10	3.0	ug/L			02/05/18 15:30	1
Benzene	**18**		1.0	0.41	ug/L			02/05/18 15:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 15:30	1
Bromoform	ND		1.0	0.26	ug/L			02/05/18 15:30	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 15:30	1
Carbon disulfide	**0.45**	**J**	1.0	0.19	ug/L			02/05/18 15:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 15:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 15:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 15:30	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 15:30	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 15:30	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 15:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 15:30	1
Cyclohexane	**17**		1.0	0.18	ug/L			02/05/18 15:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 15:30	1
Ethylbenzene	**1.1**		1.0	0.74	ug/L			02/05/18 15:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 15:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 15:30	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 15:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 15:30	1
Methylcyclohexane	**16**		1.0	0.16	ug/L			02/05/18 15:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 15:30	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 15:30	1

Client Sample ID: AL-1

Lab Sample ID: 480-130902-2

Date Collected: 02/02/18 11:30

Matrix: Water

Date Received: 02/02/18 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 15:30	1
Toluene	**0.81**	**J**	1.0	0.51	ug/L			02/05/18 15:30	1
trans-1,2-Dichloroethene	**2.4**		1.0	0.90	ug/L			02/05/18 15:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 15:30	1
Trichloroethene	**55**		1.0	0.46	ug/L			02/05/18 15:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 15:30	1
Xylenes, Total	**3.3**		2.0	0.66	ug/L			02/05/18 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*02/05/18 15:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*02/05/18 15:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*02/05/18 15:30*	*1*
Dibromofluoromethane (Surr)	*106*		*75 - 123*		*02/05/18 15:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**850**		10	8.1	ug/L			02/06/18 14:09	10
Vinyl chloride	**150**		10	9.0	ug/L			02/06/18 14:09	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*02/06/18 14:09*	*10*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/06/18 14:09*	*10*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*02/06/18 14:09*	*10*
Dibromofluoromethane (Surr)	*109*		*75 - 123*		*02/06/18 14:09*	*10*

Client Sample ID: AL-7

Lab Sample ID: 480-130902-3

Date Collected: 02/02/18 10:35

Matrix: Water

Date Received: 02/02/18 17:55

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			02/05/18 22:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 22:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 22:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 22:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 22:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/05/18 22:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 22:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 22:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 22:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 22:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 22:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 22:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 22:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 22:52	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 22:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 22:52	1
Acetone	ND		10	3.0	ug/L			02/05/18 22:52	1
Benzene	ND		1.0	0.41	ug/L			02/05/18 22:52	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 22:52	1

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: AL-7

Lab Sample ID: 480-130902-3

Date Collected: 02/02/18 10:35
Matrix: Water
Date Received: 02/02/18 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.26	ug/L			02/05/18 22:52	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 22:52	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/05/18 22:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 22:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 22:52	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 22:52	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 22:52	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 22:52	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 22:52	1
cis-1,2-Dichloroethene	**6.5**		1.0	0.81	ug/L			02/05/18 22:52	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 22:52	1
Cyclohexane	ND		1.0	0.18	ug/L			02/05/18 22:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 22:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/05/18 22:52	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 22:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 22:52	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 22:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 22:52	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/05/18 22:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 22:52	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 22:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 22:52	1
Toluene	ND		1.0	0.51	ug/L			02/05/18 22:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/05/18 22:52	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 22:52	1
Trichloroethene	**0.96**	**J**	1.0	0.46	ug/L			02/05/18 22:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 22:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/05/18 22:52	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/05/18 22:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*02/05/18 22:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*02/05/18 22:52*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*02/05/18 22:52*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/05/18 22:52*	*1*

Client Sample ID: DUP

Lab Sample ID: 480-130902-4

Date Collected: 02/02/18 11:25
Matrix: Water
Date Received: 02/02/18 17:55

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			02/05/18 16:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 16:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 16:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 16:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 16:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/05/18 16:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 16:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 16:17	1

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: DUP
Date Collected: 02/02/18 11:25
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 16:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 16:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 16:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 16:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 16:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 16:17	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 16:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 16:17	1
Acetone	ND		10	3.0	ug/L			02/05/18 16:17	1
Benzene	**15**		1.0	0.41	ug/L			02/05/18 16:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 16:17	1
Bromoform	ND		1.0	0.26	ug/L			02/05/18 16:17	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 16:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/05/18 16:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 16:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 16:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 16:17	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 16:17	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 16:17	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 16:17	1
cis-1,2-Dichloroethene	**0.91**	**J**	1.0	0.81	ug/L			02/05/18 16:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 16:17	1
Cyclohexane	**0.75**	**J**	1.0	0.18	ug/L			02/05/18 16:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 16:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/05/18 16:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 16:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 16:17	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 16:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 16:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/05/18 16:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 16:17	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 16:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 16:17	1
Toluene	ND		1.0	0.51	ug/L			02/05/18 16:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/05/18 16:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 16:17	1
Trichloroethene	ND		1.0	0.46	ug/L			02/05/18 16:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 16:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/05/18 16:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/05/18 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*02/05/18 16:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*02/05/18 16:17*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*02/05/18 16:17*	*1*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/05/18 16:17*	*1*

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: EX-MW-12
Date Collected: 02/02/18 12:10
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/14/18 21:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/18 21:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/14/18 21:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/14/18 21:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/14/18 21:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/14/18 21:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/14/18 21:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/14/18 21:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/14/18 21:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/14/18 21:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/14/18 21:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/14/18 21:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/14/18 21:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/14/18 21:30	1
2-Hexanone	ND		5.0	1.2	ug/L			02/14/18 21:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/14/18 21:30	1
Acetone	ND		10	3.0	ug/L			02/14/18 21:30	1
Benzene	ND		1.0	0.41	ug/L			02/14/18 21:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/18 21:30	1
Bromoform	ND		1.0	0.26	ug/L			02/14/18 21:30	1
Bromomethane	ND		1.0	0.69	ug/L			02/14/18 21:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/14/18 21:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/14/18 21:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/14/18 21:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/14/18 21:30	1
Chloroethane	ND		1.0	0.32	ug/L			02/14/18 21:30	1
Chloroform	ND		1.0	0.34	ug/L			02/14/18 21:30	1
Chloromethane	ND		1.0	0.35	ug/L			02/14/18 21:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/14/18 21:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/14/18 21:30	1
Cyclohexane	ND		1.0	0.18	ug/L			02/14/18 21:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/14/18 21:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/14/18 21:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/14/18 21:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/14/18 21:30	1
Methyl acetate	ND		2.5	1.3	ug/L			02/14/18 21:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/14/18 21:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/14/18 21:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/14/18 21:30	1
Styrene	ND		1.0	0.73	ug/L			02/14/18 21:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/14/18 21:30	1
Toluene	ND		1.0	0.51	ug/L			02/14/18 21:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/14/18 21:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/14/18 21:30	1
Trichloroethene	ND		1.0	0.46	ug/L			02/14/18 21:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/14/18 21:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/14/18 21:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/14/18 21:30	1

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: EX-MW-12

Lab Sample ID: 480-130902-5

Date Collected: 02/02/18 12:10

Matrix: Water

Date Received: 02/02/18 17:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/14/18 21:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*02/14/18 21:30*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*02/14/18 21:30*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*02/14/18 21:30*	*1*

Client Sample ID: EX-MW-11R

Lab Sample ID: 480-130902-6

Date Collected: 02/02/18 12:30

Matrix: Water

Date Received: 02/02/18 17:55

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			02/05/18 16:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 16:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 16:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 16:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 16:40	1
1,1-Dichloroethene	**5.8**		1.0	0.29	ug/L			02/05/18 16:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 16:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 16:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 16:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 16:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 16:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 16:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 16:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 16:40	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 16:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 16:40	1
Acetone	ND		10	3.0	ug/L			02/05/18 16:40	1
Benzene	**3.7**		1.0	0.41	ug/L			02/05/18 16:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 16:40	1
Bromoform	ND		1.0	0.26	ug/L			02/05/18 16:40	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 16:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/05/18 16:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 16:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 16:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 16:40	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 16:40	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 16:40	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 16:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 16:40	1
Cyclohexane	**22**		1.0	0.18	ug/L			02/05/18 16:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 16:40	1
Ethylbenzene	**1.6**		1.0	0.74	ug/L			02/05/18 16:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 16:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 16:40	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 16:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 16:40	1
Methylcyclohexane	**23**		1.0	0.16	ug/L			02/05/18 16:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 16:40	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 16:40	1

Client Sample ID: EX-MW-11R

Lab Sample ID: 480-130902-6

Date Collected: 02/02/18 12:30
Matrix: Water
Date Received: 02/02/18 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 16:40	1
Toluene	**0.81**	**J**	1.0	0.51	ug/L			02/05/18 16:40	1
trans-1,2-Dichloroethene	**4.4**		1.0	0.90	ug/L			02/05/18 16:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 16:40	1
Trichloroethene	**23**		1.0	0.46	ug/L			02/05/18 16:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 16:40	1
Xylenes, Total	**2.6**		2.0	0.66	ug/L			02/05/18 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/05/18 16:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*02/05/18 16:40*	*1*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*02/05/18 16:40*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*02/05/18 16:40*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1500**		20	16	ug/L			02/05/18 23:15	20
Vinyl chloride	**950**		20	18	ug/L			02/05/18 23:15	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*02/05/18 23:15*	*20*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/05/18 23:15*	*20*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*02/05/18 23:15*	*20*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*02/05/18 23:15*	*20*

Client Sample ID: MW-2R

Lab Sample ID: 480-130902-7

Date Collected: 02/02/18 13:35
Matrix: Water
Date Received: 02/02/18 17:55

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			02/05/18 17:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 17:03	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 17:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 17:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 17:03	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/05/18 17:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 17:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 17:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 17:03	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 17:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 17:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 17:03	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 17:03	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 17:03	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 17:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 17:03	1
Acetone	ND		10	3.0	ug/L			02/05/18 17:03	1
Benzene	**5.6**		1.0	0.41	ug/L			02/05/18 17:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 17:03	1

Client Sample ID: MW-2R

Date Collected: 02/02/18 13:35
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0	0.26	ug/L			02/05/18 17:03	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 17:03	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/05/18 17:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 17:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 17:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 17:03	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 17:03	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 17:03	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 17:03	1
cis-1,2-Dichloroethene	**13**		1.0	0.81	ug/L			02/05/18 17:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 17:03	1
Cyclohexane	**7.9**		1.0	0.18	ug/L			02/05/18 17:03	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 17:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/05/18 17:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 17:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 17:03	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 17:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 17:03	1
Methylcyclohexane	**2.0**		1.0	0.16	ug/L			02/05/18 17:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 17:03	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 17:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 17:03	1
Toluene	ND		1.0	0.51	ug/L			02/05/18 17:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/05/18 17:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 17:03	1
Trichloroethene	ND		1.0	0.46	ug/L			02/05/18 17:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 17:03	1
Vinyl chloride	**27**		1.0	0.90	ug/L			02/05/18 17:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/05/18 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/05/18 17:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/05/18 17:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*02/05/18 17:03*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*02/05/18 17:03*	*1*

Client Sample ID: MW-1

Date Collected: 02/02/18 14:10
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/14/18 21:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/18 21:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/14/18 21:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/14/18 21:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/14/18 21:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/14/18 21:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/14/18 21:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/14/18 21:53	1

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: MW-1
Date Collected: 02/02/18 14:10
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/14/18 21:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/14/18 21:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/14/18 21:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/14/18 21:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/14/18 21:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/14/18 21:53	1
2-Hexanone	ND		5.0	1.2	ug/L			02/14/18 21:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/14/18 21:53	1
Acetone	ND		10	3.0	ug/L			02/14/18 21:53	1
Benzene	ND		1.0	0.41	ug/L			02/14/18 21:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/18 21:53	1
Bromoform	ND		1.0	0.26	ug/L			02/14/18 21:53	1
Bromomethane	ND		1.0	0.69	ug/L			02/14/18 21:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/14/18 21:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/14/18 21:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/14/18 21:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/14/18 21:53	1
Chloroethane	ND		1.0	0.32	ug/L			02/14/18 21:53	1
Chloroform	ND		1.0	0.34	ug/L			02/14/18 21:53	1
Chloromethane	ND		1.0	0.35	ug/L			02/14/18 21:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/14/18 21:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/14/18 21:53	1
Cyclohexane	ND		1.0	0.18	ug/L			02/14/18 21:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/14/18 21:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/14/18 21:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/14/18 21:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/14/18 21:53	1
Methyl acetate	ND		2.5	1.3	ug/L			02/14/18 21:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/14/18 21:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/14/18 21:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/14/18 21:53	1
Styrene	ND		1.0	0.73	ug/L			02/14/18 21:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/14/18 21:53	1
Toluene	ND		1.0	0.51	ug/L			02/14/18 21:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/14/18 21:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/14/18 21:53	1
Trichloroethene	ND		1.0	0.46	ug/L			02/14/18 21:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/14/18 21:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/14/18 21:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/14/18 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/14/18 21:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*02/14/18 21:53*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*02/14/18 21:53*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*02/14/18 21:53*	*1*

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: MW-4
Date Collected: 02/02/18 14:40
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/14/18 22:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/18 22:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/14/18 22:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/14/18 22:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/14/18 22:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/14/18 22:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/14/18 22:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/14/18 22:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/14/18 22:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/14/18 22:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/14/18 22:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/14/18 22:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/14/18 22:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/14/18 22:17	1
2-Hexanone	ND		5.0	1.2	ug/L			02/14/18 22:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/14/18 22:17	1
Acetone	ND		10	3.0	ug/L			02/14/18 22:17	1
Benzene	ND		1.0	0.41	ug/L			02/14/18 22:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/18 22:17	1
Bromoform	ND		1.0	0.26	ug/L			02/14/18 22:17	1
Bromomethane	ND		1.0	0.69	ug/L			02/14/18 22:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/14/18 22:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/14/18 22:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/14/18 22:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/14/18 22:17	1
Chloroethane	ND		1.0	0.32	ug/L			02/14/18 22:17	1
Chloroform	ND		1.0	0.34	ug/L			02/14/18 22:17	1
Chloromethane	ND		1.0	0.35	ug/L			02/14/18 22:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/14/18 22:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/14/18 22:17	1
Cyclohexane	ND		1.0	0.18	ug/L			02/14/18 22:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/14/18 22:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/14/18 22:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/14/18 22:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/14/18 22:17	1
Methyl acetate	ND		2.5	1.3	ug/L			02/14/18 22:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/14/18 22:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/14/18 22:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/14/18 22:17	1
Styrene	ND		1.0	0.73	ug/L			02/14/18 22:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/14/18 22:17	1
Toluene	ND		1.0	0.51	ug/L			02/14/18 22:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/14/18 22:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/14/18 22:17	1
Trichloroethene	ND		1.0	0.46	ug/L			02/14/18 22:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/14/18 22:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/14/18 22:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/14/18 22:17	1

Client Sample ID: MW-4
Lab Sample ID: 480-130902-9
Date Collected: 02/02/18 14:40
Matrix: Water
Date Received: 02/02/18 17:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		02/14/18 22:17	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/14/18 22:17	1
4-Bromofluorobenzene (Surr)	105		73 - 120		02/14/18 22:17	1
Dibromofluoromethane (Surr)	101		75 - 123		02/14/18 22:17	1

Client Sample ID: MW-7R
Lab Sample ID: 480-130902-10
Date Collected: 02/02/18 15:10
Matrix: Water
Date Received: 02/02/18 17:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			02/05/18 17:26	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			02/05/18 17:26	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			02/05/18 17:26	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			02/05/18 17:26	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			02/05/18 17:26	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			02/05/18 17:26	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			02/05/18 17:26	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			02/05/18 17:26	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			02/05/18 17:26	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			02/05/18 17:26	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			02/05/18 17:26	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			02/05/18 17:26	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			02/05/18 17:26	2
2-Butanone (MEK)	ND		20	2.6	ug/L			02/05/18 17:26	2
2-Hexanone	ND		10	2.5	ug/L			02/05/18 17:26	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			02/05/18 17:26	2
Acetone	ND		20	6.0	ug/L			02/05/18 17:26	2
Benzene	ND		2.0	0.82	ug/L			02/05/18 17:26	2
Bromodichloromethane	ND		2.0	0.78	ug/L			02/05/18 17:26	2
Bromoform	ND		2.0	0.52	ug/L			02/05/18 17:26	2
Bromomethane	ND		2.0	1.4	ug/L			02/05/18 17:26	2
Carbon disulfide	ND		2.0	0.38	ug/L			02/05/18 17:26	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			02/05/18 17:26	2
Chlorobenzene	ND		2.0	1.5	ug/L			02/05/18 17:26	2
Dibromochloromethane	ND		2.0	0.64	ug/L			02/05/18 17:26	2
Chloroethane	ND		2.0	0.64	ug/L			02/05/18 17:26	2
Chloroform	ND		2.0	0.68	ug/L			02/05/18 17:26	2
Chloromethane	ND		2.0	0.70	ug/L			02/05/18 17:26	2
cis-1,2-Dichloroethene	**190**		2.0	1.6	ug/L			02/05/18 17:26	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			02/05/18 17:26	2
Cyclohexane	ND		2.0	0.36	ug/L			02/05/18 17:26	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			02/05/18 17:26	2
Ethylbenzene	ND		2.0	1.5	ug/L			02/05/18 17:26	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			02/05/18 17:26	2
Isopropylbenzene	ND		2.0	1.6	ug/L			02/05/18 17:26	2
Methyl acetate	ND		5.0	2.6	ug/L			02/05/18 17:26	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			02/05/18 17:26	2
Methylcyclohexane	ND		2.0	0.32	ug/L			02/05/18 17:26	2
Methylene Chloride	ND		2.0	0.88	ug/L			02/05/18 17:26	2

Client Sample ID: MW-7R
Date Collected: 02/02/18 15:10
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		2.0	1.5	ug/L			02/05/18 17:26	2
Tetrachloroethene	ND		2.0	0.72	ug/L			02/05/18 17:26	2
Toluene	ND		2.0	1.0	ug/L			02/05/18 17:26	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			02/05/18 17:26	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			02/05/18 17:26	2
Trichloroethene	**3.7**		2.0	0.92	ug/L			02/05/18 17:26	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			02/05/18 17:26	2
Vinyl chloride	**75**		2.0	1.8	ug/L			02/05/18 17:26	2
Xylenes, Total	ND		4.0	1.3	ug/L			02/05/18 17:26	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*02/05/18 17:26*	*2*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*02/05/18 17:26*	*2*
4-Bromofluorobenzene (Surr)	*103*		*73 - 120*		*02/05/18 17:26*	*2*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*02/05/18 17:26*	*2*

Client Sample ID: MW-09R
Date Collected: 02/02/18 15:50
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-11
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			02/05/18 17:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 17:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 17:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 17:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 17:49	1
1,1-Dichloroethene	**1.2**		1.0	0.29	ug/L			02/05/18 17:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 17:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 17:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 17:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 17:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 17:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 17:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 17:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 17:49	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 17:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 17:49	1
Acetone	ND		10	3.0	ug/L			02/05/18 17:49	1
Benzene	**2.2**		1.0	0.41	ug/L			02/05/18 17:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 17:49	1
Bromoform	ND		1.0	0.26	ug/L			02/05/18 17:49	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 17:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/05/18 17:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 17:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 17:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 17:49	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 17:49	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 17:49	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 17:49	1

Client Sample ID: MW-09R

Date Collected: 02/02/18 15:50
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 17:49	1
Cyclohexane	**9.4**		1.0	0.18	ug/L			02/05/18 17:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 17:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/05/18 17:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 17:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 17:49	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 17:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 17:49	1
Methylcyclohexane	**7.5**		1.0	0.16	ug/L			02/05/18 17:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 17:49	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 17:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 17:49	1
Toluene	ND		1.0	0.51	ug/L			02/05/18 17:49	1
trans-1,2-Dichloroethene	**4.2**		1.0	0.90	ug/L			02/05/18 17:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 17:49	1
Trichloroethene	**39**		1.0	0.46	ug/L			02/05/18 17:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 17:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/05/18 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*80 - 120*		*02/05/18 17:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*02/05/18 17:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*02/05/18 17:49*	*1*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*02/05/18 17:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**410**		10	8.1	ug/L			02/06/18 14:36	10
Vinyl chloride	**93**		10	9.0	ug/L			02/06/18 14:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*02/06/18 14:36*	*10*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*02/06/18 14:36*	*10*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*02/06/18 14:36*	*10*
Dibromofluoromethane (Surr)	*105*		*75 - 123*		*02/06/18 14:36*	*10*

Client Sample ID: MW-12

Date Collected: 02/02/18 16:30
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/14/18 22:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/18 22:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/14/18 22:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/14/18 22:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/14/18 22:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/14/18 22:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/14/18 22:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/14/18 22:41	1

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: MW-12
Date Collected: 02/02/18 16:30
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/14/18 22:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/14/18 22:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/14/18 22:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/14/18 22:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/14/18 22:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/14/18 22:41	1
2-Hexanone	ND		5.0	1.2	ug/L			02/14/18 22:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/14/18 22:41	1
Acetone	ND		10	3.0	ug/L			02/14/18 22:41	1
Benzene	ND		1.0	0.41	ug/L			02/14/18 22:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/18 22:41	1
Bromoform	ND		1.0	0.26	ug/L			02/14/18 22:41	1
Bromomethane	ND		1.0	0.69	ug/L			02/14/18 22:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/14/18 22:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/14/18 22:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/14/18 22:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/14/18 22:41	1
Chloroethane	ND		1.0	0.32	ug/L			02/14/18 22:41	1
Chloroform	ND		1.0	0.34	ug/L			02/14/18 22:41	1
Chloromethane	ND		1.0	0.35	ug/L			02/14/18 22:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/14/18 22:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/14/18 22:41	1
Cyclohexane	ND		1.0	0.18	ug/L			02/14/18 22:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/14/18 22:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/14/18 22:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/14/18 22:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/14/18 22:41	1
Methyl acetate	ND		2.5	1.3	ug/L			02/14/18 22:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/14/18 22:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/14/18 22:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/14/18 22:41	1
Styrene	ND		1.0	0.73	ug/L			02/14/18 22:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/14/18 22:41	1
Toluene	ND		1.0	0.51	ug/L			02/14/18 22:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/14/18 22:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/14/18 22:41	1
Trichloroethene	ND		1.0	0.46	ug/L			02/14/18 22:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/14/18 22:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/14/18 22:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/14/18 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*02/14/18 22:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*02/14/18 22:41*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*02/14/18 22:41*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*02/14/18 22:41*	*1*

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: TRIP BLANK
Date Collected: 02/02/18 00:00
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/05/18 18:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 18:13	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 18:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 18:13	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 18:13	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/05/18 18:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 18:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 18:13	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 18:13	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 18:13	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 18:13	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 18:13	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 18:13	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 18:13	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 18:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 18:13	1
Acetone	ND		10	3.0	ug/L			02/05/18 18:13	1
Benzene	ND		1.0	0.41	ug/L			02/05/18 18:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 18:13	1
Bromoform	ND		1.0	0.26	ug/L			02/05/18 18:13	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 18:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/05/18 18:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 18:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 18:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 18:13	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 18:13	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 18:13	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 18:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/05/18 18:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 18:13	1
Cyclohexane	ND		1.0	0.18	ug/L			02/05/18 18:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 18:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/05/18 18:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 18:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 18:13	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 18:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 18:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/05/18 18:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 18:13	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 18:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 18:13	1
Toluene	ND		1.0	0.51	ug/L			02/05/18 18:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/05/18 18:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 18:13	1
Trichloroethene	ND		1.0	0.46	ug/L			02/05/18 18:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 18:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/05/18 18:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/05/18 18:13	1

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: TRIP BLANK
Date Collected: 02/02/18 00:00
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-13
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		80 - 120		02/05/18 18:13	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		02/05/18 18:13	1
4-Bromofluorobenzene (Surr)	105		73 - 120		02/05/18 18:13	1
Dibromofluoromethane (Surr)	104		75 - 123		02/05/18 18:13	1

Surrogate Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-130902-1	AL-2	109	103	107	107
480-130902-2	AL-1	104	109	105	106
480-130902-2 - DL	AL-1	108	102	106	109
480-130902-3	AL-7	101	109	99	107
480-130902-4	DUP	105	106	102	107
480-130902-5	EX-MW-12	95	100	102	98
480-130902-6	EX-MW-11R	103	104	103	103
480-130902-6 - DL	EX-MW-11R	104	102	103	105
480-130902-7	MW-2R	103	102	102	103
480-130902-8	MW-1	97	102	104	101
480-130902-9	MW-4	97	101	105	101
480-130902-10	MW-7R	105	106	103	105
480-130902-11	MW-09R	104	103	102	105
480-130902-11 - DL	MW-09R	106	100	102	105
480-130902-11 MS	MW-09R	104	96	100	101
480-130902-11 MSD	MW-09R	102	93	97	102
480-130902-12	MW-12	97	100	107	100
480-130902-13	TRIP BLANK	106	102	105	104
LCS 480-398560/5	Lab Control Sample	106	102	108	109
LCS 480-398666/4	Lab Control Sample	106	100	105	107
LCS 480-398707/5	Lab Control Sample	100	95	100	101
LCS 480-399926/4	Lab Control Sample	95	95	101	99
MB 480-398560/7	Method Blank	107	103	109	106
MB 480-398666/6	Method Blank	105	107	105	104
MB 480-398707/7	Method Blank	103	100	99	102
MB 480-399926/6	Method Blank	96	98	102	99

Surrogate Legend

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

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

Lab Sample ID: MB 480-398560/7
Matrix: Water
Analysis Batch: 398560

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			02/05/18 10:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 10:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 10:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 10:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 10:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/05/18 10:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 10:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 10:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 10:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 10:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 10:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 10:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 10:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 10:59	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 10:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 10:59	1
Acetone	ND		10	3.0	ug/L			02/05/18 10:59	1
Benzene	ND		1.0	0.41	ug/L			02/05/18 10:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 10:59	1
Bromoform	ND		1.0	0.26	ug/L			02/05/18 10:59	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 10:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/05/18 10:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 10:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 10:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 10:59	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 10:59	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 10:59	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 10:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/05/18 10:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 10:59	1
Cyclohexane	ND		1.0	0.18	ug/L			02/05/18 10:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 10:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/05/18 10:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 10:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 10:59	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 10:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 10:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/05/18 10:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 10:59	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 10:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 10:59	1
Toluene	ND		1.0	0.51	ug/L			02/05/18 10:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/05/18 10:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 10:59	1
Trichloroethene	ND		1.0	0.46	ug/L			02/05/18 10:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 10:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/05/18 10:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/05/18 10:59	1

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		02/05/18 10:59	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		02/05/18 10:59	1
4-Bromofluorobenzene (Surr)	109		73 - 120		02/05/18 10:59	1
Dibromofluoromethane (Surr)	106		75 - 123		02/05/18 10:59	1

Lab Sample ID: LCS 480-398560/5
Matrix: Water
Analysis Batch: 398560

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.1		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	76 - 120
1,1,2-Trichloroethane	25.0	26.4		ug/L		106	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.9		ug/L		111	61 - 148
1,1-Dichloroethane	25.0	26.0		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	26.3		ug/L		105	66 - 127
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	19.1		ug/L		76	56 - 134
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	24.8		ug/L		99	75 - 120
1,2-Dichloropropane	25.0	26.0		ug/L		104	76 - 120
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 120
2-Butanone (MEK)	125	112		ug/L		89	57 - 140
2-Hexanone	125	114		ug/L		91	65 - 127
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	71 - 125
Acetone	125	108		ug/L		86	56 - 142
Benzene	25.0	26.2		ug/L		105	71 - 124
Bromodichloromethane	25.0	24.3		ug/L		97	80 - 122
Bromoform	25.0	24.1		ug/L		96	61 - 132
Bromomethane	25.0	27.5		ug/L		110	55 - 144
Carbon disulfide	25.0	23.8		ug/L		95	59 - 134
Carbon tetrachloride	25.0	24.2		ug/L		97	72 - 134
Chlorobenzene	25.0	26.5		ug/L		106	80 - 120
Dibromochloromethane	25.0	25.5		ug/L		102	75 - 125
Chloroethane	25.0	29.2		ug/L		117	69 - 136
Chloroform	25.0	25.2		ug/L		101	73 - 127
Chloromethane	25.0	23.9		ug/L		95	68 - 124
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	25.3		ug/L		101	74 - 124
Cyclohexane	25.0	24.4		ug/L		97	59 - 135
Dichlorodifluoromethane	25.0	25.9		ug/L		103	59 - 135
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
1,2-Dibromoethane	25.0	26.2		ug/L		105	77 - 120
Isopropylbenzene	25.0	23.0		ug/L		92	77 - 122
Methyl acetate	50.0	50.3		ug/L		101	74 - 133
Methyl tert-butyl ether	25.0	25.6		ug/L		102	77 - 120
Methylcyclohexane	25.0	26.8		ug/L		107	68 - 134
Methylene Chloride	25.0	24.2		ug/L		97	75 - 124
Styrene	25.0	25.5		ug/L		102	80 - 120
Tetrachloroethene	25.0	27.0		ug/L		108	74 - 122
Toluene	25.0	25.6		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	73 - 127

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

Lab Sample ID: LCS 480-398560/5
Matrix: Water
Analysis Batch: 398560

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	24.5		ug/L		98	80 - 120
Trichloroethene	25.0	25.2		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	29.3		ug/L		117	62 - 150
Vinyl chloride	25.0	26.7		ug/L		107	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*

Lab Sample ID: MB 480-398666/6
Matrix: Water
Analysis Batch: 398666

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			02/05/18 21:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/05/18 21:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/05/18 21:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/05/18 21:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/05/18 21:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/05/18 21:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/05/18 21:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/05/18 21:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/05/18 21:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/05/18 21:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/05/18 21:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/05/18 21:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/05/18 21:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/05/18 21:30	1
2-Hexanone	ND		5.0	1.2	ug/L			02/05/18 21:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/05/18 21:30	1
Acetone	ND		10	3.0	ug/L			02/05/18 21:30	1
Benzene	ND		1.0	0.41	ug/L			02/05/18 21:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/05/18 21:30	1
Bromoform	ND		1.0	0.26	ug/L			02/05/18 21:30	1
Bromomethane	ND		1.0	0.69	ug/L			02/05/18 21:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/05/18 21:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/05/18 21:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/05/18 21:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/05/18 21:30	1
Chloroethane	ND		1.0	0.32	ug/L			02/05/18 21:30	1
Chloroform	ND		1.0	0.34	ug/L			02/05/18 21:30	1
Chloromethane	ND		1.0	0.35	ug/L			02/05/18 21:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/05/18 21:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/05/18 21:30	1
Cyclohexane	ND		1.0	0.18	ug/L			02/05/18 21:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/05/18 21:30	1

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

Lab Sample ID: MB 480-398666/6
Matrix: Water
Analysis Batch: 398666

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			02/05/18 21:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/05/18 21:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/05/18 21:30	1
Methyl acetate	ND		2.5	1.3	ug/L			02/05/18 21:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/05/18 21:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/05/18 21:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/05/18 21:30	1
Styrene	ND		1.0	0.73	ug/L			02/05/18 21:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/05/18 21:30	1
Toluene	ND		1.0	0.51	ug/L			02/05/18 21:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/05/18 21:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/05/18 21:30	1
Trichloroethene	ND		1.0	0.46	ug/L			02/05/18 21:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/05/18 21:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/05/18 21:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/05/18 21:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*80 - 120*		*02/05/18 21:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*02/05/18 21:30*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*02/05/18 21:30*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*02/05/18 21:30*	*1*

Lab Sample ID: LCS 480-398666/4
Matrix: Water
Analysis Batch: 398666

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/L		90	76 - 120
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.6		ug/L		103	61 - 148
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	25.5		ug/L		102	66 - 127
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	16.8		ug/L		67	56 - 134
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	25.2		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	26.4		ug/L		106	76 - 120
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	80 - 120
2-Butanone (MEK)	125	127		ug/L		102	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		93	71 - 125
Acetone	125	99.4		ug/L		80	56 - 142
Benzene	25.0	26.3		ug/L		105	71 - 124
Bromodichloromethane	25.0	23.7		ug/L		95	80 - 122

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

Lab Sample ID: LCS 480-398666/4
Matrix: Water
Analysis Batch: 398666

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	25.0	22.2		ug/L		89	61 - 132
Bromomethane	25.0	26.8		ug/L		107	55 - 144
Carbon disulfide	25.0	22.9		ug/L		92	59 - 134
Carbon tetrachloride	25.0	23.4		ug/L		94	72 - 134
Chlorobenzene	25.0	25.9		ug/L		103	80 - 120
Dibromochloromethane	25.0	24.4		ug/L		98	75 - 125
Chloroethane	25.0	27.6		ug/L		111	69 - 136
Chloroform	25.0	26.2		ug/L		105	73 - 127
Chloromethane	25.0	22.6		ug/L		91	68 - 124
cis-1,2-Dichloroethene	25.0	26.6		ug/L		107	74 - 124
cis-1,3-Dichloropropene	25.0	24.6		ug/L		99	74 - 124
Cyclohexane	25.0	23.1		ug/L		92	59 - 135
Dichlorodifluoromethane	25.0	22.1		ug/L		88	59 - 135
Ethylbenzene	25.0	24.9		ug/L		100	77 - 123
1,2-Dibromoethane	25.0	24.9		ug/L		100	77 - 120
Isopropylbenzene	25.0	23.2		ug/L		93	77 - 122
Methyl acetate	50.0	47.8		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	24.7		ug/L		99	77 - 120
Methylcyclohexane	25.0	24.2		ug/L		97	68 - 134
Methylene Chloride	25.0	24.6		ug/L		98	75 - 124
Styrene	25.0	24.6		ug/L		98	80 - 120
Tetrachloroethene	25.0	27.0		ug/L		108	74 - 122
Toluene	25.0	24.8		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	73 - 127
trans-1,3-Dichloropropene	25.0	23.5		ug/L		94	80 - 120
Trichloroethene	25.0	25.0		ug/L		100	74 - 123
Trichlorofluoromethane	25.0	27.6		ug/L		111	62 - 150
Vinyl chloride	25.0	25.0		ug/L		100	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Dibromofluoromethane (Surr)	*107*		*75 - 123*

Lab Sample ID: MB 480-398707/7
Matrix: Water
Analysis Batch: 398707

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			02/06/18 12:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/06/18 12:05	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/06/18 12:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/06/18 12:05	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/06/18 12:05	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/06/18 12:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/06/18 12:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/06/18 12:05	1

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

Lab Sample ID: MB 480-398707/7
Matrix: Water
Analysis Batch: 398707

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			02/06/18 12:05	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/06/18 12:05	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/06/18 12:05	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/06/18 12:05	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/06/18 12:05	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/06/18 12:05	1
2-Hexanone	ND		5.0	1.2	ug/L			02/06/18 12:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/06/18 12:05	1
Acetone	ND		10	3.0	ug/L			02/06/18 12:05	1
Benzene	ND		1.0	0.41	ug/L			02/06/18 12:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/06/18 12:05	1
Bromoform	ND		1.0	0.26	ug/L			02/06/18 12:05	1
Bromomethane	ND		1.0	0.69	ug/L			02/06/18 12:05	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/06/18 12:05	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/06/18 12:05	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/06/18 12:05	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/06/18 12:05	1
Chloroethane	ND		1.0	0.32	ug/L			02/06/18 12:05	1
Chloroform	ND		1.0	0.34	ug/L			02/06/18 12:05	1
Chloromethane	ND		1.0	0.35	ug/L			02/06/18 12:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/06/18 12:05	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/06/18 12:05	1
Cyclohexane	ND		1.0	0.18	ug/L			02/06/18 12:05	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/06/18 12:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/06/18 12:05	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/06/18 12:05	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/06/18 12:05	1
Methyl acetate	ND		2.5	1.3	ug/L			02/06/18 12:05	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/06/18 12:05	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/06/18 12:05	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/06/18 12:05	1
Styrene	ND		1.0	0.73	ug/L			02/06/18 12:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/06/18 12:05	1
Toluene	ND		1.0	0.51	ug/L			02/06/18 12:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/06/18 12:05	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/06/18 12:05	1
Trichloroethene	ND		1.0	0.46	ug/L			02/06/18 12:05	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/06/18 12:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/06/18 12:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/06/18 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*02/06/18 12:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*02/06/18 12:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*02/06/18 12:05*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*02/06/18 12:05*	*1*

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

Lab Sample ID: LCS 480-398707/5
Matrix: Water
Analysis Batch: 398707

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	23.4		ug/L		94	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	76 - 120
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.5		ug/L		98	61 - 148
1,1-Dichloroethane	25.0	23.9		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	22.5		ug/L		90	66 - 127
1,2,4-Trichlorobenzene	25.0	27.7		ug/L		111	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.2		ug/L		101	56 - 134
1,2-Dichlorobenzene	25.0	26.3		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	22.7		ug/L		91	75 - 120
1,2-Dichloropropane	25.0	25.3		ug/L		101	76 - 120
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 120
2-Butanone (MEK)	125	95.8		ug/L		77	57 - 140
2-Hexanone	125	101		ug/L		81	65 - 127
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		87	71 - 125
Acetone	125	94.1		ug/L		75	56 - 142
Benzene	25.0	23.6		ug/L		94	71 - 124
Bromodichloromethane	25.0	24.7		ug/L		99	80 - 122
Bromoform	25.0	23.6		ug/L		95	61 - 132
Bromomethane	25.0	20.8		ug/L		83	55 - 144
Carbon disulfide	25.0	22.9		ug/L		92	59 - 134
Carbon tetrachloride	25.0	24.1		ug/L		96	72 - 134
Chlorobenzene	25.0	24.6		ug/L		98	80 - 120
Dibromochloromethane	25.0	25.0		ug/L		100	75 - 125
Chloroethane	25.0	20.9		ug/L		84	69 - 136
Chloroform	25.0	23.5		ug/L		94	73 - 127
Chloromethane	25.0	19.5		ug/L		78	68 - 124
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	74 - 124
Cyclohexane	25.0	24.3		ug/L		97	59 - 135
Dichlorodifluoromethane	25.0	17.0		ug/L		68	59 - 135
Ethylbenzene	25.0	24.1		ug/L		96	77 - 123
1,2-Dibromoethane	25.0	24.7		ug/L		99	77 - 120
Isopropylbenzene	25.0	25.0		ug/L		100	77 - 122
Methyl acetate	50.0	39.4		ug/L		79	74 - 133
Methyl tert-butyl ether	25.0	23.6		ug/L		94	77 - 120
Methylcyclohexane	25.0	24.2		ug/L		97	68 - 134
Methylene Chloride	25.0	23.9		ug/L		96	75 - 124
Styrene	25.0	25.5		ug/L		102	80 - 120
Tetrachloroethene	25.0	23.4		ug/L		94	74 - 122
Toluene	25.0	23.2		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	80 - 120
Trichloroethene	25.0	23.2		ug/L		93	74 - 123
Trichlorofluoromethane	25.0	21.0		ug/L		84	62 - 150
Vinyl chloride	25.0	19.2		ug/L		77	65 - 133

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

Lab Sample ID: LCS 480-398707/5
Matrix: Water
Analysis Batch: 398707

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)	*95*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-130902-11 MS
Matrix: Water
Analysis Batch: 398707

Client Sample ID: MW-09R
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	269		ug/L		107	73 - 126
1,1,2,2-Tetrachloroethane	ND		250	243		ug/L		97	76 - 120
1,1,2-Trichloroethane	ND		250	253		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	275		ug/L		110	61 - 148
1,1-Dichloroethane	ND		250	258		ug/L		103	77 - 120
1,1-Dichloroethene	ND		250	265		ug/L		106	66 - 127
1,2,4-Trichlorobenzene	ND		250	288		ug/L		115	79 - 122
1,2-Dibromo-3-Chloropropane	ND		250	241		ug/L		96	56 - 134
1,2-Dichlorobenzene	ND		250	271		ug/L		109	80 - 124
1,2-Dichloroethane	ND		250	226		ug/L		90	75 - 120
1,2-Dichloropropane	ND		250	254		ug/L		102	76 - 120
1,3-Dichlorobenzene	ND		250	265		ug/L		106	77 - 120
1,4-Dichlorobenzene	ND		250	260		ug/L		104	78 - 124
2-Butanone (MEK)	ND		1250	994		ug/L		80	57 - 140
2-Hexanone	ND		1250	1060		ug/L		84	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		1250	1120		ug/L		90	71 - 125
Acetone	ND		1250	1020		ug/L		82	56 - 142
Benzene	ND		250	253		ug/L		101	71 - 124
Bromodichloromethane	ND		250	247		ug/L		99	80 - 122
Bromoform	ND		250	225		ug/L		90	61 - 132
Bromomethane	ND		250	225		ug/L		90	55 - 144
Carbon disulfide	ND		250	246		ug/L		98	59 - 134
Carbon tetrachloride	ND		250	265		ug/L		106	72 - 134
Chlorobenzene	ND		250	264		ug/L		106	80 - 120
Dibromochloromethane	ND		250	248		ug/L		99	75 - 125
Chloroethane	ND		250	245		ug/L		98	69 - 136
Chloroform	ND		250	247		ug/L		99	73 - 127
Chloromethane	ND		250	232		ug/L		93	68 - 124
cis-1,2-Dichloroethene	410		250	636		ug/L		91	74 - 124
cis-1,3-Dichloropropene	ND		250	239		ug/L		96	74 - 124
Cyclohexane	10		250	292		ug/L		112	59 - 135
Dichlorodifluoromethane	ND		250	224		ug/L		90	59 - 135
Ethylbenzene	ND		250	264		ug/L		106	77 - 123
1,2-Dibromoethane	ND		250	250		ug/L		100	77 - 120
Isopropylbenzene	ND		250	272		ug/L		109	77 - 122
Methyl acetate	ND		500	403		ug/L		81	74 - 133
Methyl tert-butyl ether	ND		250	236		ug/L		94	77 - 120

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

Lab Sample ID: 480-130902-11 MS
Matrix: Water
Analysis Batch: 398707

Client Sample ID: MW-09R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylcyclohexane	7.4	J	250	281		ug/L		110	68 - 134
Methylene Chloride	ND		250	248		ug/L		99	75 - 124
Styrene	ND		250	263		ug/L		105	80 - 120
Tetrachloroethene	ND		250	270		ug/L		108	74 - 122
Toluene	ND		250	257		ug/L		103	80 - 122
trans-1,2-Dichloroethene	ND		250	265		ug/L		106	73 - 127
trans-1,3-Dichloropropene	ND		250	252		ug/L		101	80 - 120
Trichloroethene	35		250	282		ug/L		99	74 - 123
Trichlorofluoromethane	ND		250	262		ug/L		105	62 - 150
Vinyl chloride	93		250	325		ug/L		93	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*96*		*77 - 120*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*
Dibromofluoromethane (Surr)	*101*		*75 - 123*

Lab Sample ID: 480-130902-11 MSD
Matrix: Water
Analysis Batch: 398707

Client Sample ID: MW-09R
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	266		ug/L		107	73 - 126	1	15
1,1,2,2-Tetrachloroethane	ND		250	245		ug/L		98	76 - 120	1	15
1,1,2-Trichloroethane	ND		250	247		ug/L		99	76 - 122	3	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		250	293		ug/L		117	61 - 148	6	20
1,1-Dichloroethane	ND		250	257		ug/L		103	77 - 120	1	20
1,1-Dichloroethene	ND		250	257		ug/L		103	66 - 127	3	16
1,2,4-Trichlorobenzene	ND		250	285		ug/L		114	79 - 122	1	20
1,2-Dibromo-3-Chloropropane	ND		250	247		ug/L		99	56 - 134	3	15
1,2-Dichlorobenzene	ND		250	265		ug/L		106	80 - 124	2	20
1,2-Dichloroethane	ND		250	224		ug/L		90	75 - 120	1	20
1,2-Dichloropropane	ND		250	261		ug/L		104	76 - 120	3	20
1,3-Dichlorobenzene	ND		250	263		ug/L		105	77 - 120	1	20
1,4-Dichlorobenzene	ND		250	265		ug/L		106	78 - 124	2	20
2-Butanone (MEK)	ND		1250	1010		ug/L		81	57 - 140	1	20
2-Hexanone	ND		1250	1040		ug/L		83	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	ND		1250	1100		ug/L		88	71 - 125	2	35
Acetone	ND		1250	1020		ug/L		82	56 - 142	0	15
Benzene	ND		250	253		ug/L		101	71 - 124	0	13
Bromodichloromethane	ND		250	245		ug/L		98	80 - 122	1	15
Bromoform	ND		250	230		ug/L		92	61 - 132	2	15
Bromomethane	ND		250	233		ug/L		93	55 - 144	4	15
Carbon disulfide	ND		250	244		ug/L		98	59 - 134	1	15
Carbon tetrachloride	ND		250	263		ug/L		105	72 - 134	1	15
Chlorobenzene	ND		250	253		ug/L		101	80 - 120	4	25
Dibromochloromethane	ND		250	246		ug/L		98	75 - 125	1	15

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

Lab Sample ID: 480-130902-11 MSD
Matrix: Water
Analysis Batch: 398707

Client Sample ID: MW-09R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroethane	ND		250	241		ug/L		96	69 - 136	2	15
Chloroform	ND		250	243		ug/L		97	73 - 127	2	20
Chloromethane	ND		250	229		ug/L		92	68 - 124	1	15
cis-1,2-Dichloroethene	410		250	632		ug/L		89	74 - 124	1	15
cis-1,3-Dichloropropene	ND		250	239		ug/L		96	74 - 124	0	15
Cyclohexane	10		250	297		ug/L		115	59 - 135	2	20
Dichlorodifluoromethane	ND		250	223		ug/L		89	59 - 135	0	20
Ethylbenzene	ND		250	259		ug/L		104	77 - 123	2	15
1,2-Dibromoethane	ND		250	241		ug/L		96	77 - 120	4	15
Isopropylbenzene	ND		250	271		ug/L		108	77 - 122	1	20
Methyl acetate	ND		500	401		ug/L		80	74 - 133	0	20
Methyl tert-butyl ether	ND		250	233		ug/L		93	77 - 120	1	37
Methylcyclohexane	7.4	J	250	293		ug/L		114	68 - 134	4	20
Methylene Chloride	ND		250	245		ug/L		98	75 - 124	1	15
Styrene	ND		250	265		ug/L		106	80 - 120	1	20
Tetrachloroethene	ND		250	264		ug/L		106	74 - 122	2	20
Toluene	ND		250	253		ug/L		101	80 - 122	2	15
trans-1,2-Dichloroethene	ND		250	256		ug/L		103	73 - 127	3	20
trans-1,3-Dichloropropene	ND		250	245		ug/L		98	80 - 120	3	15
Trichloroethene	35		250	286		ug/L		100	74 - 123	1	16
Trichlorofluoromethane	ND		250	270		ug/L		108	62 - 150	3	20
Vinyl chloride	93		250	323		ug/L		92	65 - 133	0	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*93*		*77 - 120*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: MB 480-399926/6
Matrix: Water
Analysis Batch: 399926

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			02/14/18 20:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/18 20:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/14/18 20:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/14/18 20:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/14/18 20:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/14/18 20:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/14/18 20:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/14/18 20:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/14/18 20:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/14/18 20:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/14/18 20:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/14/18 20:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/14/18 20:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/14/18 20:51	1

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

Lab Sample ID: MB 480-399926/6
Matrix: Water
Analysis Batch: 399926

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	1.2	ug/L			02/14/18 20:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/14/18 20:51	1
Acetone	ND		10	3.0	ug/L			02/14/18 20:51	1
Benzene	ND		1.0	0.41	ug/L			02/14/18 20:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/18 20:51	1
Bromoform	ND		1.0	0.26	ug/L			02/14/18 20:51	1
Bromomethane	ND		1.0	0.69	ug/L			02/14/18 20:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/14/18 20:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/14/18 20:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/14/18 20:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/14/18 20:51	1
Chloroethane	ND		1.0	0.32	ug/L			02/14/18 20:51	1
Chloroform	ND		1.0	0.34	ug/L			02/14/18 20:51	1
Chloromethane	ND		1.0	0.35	ug/L			02/14/18 20:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/14/18 20:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/14/18 20:51	1
Cyclohexane	ND		1.0	0.18	ug/L			02/14/18 20:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/14/18 20:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/14/18 20:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/14/18 20:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/14/18 20:51	1
Methyl acetate	ND		2.5	1.3	ug/L			02/14/18 20:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/14/18 20:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/14/18 20:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/14/18 20:51	1
Styrene	ND		1.0	0.73	ug/L			02/14/18 20:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/14/18 20:51	1
Toluene	ND		1.0	0.51	ug/L			02/14/18 20:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/14/18 20:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/14/18 20:51	1
Trichloroethene	ND		1.0	0.46	ug/L			02/14/18 20:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/14/18 20:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/14/18 20:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/14/18 20:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*02/14/18 20:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*		*02/14/18 20:51*	*1*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*		*02/14/18 20:51*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*02/14/18 20:51*	*1*

Lab Sample ID: LCS 480-399926/4
Matrix: Water
Analysis Batch: 399926

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.8		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.4		ug/L		86	76 - 120

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

Lab Sample ID: LCS 480-399926/4
Matrix: Water
Analysis Batch: 399926

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.8		ug/L		111	61 - 148
1,1-Dichloroethane	25.0	25.3		ug/L		101	77 - 120
1,1-Dichloroethene	25.0	25.3		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	17.9		ug/L		72	56 - 134
1,2-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 124
1,2-Dichloroethane	25.0	25.1		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	23.6		ug/L		94	76 - 120
1,3-Dichlorobenzene	25.0	25.6		ug/L		102	77 - 120
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 120
2-Butanone (MEK)	125	120		ug/L		96	57 - 140
2-Hexanone	125	112		ug/L		89	65 - 127
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	26.3		ug/L		105	71 - 124
Bromodichloromethane	25.0	24.0		ug/L		96	80 - 122
Bromoform	25.0	20.7		ug/L		83	61 - 132
Bromomethane	25.0	23.2		ug/L		93	55 - 144
Carbon disulfide	25.0	24.0		ug/L		96	59 - 134
Carbon tetrachloride	25.0	25.4		ug/L		102	72 - 134
Chlorobenzene	25.0	25.6		ug/L		102	80 - 120
Dibromochloromethane	25.0	22.9		ug/L		92	75 - 125
Chloroethane	25.0	21.2		ug/L		85	69 - 136
Chloroform	25.0	24.1		ug/L		97	73 - 127
Chloromethane	25.0	19.2		ug/L		77	68 - 124
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	24.5		ug/L		98	74 - 124
Cyclohexane	25.0	24.8		ug/L		99	59 - 135
Dichlorodifluoromethane	25.0	16.7		ug/L		67	59 - 135
Ethylbenzene	25.0	24.7		ug/L		99	77 - 123
1,2-Dibromoethane	25.0	24.2		ug/L		97	77 - 120
Isopropylbenzene	25.0	24.2		ug/L		97	77 - 122
Methyl acetate	50.0	44.3		ug/L		89	74 - 133
Methyl tert-butyl ether	25.0	24.4		ug/L		98	77 - 120
Methylcyclohexane	25.0	24.9		ug/L		99	68 - 134
Methylene Chloride	25.0	24.0		ug/L		96	75 - 124
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	27.9		ug/L		112	74 - 122
Toluene	25.0	25.5		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	23.2		ug/L		93	80 - 120
Trichloroethene	25.0	25.9		ug/L		104	74 - 123
Trichlorofluoromethane	25.0	22.6		ug/L		90	62 - 150
Vinyl chloride	25.0	19.9		ug/L		80	65 - 133

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

Lab Sample ID: LCS 480-399926/4
Matrix: Water
Analysis Batch: 399926

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123

GC/MS VOA

Analysis Batch: 398560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130902-1	AL-2	Total/NA	Water	8260C	
480-130902-2	AL-1	Total/NA	Water	8260C	
480-130902-4	DUP	Total/NA	Water	8260C	
480-130902-6	EX-MW-11R	Total/NA	Water	8260C	
480-130902-7	MW-2R	Total/NA	Water	8260C	
480-130902-10	MW-7R	Total/NA	Water	8260C	
480-130902-11	MW-09R	Total/NA	Water	8260C	
480-130902-13	TRIP BLANK	Total/NA	Water	8260C	
MB 480-398560/7	Method Blank	Total/NA	Water	8260C	
LCS 480-398560/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 398666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130902-3	AL-7	Total/NA	Water	8260C	
480-130902-6 - DL	EX-MW-11R	Total/NA	Water	8260C	
MB 480-398666/6	Method Blank	Total/NA	Water	8260C	
LCS 480-398666/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 398707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130902-2 - DL	AL-1	Total/NA	Water	8260C	
480-130902-11 - DL	MW-09R	Total/NA	Water	8260C	
MB 480-398707/7	Method Blank	Total/NA	Water	8260C	
LCS 480-398707/5	Lab Control Sample	Total/NA	Water	8260C	
480-130902-11 MS	MW-09R	Total/NA	Water	8260C	
480-130902-11 MSD	MW-09R	Total/NA	Water	8260C	

Analysis Batch: 399926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-130902-5	EX-MW-12	Total/NA	Water	8260C	
480-130902-8	MW-1	Total/NA	Water	8260C	
480-130902-9	MW-4	Total/NA	Water	8260C	
480-130902-12	MW-12	Total/NA	Water	8260C	
MB 480-399926/6	Method Blank	Total/NA	Water	8260C	
LCS 480-399926/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: AL-2
Lab Sample ID: 480-130902-1
Date Collected: 02/02/18 11:20
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	398560	02/05/18 15:07	ARS	TAL BUF

Client Sample ID: AL-1
Lab Sample ID: 480-130902-2
Date Collected: 02/02/18 11:30
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	10	398707	02/06/18 14:09	ARS	TAL BUF
Total/NA	Analysis	8260C		1	398560	02/05/18 15:30	ARS	TAL BUF

Client Sample ID: AL-7
Lab Sample ID: 480-130902-3
Date Collected: 02/02/18 10:35
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	398666	02/05/18 22:52	AMM	TAL BUF

Client Sample ID: DUP
Lab Sample ID: 480-130902-4
Date Collected: 02/02/18 11:25
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	398560	02/05/18 16:17	ARS	TAL BUF

Client Sample ID: EX-MW-12
Lab Sample ID: 480-130902-5
Date Collected: 02/02/18 12:10
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	399926	02/14/18 21:30	RRS	TAL BUF

Client Sample ID: EX-MW-11R
Lab Sample ID: 480-130902-6
Date Collected: 02/02/18 12:30
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	398560	02/05/18 16:40	ARS	TAL BUF
Total/NA	Analysis	8260C	DL	20	398666	02/05/18 23:15	AMM	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: MW-2R
Lab Sample ID: 480-130902-7
Date Collected: 02/02/18 13:35
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	398560	02/05/18 17:03	ARS	TAL BUF

Client Sample ID: MW-1
Lab Sample ID: 480-130902-8
Date Collected: 02/02/18 14:10
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	399926	02/14/18 21:53	RRS	TAL BUF

Client Sample ID: MW-4
Lab Sample ID: 480-130902-9
Date Collected: 02/02/18 14:40
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	399926	02/14/18 22:17	RRS	TAL BUF

Client Sample ID: MW-7R
Lab Sample ID: 480-130902-10
Date Collected: 02/02/18 15:10
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	398560	02/05/18 17:26	ARS	TAL BUF

Client Sample ID: MW-09R
Lab Sample ID: 480-130902-11
Date Collected: 02/02/18 15:50
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	10	398707	02/06/18 14:36	ARS	TAL BUF
Total/NA	Analysis	8260C		1	398560	02/05/18 17:49	ARS	TAL BUF

Client Sample ID: MW-12
Lab Sample ID: 480-130902-12
Date Collected: 02/02/18 16:30
Matrix: Water
Date Received: 02/02/18 17:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	399926	02/14/18 22:41	RRS	TAL BUF

Lab Chronicle

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Client Sample ID: TRIP BLANK
Date Collected: 02/02/18 00:00
Date Received: 02/02/18 17:55

Lab Sample ID: 480-130902-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	398560	02/05/18 18:13	ARS	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: LaBella Associates DPC
Project/Site: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

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: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY

TestAmerica Job ID: 480-130902-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-130902-1	AL-2	Water	02/02/18 11:20	02/02/18 17:55
480-130902-2	AL-1	Water	02/02/18 11:30	02/02/18 17:55
480-130902-3	AL-7	Water	02/02/18 10:35	02/02/18 17:55
480-130902-4	DUP	Water	02/02/18 11:25	02/02/18 17:55
480-130902-5	EX-MW-12	Water	02/02/18 12:10	02/02/18 17:55
480-130902-6	EX-MW-11R	Water	02/02/18 12:30	02/02/18 17:55
480-130902-7	MW-2R	Water	02/02/18 13:35	02/02/18 17:55
480-130902-8	MW-1	Water	02/02/18 14:10	02/02/18 17:55
480-130902-9	MW-4	Water	02/02/18 14:40	02/02/18 17:55
480-130902-10	MW-7R	Water	02/02/18 15:10	02/02/18 17:55
480-130902-11	MW-09R	Water	02/02/18 15:50	02/02/18 17:55
480-130902-12	MW-12	Water	02/02/18 16:30	02/02/18 17:55
480-130902-13	TRIP BLANK	Water	02/02/18 00:00	02/02/18 17:55

TestAmerica Buffalo
10 Hazelwood Drive

Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

240172

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

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

480-130902 COC

Client Contact	Project Manager: Adam Zebrowski	Site Contact:	Date:	COC No:
Company Name: LaBella Associates	Tel/Fax:	Lab Contact:	Carrier	1 of 2 COCs
Address: 300 Penri St	Analysis Turnaround Time			Sampler:
City/State/Zip: Buffalo/NY	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 716-710-3043	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks Standard			Lab Sampling:
Project Name: 320 S. Roberts Rd, Dunkirk, NY	☐ 1 week			
Site: 320 S. Roberts Rd, Dunkirk, NY	☐ 2 days			Job / SDG No.:
P O # 2160148	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	TCL VOCs	Sample Specific Notes:
AL-2	2-2-18	11:20	G	GW	3			X	
AL-1	2-2-18	11:30	G	GW	3			X	
AL-7	2-2-18	10:35	G	GW	3			X	
DUP	2-2-18	11:25	G	GW	3			X	
EX-MW-12	2-2-18	12:10	G	GW	3			X	ON HOLD
Ex-MW-11R	2-2-18	12:30	G	GW	3			X	
MW-2R	2-2-18	13:35	G	GW	3			X	
MW-1	2-2-18	14:10	G	GW	3			X	ON HOLD
MW-4	2-2-18	14:40	G	GW	3			X	ON HOLD
MW-7R	2-2-18	15:10	G	GW	3			X	
MW-09	2-2-18	15:50	G	GW	3			X	
MW-12	2-2-18	16:30	G	GW	3			X	ON HOLD

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:
Digital copy of NYS Level IV Category B electronic data report

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 0.7 Corr'd:_____ | Therm ID No.: #4

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Matthew Kauer	LaBella Assoc.	2/2/18 1755		TDS	2/2/18 1755
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2/16/2018 (Rev. 1)

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Shannon Dalton	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-108964-25354.2
Client Contact: Shannon Dalton	Phone: 716-710-3043	E-Mail: melissa.deyo@testamericainc.com		Page: Page 2 of 2
Company: LaBella Associates DPC				Job #:
Address: 300 Pearl Street Suite 130	Due Date Requested:			
City: Buffalo	TAT Requested (days): standard			
State, Zip: NY, 14202				
Phone:	PO #: Purchase Order Requested			
Email: SDalton@LaBellaPC.com	WO #:			
Project Name: Phase 2 - 320 S. Roberts Rd., Dunkirk,NY	Project #: 48017502			
Site: 320 S. Roberts Rd Dunkirk,NY	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
TRIP Blank	2-2-18	-	-	Water			X		
				Water					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Katherine Bauer	2/2/18 17:55			2/2/18 1755	TAS
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.7°C ICE #4

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: LaBella Associates DPC

Job Number: 480-130902-1

Login Number: 130902

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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