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Division of Environmental Remediation
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Groundwater Monitoring Summary Report

Site #907022 – Al-Tech Specialty Steel Corporation
Willowbrook Avenue
Dunkirk, New York

April 14, 2021

Version 1.0

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Willowbrook Avenue, Dunkirk, New York

Prepared for:
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New York State Department of Environmental Conservation
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Date:
April 14, 2021

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Acronyms

DUP	Sample duplicate
DUSR	Quality Assessment Data Usability Summary Report
fmsl	Feet above mean sea level
fbtoc	Feet below top-of-casing
GES	Groundwater & Environmental Services, Inc.
GMSR	Groundwater Monitoring Summary Report
GPS	Global positioning system
HDPE	High density polyethylene
MPS	Multi probe system
MS	Matrix spike
MSD	Matrix spike duplicate
ND	Non-detect
NYSDEC	New York State Department of Environmental Conservation
PCB	Polychlorinated biphenyl
PFAS	Perfluoroalkyl and polyfluoroalkyl substance(s)
PPE	Personal protective equipment
SVOC	Semi-volatile organic compound
TCA	1,1,1-Trichloroethane
TestAmerica	TestAmerica Laboratories, Inc.
TOGS 1.1.1 WQS	*Technical and Operation Guidance Series 1.1.1 Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations*, amended April 2000
USEPA	United States Environmental Protection Agency
VOC	Volatile organic compound

1 Introduction

Groundwater and Environmental Services, Inc. (GES) has prepared this *Groundwater Monitoring Summary Report* (GMSR) to summarize the groundwater gauging and sampling activities conducted at Site #907022 – Al-Tech Specialty Steel Corporation (the "Site") from February 25, 2021 to February 26, 2021. Sampling activities were completed to analyze groundwater throughout the Lucas Ave. portion of the Site for the presence of volatile organic compounds (VOCs), and metals.

2 Site Location

The Site is a part of New York State Department of Environmental Conservation (NYSDEC) State Superfund Program and referred to as Site #907022. The Site is located at the intersection of Willowbrook Avenue and Brigham Road between Willowbrook Avenue and West Lucas Avenue in Dunkirk, New York as shown in the Site Location Map (**Figure 1**) and Site Map (**Figure 2**). The area surrounding the Site consists of residential and commercial properties as well as a school.

3 Groundwater Monitoring Activities

3.1 Groundwater Gauging and Sampling

Prior to sampling, depth to groundwater data was collected from twenty-one (21) monitoring wells using an electronic sonic oil/water interface probe. Adjusted groundwater elevations were determined utilizing the May and June 2018 depth to water measurements and historic top of riser survey elevations provided in Table 1 of the *Groundwater Monitoring Summary Report* (Benchmark Environmental Engineering & Science, PLLC, October 5, 2011). Historic top of riser elevations were reported in feet above mean sea level (fmsl). Adjusted groundwater elevations collected at the Site on February 25, 2021 ranged from 0.50 feet below top of casing (fbtoc) at TW-13 and TW-15 to 16.65 fbtoc at RFI-34. Groundwater at the Site generally flows toward the northwest. Groundwater gauging measurements and groundwater elevations are provided in **Table 1.**

GES personnel performed groundwater sampling from February 25, 2021 through February 26, 2021, following United States Environmental Protection Agency's (USEPA) *Low-Flow Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* (Revised January 19, 2010).

Groundwater samples were collected from twenty-one (22) monitoring wells for analysis of a variety of analyses including VOCs, and metals. Additionally, eleven (11) monitoring wells were analyzed for hexavalent chromium (CrVI) (TW-5A, TW-6, TW-7, TW-8, TW-9, TW-12, TW-13, TW-14, TW-15, RFI-08A, and MW-6). Each low-flow sampling set-up included a YSI DDS PRO series multi-meter with flow through cell attachment to monitor groundwater quality stability prior to sampling. To conduct low-flow sampling, a peristaltic pump was utilized at each monitoring

well. High density polyethylene (HDPE) tubing was inserted into the well to recover groundwater and silicon tubing was utilized at the pump and flow through cell interface.

Recovered groundwater was stored in laboratory-supplied bottleware. Upon completion of sampling activities, the coolers were delivered to Eurofins Laboratories (Eurofins) facility located in Amherst, New York for analysis of VOCs, and metals.

3.2 Laboratory Sample Analysis: Quality Assurance/Quality Control

Eurofins in Amherst, New York analyzed the groundwater samples collected at the Site. Eurofins provided full category B deliverables with laboratory analytical data and are included as **Appendix A**. Additionally, a Quality Assessment Data Usability Summary Report (DUSR) was performed by RemVer, Inc. of Colchester Connecticut and is included as **Appendix B**. RemVer found all results included in the laboratory analytical reports to be acceptable for use.

Care was taken during all aspects of the sample collection to ensure that high quality data was obtained. Duplicate (DUP) samples, matrix spike, and matrix spike duplicate (MS/MSD) samples were collected for every twenty (20) field samples and submitted for analysis to assure quality of both the sample collection procedure and the laboratory preparation/analytical method. All samples were submitted to Eurofins under proper chain of custody.

4 Analytical Results

The laboratory analytical data is summarized in **Table 2** and **Table 3**. Detected analytical concentrations were compared to NYSDEC Technical and Operation Guidance Series 1.1.1 *Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations*, amended April 2000 (TOGS 1.1.1 WQS). The groundwater monitoring maps which plot groundwater concentrations of select analytes across the Site are included as **Figure 3** and **Figure 4**. The following is a summary of the laboratory analytical results:

4.1 Volatile Organic Compounds

Based on the laboratory analytical results, groundwater in four (4) monitoring wells (LAE-4, RFI-26, RFI-31, and RFI-34) was found to contain concentrations of VOCs that exceed the TOGS 1.1.1 WQS. Benzene, cis-1,2-dichloroethene, trans-1,2-Dichloroethene, trichloroethene, and total Xylenes exceeded TOGS 1.1.1 WQS in one (1) or more of the monitoring well samples listed above. Groundwater analytical data for VOCs are summarized in **Table 2**. Exceedances are shown on **Figure 3**.

4.2 Metals

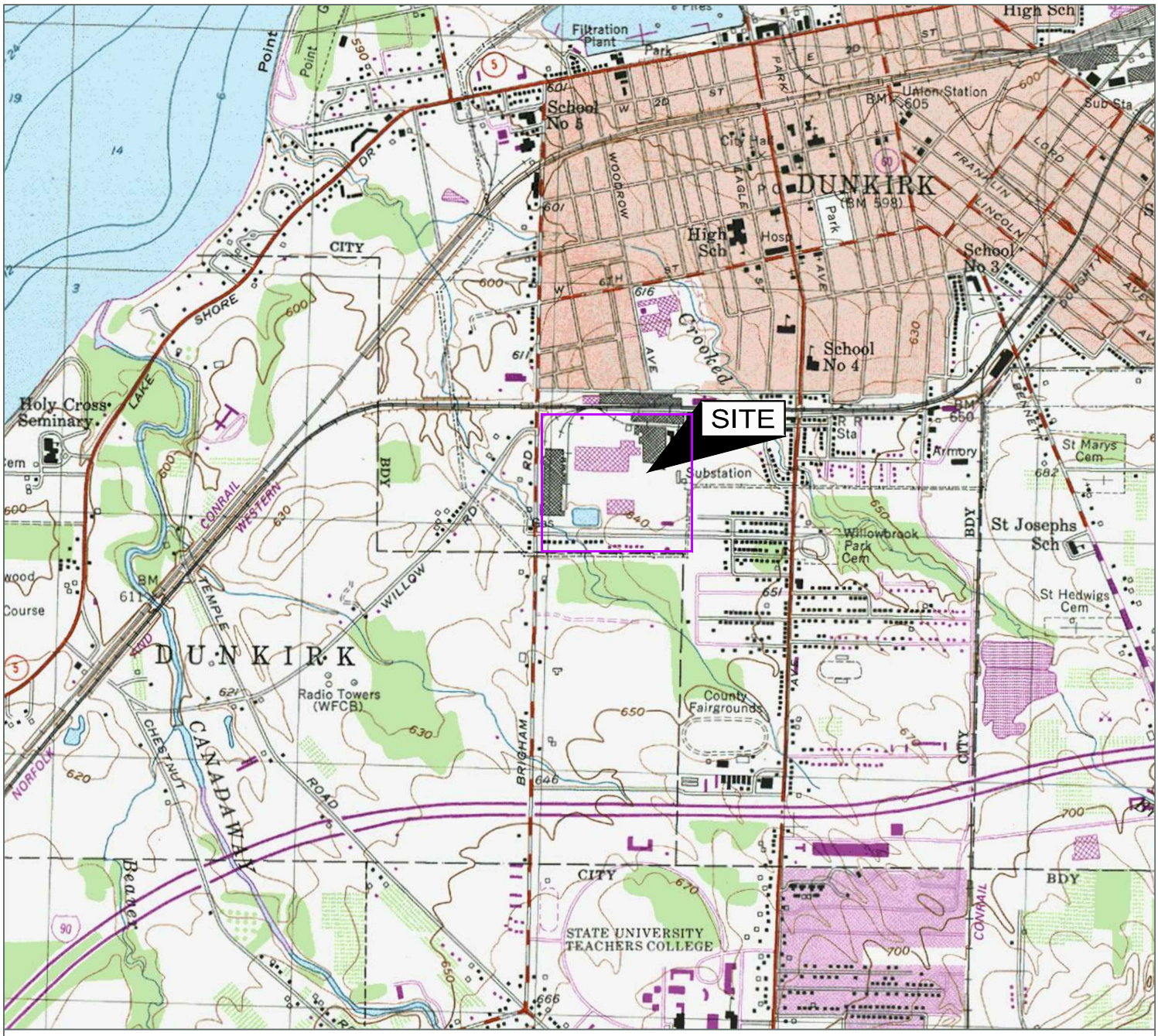
Based on the laboratory analytical results, groundwater in twenty (20) monitoring wells (LAE-4, MW-6, MW-7, RFI-05A, RFI-18, RFI-08A, RFI-26, RFI-27, RFI-31, RFI-34, RFI-35, TW-5A, TW-12, TW-13, TW-14, TW-15, TW-6, TW-7, TW-8, TW-9) were found to contain concentrations of metals that exceed the TOGS 1.1.1 WQS. Chromium, Iron, Magnesium, and Manganese,

exceeded TOGS 1.1.1 WQS in one (1) or more of the monitoring well samples listed above. One monitoring well (TW-15) was found to contain concentrations of Chromium VI that exceeds the TOGS 1.1.1 WQS. Groundwater analytical data for metals and Chromium VI are summarized in **Table 3**. Exceedances are shown on **Figure 4**.

5 Conclusions

GES conducted groundwater monitoring activities at the Site on February 25 and 26, 2021 Sampling activities were completed to analyze groundwater at twenty (20) monitoring wells throughout the Lucas Ave. portion of the Site for the presence of VOCs, and metals. Based on the findings of the February 2021 groundwater monitoring event, groundwater beneath the Site contains VOCs, and metals at concentrations that exceed the TOGS 1.1.1 WQS.

Figures



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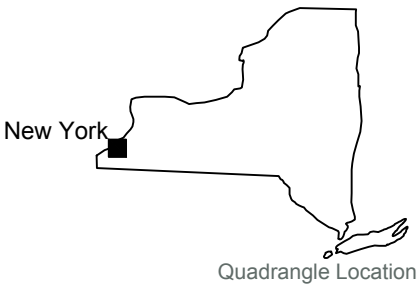
USGS 7.5 Minute Series
Topographic Quadrangle, 1979
Dunkirk, New York
Contour Interval = 10'



Quadrangle Location

Site Location Map

NYSDEC
Former Al Tech Specialty Steel Corp
Willowbrook Pond Operable Unit
Dunkirk, New York

Drawn W.G.S.
Designed
Approved
Date 4/25/19
Figure 1

Scale In Feet
0 2000

Groundwater & Environmental Services, Inc.

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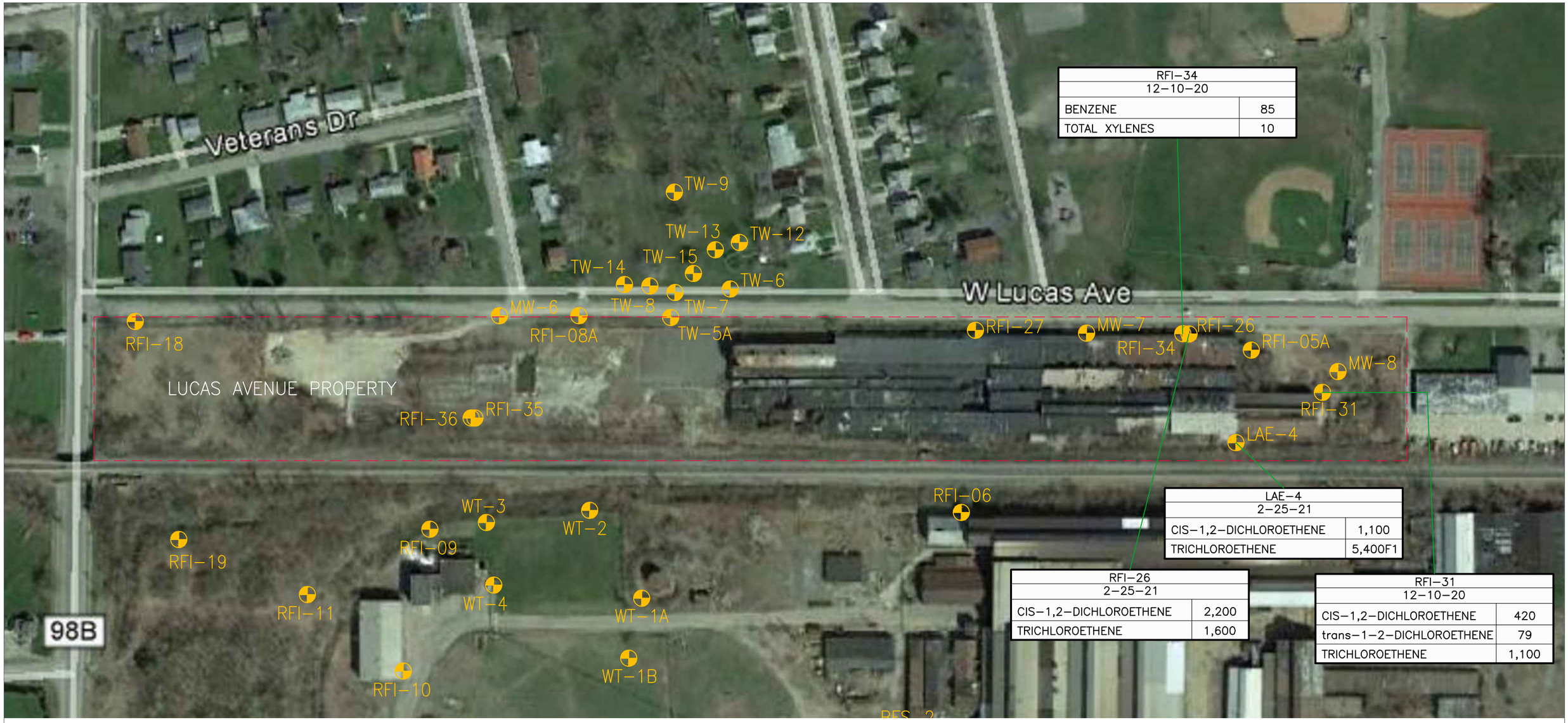


RFI-34	
12-10-20	
BENZENE	85
TOTAL XYLENES	10

LAE-4	
2-25-21	
CIS-1,2-DICHLOROETHENE	1,100
TRICHLOROETHENE	5,400F1

RFI-26	
2-25-21	
CIS-1,2-DICHLOROETHENE	2,200
TRICHLOROETHENE	1,600

RFI-31	
12-10-20	
CIS-1,2-DICHLOROETHENE	420
trans-1-2-DICHLOROETHENE	79
TRICHLOROETHENE	1,100

LEGEND

MONITORING WELL

TOGS 1.1.1 WQS AMBIENT WATER QUALITY STANDARDS GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS, AMENDED APRIL 2000

F1 MATRIX SPIKE AND/OR MATRIX DUPLICATE RECOVERY IS OUTSIDE ACCEPTANCE LIMITS

J APPROXIMATE CONCENTRATION

NOTES:

ALL ANALYTICAL DATA REPORTED IN MICROGRAMS PER LITER (ug/L)

ONLY ANALYTICAL EXCEEDING TOGS 1.1.1 WQS IS SHOWN.

Groundwater VOCs Exceedance
February 2021

NYSDEC
Former Al Tech Specialty Steel Corp
Lucas Avenue
Dunkirk, New York

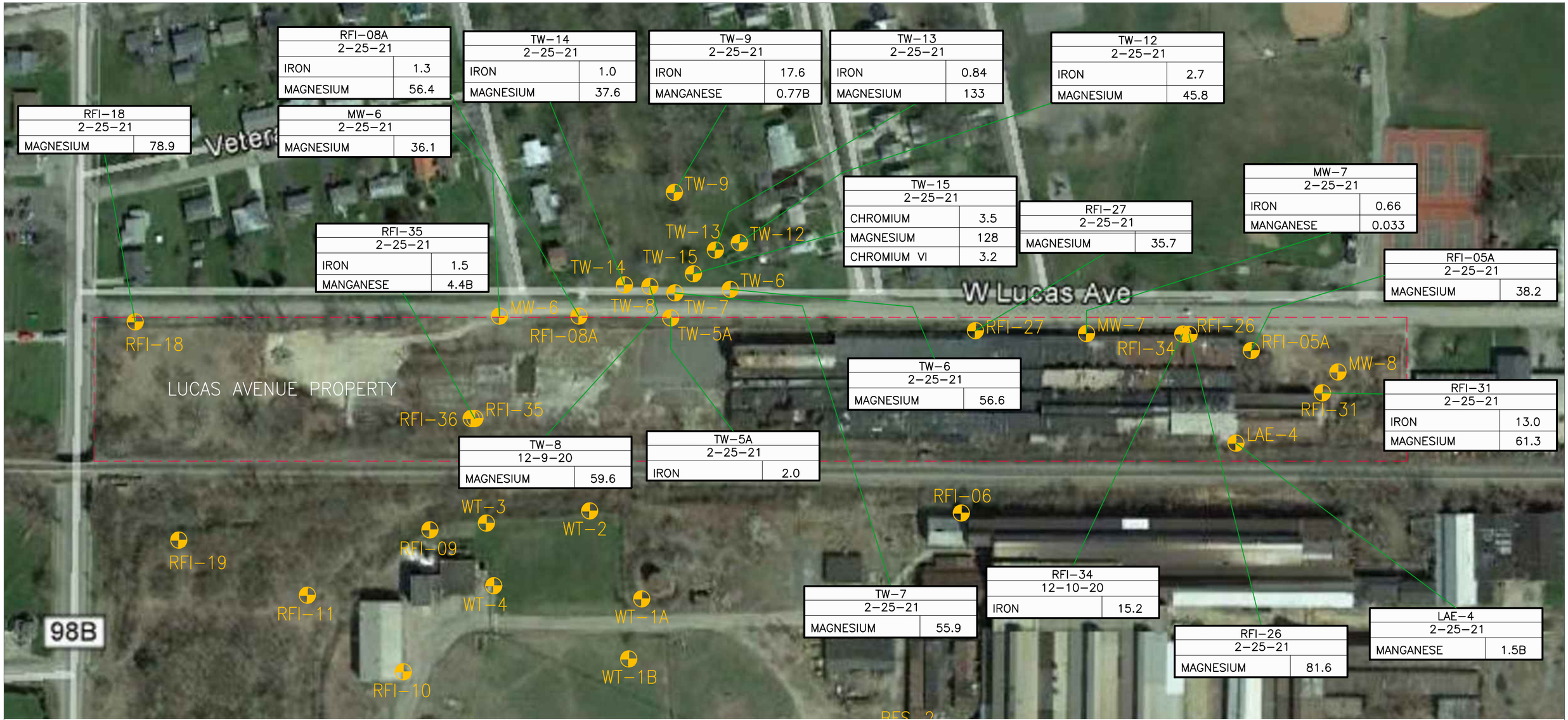
Drawn W.G.S.
Designed
Approved
Date 4/12/21
Figure

N

Scale In Feet
0 150

Groundwater & Environmental Services, Inc.

M:\Graphics\0900-Buffalo\NYSDEC\Dunkirk-altec\Dunkirk-altec SM.dwg, SM150-lucas, WShea



LEGEND

- MONITORING WELL
- TOGS 1.1.1 WQS AMBIENT WATER QUALITY STANDARDS GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS, AMENDED APRIL 2000
- B ALSO FOUND IN METHOD BLANK

NOTES:

ALL ANALYTICAL DATA REPORTED IN MICROGRAMS PER LITER (ug/L)

ONLY ANALYTICAL EXCEEDING TOGS 1.1.1 WQS IS SHOWN.

Groundwater Metals Exceedance
February 2021

NYSDEC
Former Al Tech Specialty Steel Corp
Lucas Avenue
Dunkirk, New York

Drawn W.G.S.
Designed
Approved
Date 4/12/21
Figure

Scale In Feet
0 150

Groundwater & Environmental Services, Inc.

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Tables

Table 1
Groundwater Monitoring Data

Monitoring Well	Date	Top of Casing (ft)	Depth to Water (ft)	Depth to Product (ft)	Adjusted GW Elevation (ft)	Longitude (deg)	Latitude (deg)
Lucas Avenue							
RFI-05A	03/25/2021	NSD	5.56	NP	NA	-79.339339072	42.474331855
RFI-08A	03/25/2021	NSD	flooded	NP	NA	-79.343230961	42.474453545
RFI-18	03/25/2021	621.52	16.10	NP	605.42	-79.345798840	42.474411491
RFI-26	03/25/2021	631.07	8.05	NP	623.02	-79.339699950	42.474398310
RFI-27	03/25/2021	633.68	8.85	NP	624.83	-79.340936675	42.474406397
RFI-31	03/25/2021	631.72	6.73	NP	624.99	NA	NA
RFI-34	03/25/2021	NSD	16.65	NP	NA	-79.339736090	42.474399532
RFI-35	03/25/2021	NSD	9.73	NP	NA	-79.343827852	42.474011186
RFI-36	03/25/2021	NSD	9.50	NP	NA	-79.343850008	42.474010881
MW-6	03/25/2021	NSD	1.00	NP	NA	-79.343690541	42.474450261
MW-7	03/25/2021	NSD	7.85	NP	NA	-79.340292779	42.474398019
MW-8	03/25/2021	NSD	9.65	NP	NA	-79.338836717	42.474243242
LAE-4	03/25/2021	632.28	4.25	NP	628.03	-79.339422691	42.473934933
TW-6	03/25/2021	NSD	flooded	NP	NA	-79.342357359	42.474573845
TW-7	03/25/2021	NSD	flooded	NP	NA	NA	NA
TW-8	03/25/2021	NSD	flooded	NP	NA	-79.342822424	42.474583470
TW-9	03/25/2021	NSD	flooded	NP	NA	-79.342685584	42.474986496
TW-12	03/25/2021	NSD	flooded	NP	NA	-79.342306736	42.474773914
TW-13	03/25/2021	NSD	0.50	NP	NA	-79.342445259	42.474741125
TW-14	03/25/2021	NSD	2.75	NP	NA	-79.342969828	42.474588953
TW-15	03/25/2021	630.54	0.50	NP	630.04	-79.342571158	42.474638916

Notes:

deg = degrees
ft = feet
GW = Groundwater
DRY = No water for sampling
NA = Not Applicable
NP = No Product
NSD = No Survey Data

Table 1

Groundwater Analytical Data Summary: Volatile Organic Compounds

Sample Location		LAE-4	MW-6	MW-7	RFI-08A	RFI-05A	RFI-18	RFI-26	RFI-27	RFI-31	RFI-34	RFI-35	RFI-36	TW-12
Sample Date		2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	3/25/2021
Analytes (Method 8260C)	TOGS 1.1.1 WQS (ug/L)	Concentrations reported in micrograms per liter (ug/L)												Concentrations report
1,1,1-Trichloroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2,2-Tetrachloroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2-Trichloroethane	1	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1-Dichloroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1-Dichloroethene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2,4-Trichlorobenzene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dibromo-3-chloropropane	0.04	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichlorobenzene	3	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichloroethane	0.6	ND < 100 U F1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichloropropane	1	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,3-Dichlorobenzene	3	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,4-Dichlorobenzene	3	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
2-Butanone (MEK)	50	ND < 100 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 400	ND < 10 U	ND < 400	ND < 20 U	ND < 10 U	ND < 10 U	ND < 10 U
2-Hexanone	50	ND < 100 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 200	ND < 5.0 U	ND < 200	ND < 10.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U
4-Methyl-2-pentanone (MIBK)	-	ND < 100 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 200	ND < 5.0 U	ND < 200	ND < 10.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U
Acetone	50	ND < 100 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 400	ND < 10 U	ND < 400	ND < 10.0 U	ND < 10 U	ND < 10 U	ND < 10 U
Benzene	1	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	**85**	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Bromodichloromethane	50	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Bromoform	50	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Bromomethane	50	ND < 100 U F2	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Carbon Disulfide	60	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Carbon tetrachloride	5	ND < 100 U F1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chlorobenzene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Dibromochloromethane	50	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chloroethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chloroform	7	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	1.1
Chloromethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
cis-1,2-Dichloroethene	5	**1100**	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	**2,200**	ND < 1.0 U	**420**	1.5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
cis-1,3-Dichloropropene	0.4	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Cyclohexane	-	ND < 100 U F1	ND < 1.0 U	ND < 1.0 U	0.31 J	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 41	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Dichlorodifluoromethane	5	ND < 100 U F1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Ethylbenzene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	1.6	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dibromoethane	0.0006	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Isopropylbenzene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	2.3	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Methyl acetate	-	ND < 100 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 100	ND < 2.5 U	ND < 100	ND < 5.0 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U
Methyl tert-butyl ether	10	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Methylcyclohexane	-	ND < 100 U	0.29 J	ND < 1.0 U	0.38 J	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	9.8	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Methylene chloride	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 41	ND < 1.0 U	ND < 41	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Styrene	50	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Tetrachloroethene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Toluene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	1.3	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
trans-1,2-Dichloroethene	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	**79**	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
trans-1,3-Dichloropropene	0.4	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Trichloroethene	5	**5400 F1**	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	**1,600**	ND < 1.0 U	**1,100**	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Trichlorofluoromethane	5	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Vinyl Chloride	2	ND < 100 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 40	ND < 1.0 U	ND < 40	ND < 2.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Xylenes, Total	5	ND < 200 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 80	ND < 2.0 U	ND < 80	**10**	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U

NOTES:

Bold values indicate analytical result exceedes TOGS 1.1.1 WQS

TOGS 1.1.1 WQS = Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000

µg/L = micrograms per liter

U = Analyte analyzed for, but not detected above the sample's reported quantitation limit

- = no published regulatory standard

J = Analyte positively identified at a numerical value that is the approximate concentration of the analyte in the sample or Analyte not detected above the sample quantitation limit; the associated quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample

aqueous equipment (EB), trip (TB), or bottle

NA = not analyzed

J+/- = Sample likely to have a high/low bias, respectively

F1 = Matrix Spike and or Matrix Spike Duplicate Recovery is outsdie acceptance limits

F2 = Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

* = Isotope dilution analyte is outside acceptance limits; laboratory control sample or laboratory control sample duplicate is outside acceptance limits

Table 1

Groundwater Analytical Data Summary: Volatile Organic Compounds

Sample Location		TW-13	TW-14	TW-15	TW-5A	TW-6	TW-7	TW-8	TW-9
Sample Date		2/25/2021	9/29/2020	3/25/2021	2/25/2021	2/25/2021	9/29/2020	2/25/2021	2/25/2021
Analytes (Method 8260C)	TOGS 1.1.1 WQS (ug/L)	ted in micrograms per liter (ug/L)							
1,1,1-Trichloroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U F0	ND < 1.0 U F1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2,2-Tetrachloroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2-Trichloroethane	1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1-Dichloroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,1-Dichloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2,4-Trichlorobenzene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dibromo-3-chloropropane	0.04	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichlorobenzene	3	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichloroethane	0.6	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dichloropropane	1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,3-Dichlorobenzene	3	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,4-Dichlorobenzene	3	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
2-Butanone (MEK)	50	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U	ND < 10 U
2-Hexanone	50	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U
4-Methyl-2-pentanone (MIBK)	-	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U	ND < 5.0 U
Acetone	50	ND < 10 U	3.5 J	ND < 10 U	ND < 10 U	ND < 10 U	3.0 J	ND < 10 U	3.2 J
Benzene	1	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Bromodichloromethane	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Bromoform	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Bromomethane	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Carbon Disulfide	60	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Carbon tetrachloride	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chlorobenzene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Dibromochloromethane	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chloroethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chloroform	7	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Chloromethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
cis-1,2-Dichloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
cis-1,3-Dichloropropene	0.4	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Cyclohexane	-	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Dichlorodifluoromethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Ethylbenzene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
1,2-Dibromoethane	0.0006	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Isopropylbenzene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Methyl acetate	-	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U	ND < 2.5 U
Methyl tert-butyl ether	10	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Methylcyclohexane	-	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Methylene chloride	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Styrene	50	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Tetrachloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Toluene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
trans-1,2-Dichloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
trans-1,3-Dichloropropene	0.4	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Trichloroethene	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Trichlorofluoromethane	5	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Vinyl Chloride	2	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U	ND < 1.0 U
Xylenes, Total	5	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U	ND < 2.0 U

NOTES:
Bold values indicate analytical result exceedes TOGS 1.1.1 WQ
TOGS 1.1.1 WQS = Ambient Water Quality Standards Guidance
µg/L = micrograms per liter
U = Analyte analyzed for, but not detected above the sample's re
- = no published regulatory standard
J = Analyte positively identified at a numerical value that is the ap
aqueous equipment (EB), trip (TB), or bottle
NA = not analyzed
J+/- = Sample likely to have a high/low bias, respectively
F1 = Matrix Spike and or Matrix Spike Duplicate Recovery is outs
F2 = Matrix Spike/Matrix Spike Duplicate Relative Percent Differe
* = Isotope dilution analyte is outside acceptance limits; laborator

Table 3

Groundwater Analytical Data Summary: Metals

Sample Location		LAE-4	MW-6	MW-7	RFI-05A	RFI-18	RFI-08A	RFI-26	RFI-27	RFI-31	RFI-34	RFI-35
Sample Date		2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021
Analytes (Method 6010C)	**TOGS 1.1.1 WQS (mg/L)**	**Concentrations reported in milligrams per liter (mg/L)**										**Concentrations report**
Aluminum	-	ND < 0.20 U	ND < 0.20 U	0.42	ND < 0.20 U	ND < 0.20 U	0.29	ND < 0.20 U	0.10 J	0.18 J	12.1	0.75
Antimony	0.006	ND < 0.020 U	ND < 0.020 U F1	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U
Arsenic	0.05	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	0.028	ND < 0.015 U
Barium	2.00	0.10	1.4	0.08	0.093	0.10	**2.3**	0.024	0.032	0.060	0.22	0.46
Beryllium	0.003	ND < 0.0020 U	ND < 0.0020 U	0.00030 J	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	0.00030 J	ND < 0.0020 U	0.00040 J	0.00080 J	ND < 0.0020 U
Cadmium	0.01	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	0.00053 J	ND < 0.0020 U	0.00050 J	0000059 J	ND < 0.0020 U	0.00069 J	ND < 0.0020 U
Calcium	-	115	101	142	158	181	247	149	135	206	32.9	116
Chromium	1.00	ND < 0.0040 U	ND < 0.0040 U	0.0080	ND < 0.0040 U	0.0012 J	0.0013 J	ND < 0.0040 U	ND < 0.0040 U	ND < 0.0040 U	0.057	ND < 0.0040 U
Cobalt	-	0.0036 J	ND < 0.0040 U	0.0011 J	ND < 0.0040 U	0.00070 J	ND < 0.0040 U	ND < 0.0040 U	0.0034 J	0.0021 J	0.0078	0.0023 J
Copper	1.00	ND < 0.010 U	ND < 0.010 U	0.014	ND < 0.010 U	ND < 0.010 U	0.0024 J	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	0.021	ND < 0.010 U
Iron	0.60	0.22	0.39	**0.66**	0.038 J	0.59	**1.3**	0.39	0.17	**13.0**	**15.2**	**1.5**
Lead	0.050	ND < 0.010 U	ND < 0.010 U	**0.033**	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	0.0039 J	0.064	ND < 0.010 U
Magnesium	35.0	25.5	**36.1**	21.9	**38.2**	**78.9**	**56.4**	**81.6**	**35.7**	**61.3**	14.1	31.5
Manganese	0.60	**1.5 B**	0.049 B	0.18 B	0.055 B	0.25 B	0.82 B	0.056 B	0.85 B	0.18 B	0.18 B	**4.4 B**
Nickel	0.20	0.0061 J	ND < 0.010 U	0.010	ND < 0.010 U	ND < 0.010 U	0.0020 J	ND < 0.010 U	0.0044 J	0.0043 J	0.049	0.0048 J
Potassium	-	0.07 B	4.3	7.4 B	1.1 B	5.2 B	7.9	4.2 B	2.1 B	2.2 B	7.5 B	2.8 B
Selenium	0.02	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U
Silver	0.10	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U
Sodium	-	15.3	164	30.2	17.0	242	555	45.7	33.6	399	263	57.7
Thallium	0.0005	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U
Vanadium	-	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	0.0033 J	ND < 0.0050 U	0.036	ND < 0.0050 U
Zinc	5.0	0.0024 J	0.19	0.026	ND < 0.010 U	0.0037 J	0.034	0.0022 J	0.0038 J	0.0049 J	0.13	0.0087 J
Analyte (Method 7470A)	**TOGS 1.1.1 WQS (mg/L)**	**Concentrations reported in milligrams per liter (mg/L)**										**Concentrations report**
Mercury	0.0014	ND< 0.00020 U	ND < 000020 U	0.00012 J	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	0.00013 J
Analyte (Method 7196A)	**TOGS 1.1.1 WQS (mg/L)**	**Concentrations reported in milligrams per liter (mg/L)**										**Concentrations report**
Chromium VI	0.10	-	ND < 0.010 U	-	-	-	ND < 0.010 U	-	-	-	-	-

NOTES:

Bold values indicate analytical result exceedes TOGS 1.1.1 WQS

TOGS 1.1.1 WQS = Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000

mg/L = milligrams per liter

U = Analyte analyzed for, but not detected above the sample's reported quantitation limit

- = no published regulatory standard

J = Analyte positively identified at a numerical value that is the approximate concentration of the analyte in the sample or Analyte not detected above the sample quantitation limit; the associated quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measur

B = An analyte identified in method blank (B), aqueous equipment (EB), trip (TB), or bottle blanks (BB) used to assess field contamination associated with soil or sediment samples mandates these qualifiers for only soil and sediment sample results.

NA = not analyzed

J+/- = Sample likely to have a high/low bias, respectively

F1 = Matrix Spike and or Matrix Spike Duplicate Recovery is outsdie acceptance limits

F2 = Matrix Spike/Matrix Spike Duplicate Relative Percent Difference exceeds control limits

* = Isotope dilution analyte is outside acceptance limits; laboratory control sample or laboratory control sample duplicate is outside acceptance limits

Table 3

Groundwater Analytical Data Summary: Metals

Sample Location		RFI-36	TW-12	TW-13	TW-14	TW-15	TW-5A	TW-6	TW-7	TW-8	TW-9
Sample Date		2/25/2021	2/25/2021	2/25/2021	9/29/2020	2/25/2021	2/25/2021	2/25/2021	9/29/2020	2/25/2021	2/25/2021
Analytes (Method 6010C)	**TOGS 1.1.1 WQS (mg/L)**	ted in milligrams per liter (mg/L)									
Aluminum	-	ND < 0.20 U	ND < 0.20 U	0.14 J	0.083 J	0.12 J	0.57	0.29	0.087 J	ND < 0.20 U	13.2
Antimony	0.006	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020
Arsenic	0.05	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND <0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U	ND < 0.015 U
Barium	2.00	0.091	0.058	0.041	0.72 ^	0.075	0.30	0.26	0.057 ^	0.15	0.15
Beryllium	0.003	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	0.00045 J
Cadmium	0.01	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	ND < 0.0020 U	0.0063	ND < 0.0020 U	0.015	ND < 0.0020 U	0.036	0.010
Calcium	-	55.2	165	388	125	358	84.9	253	148	214	50.4
Chromium	1.00	ND < 0.0040 U	0.0018 J	0.0011 J	ND < 0.0040 U	**3.5**	0.0061	0.0040	0.021	ND < 0.0040 U	0.026
Cobalt	-	ND < 0.0040 U	0.0017 J	ND < 0.0040 U	ND < 0.0040 U	ND < 0.0040 U	0.0042	ND < 0.0040 U	0.0016 J	ND < 0.0040 U	0.0065
Copper	1.00	ND < 0.010 U	0.0032 J	ND < 0.010 U	ND < 0.010 U	0.0040 J	0.0018 J	0.0040 J	ND < 0.010 U	0.0028 J	0.013
Iron	0.60	0.073	**2.7**	**0.84**	**1.0**	0.30	**2.0**	0.37	0.097	0.10	**17.6**
Lead	0.050	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	ND < 0.010 U	0.0054 J	ND < 0.010 U	ND < 0.010 U	0.024
Magnesium	35.0	18.4	**45.8**	**133**	**37.6**	**128**	21.7	**56.6**	**55.9**	**59.6**	13.5
Manganese	0.60	0.036 B	0.20 B	0.14 B	0.071 B	0.040 B	2.0 B	0.14 B	0.10 B	0.070 B	**0.77 B**
Nickel	0.20	ND < 0.010 U	0.0037 J	0.0022 J	ND < 0.010 U	0.012	0.0076 J	0.0044 J	0.0027 J	0.057 J	0.027
Potassium	-	5.3 B	3.2	7.1	4.1	8.0	3.2	14.3 F1	6.1	5.8	5.4
Selenium	0.02	ND < 0.025 U	ND < 0.025 U	ND < 0.025	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U	ND < 0.025 U
Silver	0.10	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0050	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U	ND < 0.0060 U
Sodium	-	345	137	301	480	1010	482	1670	499	529	9.5
Thallium	0.0005	ND < 0.020 U	ND < 0.020 U	ND < 0.020	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U	ND < 0.020 U
Vanadium	-	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	ND < 0.0050 U	0.024
Zinc	5.0	000086 J	0.73	0.016	0.0076 J	0.19	0.11	0.017	0.0016 J	0.021	0.10
Analyte (Method 7470A)	**TOGS 1.1.1 WQS (mg/L)**	ted in milligrams per liter (mg/L)									
Mercury	0.0014	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020 U	ND < 0.00020
Analyte (Method 7196A)	**TOGS 1.1.1 WQS (mg/L)**	ted in milligrams per liter (mg/L)									
Chromium VI	0.10	-	ND < 0.010 U	ND < 0.010	0.0050 J H	**3.2**	ND < 0.010	ND < 0.010	ND < 0.010	ND < 0.010 U	ND < 0.010

NOTES:
Bold values indicate analytical result excee
TOGS 1.1.1 WQS = Ambient Water Quality
mg/L = milligrams per liter
U = Analyte analyzed for, but not detected a
- = no published regulatory standard
J = Analyte positively identified at a numeric the analyte in the sample
B = An analyte identified in method blank (E
NA = not analyzed
J+/- = Sample likely to have a high/low bias
F1 = Matrix Spike and or Matrix Spike Dupli
F2 = Matrix Spike/Matrix Spike Duplicate Re
* = Isotope dilution analyte is outside accep

Appendix A – Category B Laboratory Analytical Reports

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-181451-1
Client Project/Site: Al Tech Specialty Steel #907022

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Damianos Skaros

Authorized for release by:
3/8/2021 8:06:49 AM

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Orlette Johnson
Senior Project Manager
3/8/2021 8:06:49 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-181451-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-181451-1

Receipt
The samples were received on 2/25/2021 4:27 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method 6010C: The low level continuing calibration verification (CCVL 480-570873/25) recovered above the upper control limit for Total Iron. The samples associated with this CCVL were either less than the reporting limit (RL) for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCVL; therefore, re-analysis of samples (LCS 480-570672/2-A) and (MB 480-570672/1-A) was not performed.

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

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181451-1

Client Sample ID: TW-8 — Lab Sample ID: 480-181451-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.036		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	214		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0028	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.10		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	59.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.070	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0057	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	5.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	529		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.021		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-6 — Lab Sample ID: 480-181451-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.29		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.26		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.015		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	253		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0040		0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0040	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.37		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0054	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	56.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.14	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0044	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	14.3	F1	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1670		5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.017		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-13 — Lab Sample ID: 480-181451-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.14	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.041		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	388		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0011	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0030	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.84		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	133		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.14	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0022	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	301		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.016		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-12 — Lab Sample ID: 480-181451-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.1		1.0	0.34	ug/L	1		8260C	Total/NA
Barium	0.058		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	165		0.50	0.10	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: TW-12 (Continued)
Lab Sample ID: 480-181451-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0018	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0017	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0032	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	2.7		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	45.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.20	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0037	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	3.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	137		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.73		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-15
Lab Sample ID: 480-181451-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.12	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.075		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.0063		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	358		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	3.5		0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0040	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.30		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	128		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.040	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.012		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	8.0		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1010		5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.19		0.010	0.0015	mg/L	1		6010C	Total/NA
Chromium, hexavalent	3.2		0.25	0.13	mg/L	25		7196A	Total/NA

Client Sample ID: TW-7
Lab Sample ID: 480-181451-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.20		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.11		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	304		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	1.9		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0013	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0036	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.4		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	102		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.13	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0064	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	6.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1040		5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.0054	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Chromium, hexavalent	0.98		0.050	0.025	mg/L	5		7196A	Total/NA

Client Sample ID: TW-9
Lab Sample ID: 480-181451-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.2	J	10	3.0	ug/L	1		8260C	Total/NA
Aluminum	13.2		0.20	0.060	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TW-9 (Continued)

Lab Sample ID: 480-181451-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.15		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.00045	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Cadmium	0.010		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	50.4		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.026		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0065		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.013		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	17.6		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.024		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	13.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.77	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.027		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	5.4		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	9.5		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.024		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.10		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-14

Lab Sample ID: 480-181451-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.40		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00084	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	195		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0022	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0017	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.064		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	49.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.22	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.011		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	4.5		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	929		5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.17		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: TW-5A

Lab Sample ID: 480-181451-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.57		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.30		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	84.9		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0061		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0042		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0018	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	2.0		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	21.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	2.0	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0076	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	3.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	482		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.11		0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181451-1

Client Sample ID: RFI-08A — Lab Sample ID: 480-181451-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cyclohexane	0.31	J	1.0	0.18	ug/L	1		8260C	Total/NA
Methylcyclohexane	0.38	J	1.0	0.16	ug/L	1		8260C	Total/NA
Aluminum	0.29		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	2.3		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	247		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0013	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0024	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.3		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	56.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.82	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0020	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.9		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	555		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.034		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 480-181451-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	0.29	J	1.0	0.16	ug/L	1		8260C	Total/NA
Barium	1.4		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	101		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.39		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	36.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.049	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	4.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	164		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.19		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: DUP-001 — Lab Sample ID: 480-181451-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.34		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.26		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.016		0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	252		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0044		0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0044	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.47		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0069	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	55.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.14	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0041	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	14.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	1710		5.0	1.6	mg/L	5		6010C	Total/NA
Zinc	0.018		0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-8
Lab Sample ID: 480-181451-1
Date Collected: 02/25/21 09:20
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 13:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 13:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 13:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 13:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 13:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 13:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 13:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 13:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 13:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 13:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 13:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 13:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 13:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 13:53	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 13:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 13:53	1
Acetone	ND		10	3.0	ug/L			02/26/21 13:53	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 13:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 13:53	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 13:53	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 13:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 13:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 13:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 13:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 13:53	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 13:53	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 13:53	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 13:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 13:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 13:53	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 13:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 13:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 13:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 13:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 13:53	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 13:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 13:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 13:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 13:53	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 13:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 13:53	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 13:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 13:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 13:53	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 13:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 13:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 13:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 13:53	1

Client Sample ID: TW-8

Date Collected: 02/25/21 09:20
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-1

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		02/26/21 13:53	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		02/26/21 13:53	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/26/21 13:53	1
Dibromofluoromethane (Surr)	105		75 - 123		02/26/21 13:53	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 18:34	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 18:34	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 18:34	1
Barium	**0.15**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 18:34	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 18:34	1
Cadmium	**0.036**		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 18:34	1
Calcium	**214**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 18:34	1
Chromium	ND		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 18:34	1
Cobalt	ND		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 18:34	1
Copper	**0.0028**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 18:34	1
Iron	**0.10**		0.050	0.019	mg/L		02/26/21 09:25	03/02/21 23:07	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 18:34	1
Magnesium	**59.6**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 18:34	1
Manganese	**0.070**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 18:34	1
Nickel	**0.0057**	**J**	0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 18:34	1
Potassium	**5.8**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 18:34	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 18:34	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 18:34	1
Sodium	**529**		1.0	0.32	mg/L		02/26/21 09:25	02/26/21 18:34	1
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 18:34	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 18:34	1
Zinc	**0.021**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 18:34	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-6
Lab Sample ID: 480-181451-2
Date Collected: 02/25/21 10:30
Matrix: Water
Date Received: 02/25/21 16:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	1.0	0.82	ug/L			02/26/21 14:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 14:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 14:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 14:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 14:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 14:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 14:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 14:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 14:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 14:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 14:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 14:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 14:17	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 14:17	1
Acetone	ND		10	3.0	ug/L			02/26/21 14:17	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 14:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 14:17	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 14:17	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 14:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 14:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 14:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 14:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 14:17	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 14:17	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 14:17	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 14:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 14:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 14:17	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 14:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 14:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 14:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 14:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 14:17	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 14:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 14:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 14:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 14:17	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 14:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 14:17	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 14:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 14:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 14:17	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 14:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 14:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 14:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 14:17	1

Client Sample ID: TW-6
Date Collected: 02/25/21 10:30
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-2
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		02/26/21 14:17	1
1,2-Dichloroethane-d4 (Surr)	113		77 - 120		02/26/21 14:17	1
4-Bromofluorobenzene (Surr)	102		73 - 120		02/26/21 14:17	1
Dibromofluoromethane (Surr)	111		75 - 123		02/26/21 14:17	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.29**		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 18:38	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 18:38	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 18:38	1
Barium	**0.26**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 18:38	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 18:38	1
Cadmium	**0.015**		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 18:38	1
Calcium	**253**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 18:38	1
Chromium	**0.0040**		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 18:38	1
Cobalt	ND		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 18:38	1
Copper	**0.0040**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 18:38	1
Iron	**0.37**		0.050	0.019	mg/L		02/26/21 09:25	03/02/21 23:11	1
Lead	**0.0054**	**J**	0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 18:38	1
Magnesium	**56.6**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 18:38	1
Manganese	**0.14**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 18:38	1
Nickel	**0.0044**	**J**	0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 18:38	1
Potassium	**14.3**	**F1**	0.50	0.10	mg/L		02/26/21 09:25	02/26/21 18:38	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 18:38	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 18:38	1
Sodium	**1670**		5.0	1.6	mg/L		02/26/21 09:25	03/02/21 23:41	5
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 18:38	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 18:38	1
Zinc	**0.017**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 18:38	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-13
Lab Sample ID: 480-181451-3
Date Collected: 02/25/21 11:45
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 14:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 14:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 14:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 14:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 14:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 14:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 14:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 14:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 14:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 14:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 14:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 14:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 14:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 14:41	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 14:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 14:41	1
Acetone	ND		10	3.0	ug/L			02/26/21 14:41	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 14:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 14:41	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 14:41	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 14:41	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 14:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 14:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 14:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 14:41	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 14:41	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 14:41	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 14:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 14:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 14:41	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 14:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 14:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 14:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 14:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 14:41	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 14:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 14:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 14:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 14:41	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 14:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 14:41	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 14:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 14:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 14:41	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 14:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 14:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 14:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 14:41	1

Client Sample ID: TW-13
Date Collected: 02/25/21 11:45
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-3
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		02/26/21 14:41	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		02/26/21 14:41	1
4-Bromofluorobenzene (Surr)	102		73 - 120		02/26/21 14:41	1
Dibromofluoromethane (Surr)	105		75 - 123		02/26/21 14:41	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.14**	**J**	0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:08	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:08	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:08	1
Barium	**0.041**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:08	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:08	1
Cadmium	ND		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:08	1
Calcium	**388**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:08	1
Chromium	**0.0011**	**J**	0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:08	1
Cobalt	ND		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:08	1
Copper	**0.0030**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:08	1
Iron	**0.84**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:08	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:08	1
Magnesium	**133**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:08	1
Manganese	**0.14**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:08	1
Nickel	**0.0022**	**J**	0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:08	1
Potassium	**7.1**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:08	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:08	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:08	1
Sodium	**301**		1.0	0.32	mg/L		02/26/21 09:25	02/26/21 19:08	1
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:08	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:08	1
Zinc	**0.016**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-12
Lab Sample ID: 480-181451-4
Date Collected: 02/25/21 10:30
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 15:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 15:05	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 15:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 15:05	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 15:05	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 15:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 15:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 15:05	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 15:05	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 15:05	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 15:05	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 15:05	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 15:05	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 15:05	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 15:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 15:05	1
Acetone	ND		10	3.0	ug/L			02/26/21 15:05	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 15:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 15:05	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 15:05	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 15:05	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 15:05	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 15:05	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 15:05	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 15:05	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 15:05	1
Chloroform	**1.1**		1.0	0.34	ug/L			02/26/21 15:05	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 15:05	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 15:05	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 15:05	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 15:05	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 15:05	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 15:05	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 15:05	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 15:05	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 15:05	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 15:05	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 15:05	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 15:05	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 15:05	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 15:05	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 15:05	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 15:05	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 15:05	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 15:05	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 15:05	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 15:05	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 15:05	1

Client Sample ID: TW-12

Date Collected: 02/25/21 10:30
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-4

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		02/26/21 15:05	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		02/26/21 15:05	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/26/21 15:05	1
Dibromofluoromethane (Surr)	101		75 - 123		02/26/21 15:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:12	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:12	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:12	1
Barium	**0.058**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:12	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:12	1
Cadmium	ND		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:12	1
Calcium	**165**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:12	1
Chromium	**0.0018**	**J**	0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:12	1
Cobalt	**0.0017**	**J**	0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:12	1
Copper	**0.0032**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:12	1
Iron	**2.7**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:12	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:12	1
Magnesium	**45.8**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:12	1
Manganese	**0.20**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:12	1
Nickel	**0.0037**	**J**	0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:12	1
Potassium	**3.2**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:12	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:12	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:12	1
Sodium	**137**		1.0	0.32	mg/L		02/26/21 09:25	02/26/21 19:12	1
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:12	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:12	1
Zinc	**0.73**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-15
Lab Sample ID: 480-181451-5
Date Collected: 02/25/21 09:15
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 15:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 15:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 15:29	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 15:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 15:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 15:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 15:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 15:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 15:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 15:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 15:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 15:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 15:29	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 15:29	1
Acetone	ND		10	3.0	ug/L			02/26/21 15:29	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 15:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 15:29	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 15:29	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 15:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 15:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 15:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 15:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 15:29	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 15:29	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 15:29	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 15:29	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 15:29	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 15:29	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 15:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 15:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 15:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 15:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 15:29	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 15:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 15:29	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 15:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 15:29	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 15:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 15:29	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 15:29	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 15:29	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 15:29	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 15:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 15:29	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 15:29	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 15:29	1

Client Sample ID: TW-15
Date Collected: 02/25/21 09:15
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-5
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		02/26/21 15:29	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		02/26/21 15:29	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/26/21 15:29	1
Dibromofluoromethane (Surr)	102		75 - 123		02/26/21 15:29	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.12**	**J**	0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:16	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:16	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:16	1
Barium	**0.075**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:16	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:16	1
Cadmium	**0.0063**		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:16	1
Calcium	**358**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:16	1
Chromium	**3.5**		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:16	1
Cobalt	ND		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:16	1
Copper	**0.0040**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:16	1
Iron	**0.30**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:16	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:16	1
Magnesium	**128**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:16	1
Manganese	**0.040**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:16	1
Nickel	**0.012**		0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:16	1
Potassium	**8.0**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:16	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:16	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:16	1
Sodium	**1010**		5.0	1.6	mg/L		02/26/21 09:25	03/03/21 00:00	5
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:16	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:16	1
Zinc	**0.19**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:16	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**3.2**		0.25	0.13	mg/L			02/25/21 18:15	25

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-7
Lab Sample ID: 480-181451-6
Date Collected: 02/25/21 12:10
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 15:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 15:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 15:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 15:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 15:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 15:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 15:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 15:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 15:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 15:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 15:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 15:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 15:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 15:54	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 15:54	1
Acetone	ND		10	3.0	ug/L			02/26/21 15:54	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 15:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 15:54	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 15:54	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 15:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 15:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 15:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 15:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 15:54	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 15:54	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 15:54	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 15:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 15:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 15:54	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 15:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 15:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 15:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 15:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 15:54	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 15:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 15:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 15:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 15:54	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 15:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 15:54	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 15:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 15:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 15:54	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 15:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 15:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 15:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 15:54	1

Client Sample ID: TW-7
Date Collected: 02/25/21 12:10
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-6
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		02/26/21 15:54	1
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		02/26/21 15:54	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/26/21 15:54	1
Dibromofluoromethane (Surr)	103		75 - 123		02/26/21 15:54	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.20**		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:20	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:20	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:20	1
Barium	**0.11**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:20	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:20	1
Cadmium	ND		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:20	1
Calcium	**304**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:20	1
Chromium	**1.9**		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:20	1
Cobalt	**0.0013**	**J**	0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:20	1
Copper	**0.0036**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:20	1
Iron	**1.4**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:20	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:20	1
Magnesium	**102**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:20	1
Manganese	**0.13**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:20	1
Nickel	**0.0064**	**J**	0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:20	1
Potassium	**6.2**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:20	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:20	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:20	1
Sodium	**1040**		5.0	1.6	mg/L		02/26/21 09:25	03/03/21 00:14	5
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:20	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:20	1
Zinc	**0.0054**	**J**	0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:20	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**0.98**		0.050	0.025	mg/L			02/25/21 18:15	5

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-9
Lab Sample ID: 480-181451-7
Date Collected: 02/25/21 12:55
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 16:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 16:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 16:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 16:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 16:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 16:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 16:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 16:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 16:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 16:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 16:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 16:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 16:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 16:18	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 16:18	1
Acetone	**3.2**	**J**	10	3.0	ug/L			02/26/21 16:18	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 16:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 16:18	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 16:18	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 16:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 16:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 16:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 16:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 16:18	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 16:18	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 16:18	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 16:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 16:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 16:18	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 16:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 16:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 16:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 16:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 16:18	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 16:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 16:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 16:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 16:18	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 16:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 16:18	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 16:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 16:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 16:18	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 16:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 16:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 16:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 16:18	1

Client Sample ID: TW-9
Lab Sample ID: 480-181451-7

Date Collected: 02/25/21 12:55
Matrix: Water

Date Received: 02/25/21 16:27

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		80 - 120		02/26/21 16:18	1
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		02/26/21 16:18	1
4-Bromofluorobenzene (Surr)	95		73 - 120		02/26/21 16:18	1
Dibromofluoromethane (Surr)	106		75 - 123		02/26/21 16:18	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13.2**		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:24	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:24	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:24	1
Barium	**0.15**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:24	1
Beryllium	**0.00045**	**J**	0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:24	1
Cadmium	**0.010**		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:24	1
Calcium	**50.4**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:24	1
Chromium	**0.026**		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:24	1
Cobalt	**0.0065**		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:24	1
Copper	**0.013**		0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:24	1
Iron	**17.6**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:24	1
Lead	**0.024**		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:24	1
Magnesium	**13.5**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:24	1
Manganese	**0.77**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:24	1
Nickel	**0.027**		0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:24	1
Potassium	**5.4**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:24	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:24	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:24	1
Sodium	**9.5**		1.0	0.32	mg/L		02/26/21 09:25	02/26/21 19:24	1
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:24	1
Vanadium	**0.024**		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:24	1
Zinc	**0.10**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:24	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-14
Lab Sample ID: 480-181451-8
Date Collected: 02/25/21 13:00
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 16:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 16:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 16:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 16:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 16:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 16:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 16:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 16:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 16:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 16:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 16:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 16:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 16:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 16:42	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 16:42	1
Acetone	ND		10	3.0	ug/L			02/26/21 16:42	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 16:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 16:42	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 16:42	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 16:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 16:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 16:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 16:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 16:42	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 16:42	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 16:42	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 16:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 16:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 16:42	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 16:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 16:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 16:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 16:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 16:42	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 16:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 16:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 16:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 16:42	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 16:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 16:42	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 16:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 16:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 16:42	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 16:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 16:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 16:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 16:42	1

Client Sample ID: TW-14
Date Collected: 02/25/21 13:00
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-8
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 16:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		02/26/21 16:42	1
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		02/26/21 16:42	1
4-Bromofluorobenzene (Surr)	94		73 - 120		02/26/21 16:42	1
Dibromofluoromethane (Surr)	104		75 - 123		02/26/21 16:42	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:27	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:27	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:27	1
Barium	**0.40**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:27	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:27	1
Cadmium	**0.00084**	**J**	0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:27	1
Calcium	**195**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:27	1
Chromium	ND		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:27	1
Cobalt	**0.0022**	**J**	0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:27	1
Copper	**0.0017**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:27	1
Iron	**0.064**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:27	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:27	1
Magnesium	**49.8**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:27	1
Manganese	**0.22**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:27	1
Nickel	**0.011**		0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:27	1
Potassium	**4.5**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:27	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:27	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:27	1
Sodium	**929**		5.0	1.6	mg/L		02/26/21 09:25	03/03/21 00:18	5
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:27	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:27	1
Zinc	**0.17**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-5A
Lab Sample ID: 480-181451-9
Date Collected: 02/25/21 14:05
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 17:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 17:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 17:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 17:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 17:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 17:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 17:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 17:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 17:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 17:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 17:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 17:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 17:06	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 17:06	1
Acetone	ND		10	3.0	ug/L			02/26/21 17:06	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 17:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 17:06	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 17:06	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 17:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 17:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 17:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 17:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 17:06	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 17:06	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 17:06	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 17:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 17:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 17:06	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 17:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 17:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 17:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 17:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 17:06	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 17:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 17:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 17:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 17:06	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 17:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 17:06	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 17:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 17:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 17:06	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 17:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 17:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 17:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 17:06	1

Client Sample ID: TW-5A

Date Collected: 02/25/21 14:05
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-9

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		02/26/21 17:06	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		02/26/21 17:06	1
4-Bromofluorobenzene (Surr)	97		73 - 120		02/26/21 17:06	1
Dibromofluoromethane (Surr)	105		75 - 123		02/26/21 17:06	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.57**		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:42	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:42	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:42	1
Barium	**0.30**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:42	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:42	1
Cadmium	ND		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:42	1
Calcium	**84.9**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:42	1
Chromium	**0.0061**		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:42	1
Cobalt	**0.0042**		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:42	1
Copper	**0.0018**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:42	1
Iron	**2.0**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:42	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:42	1
Magnesium	**21.7**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:42	1
Manganese	**2.0**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:42	1
Nickel	**0.0076**	**J**	0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:42	1
Potassium	**3.2**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:42	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:42	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:42	1
Sodium	**482**		1.0	0.32	mg/L		02/26/21 09:25	02/26/21 19:42	1
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:42	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:42	1
Zinc	**0.11**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:42	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-08A
Lab Sample ID: 480-181451-10
Date Collected: 02/25/21 14:25
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 17:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 17:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 17:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 17:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 17:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 17:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 17:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 17:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 17:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 17:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 17:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 17:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 17:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 17:30	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 17:30	1
Acetone	ND		10	3.0	ug/L			02/26/21 17:30	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 17:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 17:30	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 17:30	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 17:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 17:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 17:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 17:30	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 17:30	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 17:30	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 17:30	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 17:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 17:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 17:30	1
Cyclohexane	**0.31**	**J**	1.0	0.18	ug/L			02/26/21 17:30	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 17:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 17:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 17:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 17:30	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 17:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 17:30	1
Methylcyclohexane	**0.38**	**J**	1.0	0.16	ug/L			02/26/21 17:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 17:30	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 17:30	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 17:30	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 17:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 17:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 17:30	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 17:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 17:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 17:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 17:30	1

Client Sample ID: RFI-08A

Date Collected: 02/25/21 14:25
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-10

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		02/26/21 17:30	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		02/26/21 17:30	1
4-Bromofluorobenzene (Surr)	98		73 - 120		02/26/21 17:30	1
Dibromofluoromethane (Surr)	107		75 - 123		02/26/21 17:30	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.29**		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:46	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:46	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:46	1
Barium	**2.3**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:46	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:46	1
Cadmium	ND		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:46	1
Calcium	**247**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:46	1
Chromium	**0.0013**	**J**	0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:46	1
Cobalt	ND		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:46	1
Copper	**0.0024**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:46	1
Iron	**1.3**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:46	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:46	1
Magnesium	**56.4**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:46	1
Manganese	**0.82**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:46	1
Nickel	**0.0020**	**J**	0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:46	1
Potassium	**7.9**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:46	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:46	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:46	1
Sodium	**555**		1.0	0.32	mg/L		02/26/21 09:25	02/26/21 19:46	1
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:46	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:46	1
Zinc	**0.034**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:46	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: MW-6
Lab Sample ID: 480-181451-11
Date Collected: 02/25/21 15:00
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 17:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 17:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 17:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 17:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 17:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 17:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 17:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 17:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 17:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 17:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 17:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 17:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 17:54	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 17:54	1
Acetone	ND		10	3.0	ug/L			02/26/21 17:54	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 17:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 17:54	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 17:54	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 17:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 17:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 17:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 17:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 17:54	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 17:54	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 17:54	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 17:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 17:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 17:54	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 17:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 17:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 17:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 17:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 17:54	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 17:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 17:54	1
Methylcyclohexane	**0.29**	**J**	1.0	0.16	ug/L			02/26/21 17:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 17:54	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 17:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 17:54	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 17:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 17:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 17:54	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 17:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 17:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 17:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 17:54	1

Client Sample ID: MW-6
Date Collected: 02/25/21 15:00
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-11
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		80 - 120		02/26/21 17:54	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		02/26/21 17:54	1
4-Bromofluorobenzene (Surr)	94		73 - 120		02/26/21 17:54	1
Dibromofluoromethane (Surr)	104		75 - 123		02/26/21 17:54	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:50	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:50	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:50	1
Barium	**1.4**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:50	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:50	1
Cadmium	ND		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:50	1
Calcium	**101**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:50	1
Chromium	ND		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:50	1
Cobalt	ND		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:50	1
Copper	ND		0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:50	1
Iron	**0.39**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:50	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:50	1
Magnesium	**36.1**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:50	1
Manganese	**0.049**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:50	1
Nickel	ND		0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:50	1
Potassium	**4.3**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:50	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:50	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:50	1
Sodium	**164**		1.0	0.32	mg/L		02/26/21 09:25	02/26/21 19:50	1
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:50	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:50	1
Zinc	**0.19**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: DUP-001
Lab Sample ID: 480-181451-12
Date Collected: 02/25/21 00:00
Matrix: Water
Date Received: 02/25/21 16:27

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			02/26/21 18:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 18:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 18:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 18:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 18:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 18:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 18:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 18:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 18:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 18:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 18:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 18:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 18:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 18:18	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 18:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 18:18	1
Acetone	ND		10	3.0	ug/L			02/26/21 18:18	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 18:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 18:18	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 18:18	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 18:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 18:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 18:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 18:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 18:18	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 18:18	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 18:18	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 18:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 18:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 18:18	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 18:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 18:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 18:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 18:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 18:18	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 18:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 18:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 18:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 18:18	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 18:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 18:18	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 18:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 18:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 18:18	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 18:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 18:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 18:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 18:18	1

Client Sample ID: DUP-001
Date Collected: 02/25/21 00:00
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-12
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		02/26/21 18:18	1
1,2-Dichloroethane-d4 (Surr)	111		77 - 120		02/26/21 18:18	1
4-Bromofluorobenzene (Surr)	101		73 - 120		02/26/21 18:18	1
Dibromofluoromethane (Surr)	107		75 - 123		02/26/21 18:18	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.34**		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 19:54	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 19:54	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 19:54	1
Barium	**0.26**		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 19:54	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 19:54	1
Cadmium	**0.016**		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 19:54	1
Calcium	**252**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:54	1
Chromium	**0.0044**		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 19:54	1
Cobalt	ND		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 19:54	1
Copper	**0.0044**	**J**	0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 19:54	1
Iron	**0.47**		0.050	0.019	mg/L		02/26/21 09:25	02/26/21 19:54	1
Lead	**0.0069**	**J**	0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 19:54	1
Magnesium	**55.9**		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 19:54	1
Manganese	**0.14**	**B**	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 19:54	1
Nickel	**0.0041**	**J**	0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 19:54	1
Potassium	**14.8**		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 19:54	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 19:54	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 19:54	1
Sodium	**1710**		5.0	1.6	mg/L		02/26/21 09:25	03/03/21 00:22	5
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 19:54	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 19:54	1
Zinc	**0.018**		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 19:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181451-1

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)
480-181451-1	TW-8	95	106	100	105
480-181451-2	TW-6	94	113	102	111
480-181451-2 MS	TW-6	94	113	99	108
480-181451-2 MSD	TW-6	95	109	101	104
480-181451-3	TW-13	96	106	102	105
480-181451-4	TW-12	92	103	99	101
480-181451-5	TW-15	93	103	99	102
480-181451-6	TW-7	95	109	98	103
480-181451-7	TW-9	91	105	95	106
480-181451-8	TW-14	92	110	94	104
480-181451-9	TW-5A	94	108	97	105
480-181451-10	RFI-08A	93	106	98	107
480-181451-11	MW-6	92	108	94	104
480-181451-12	DUP-001	95	111	101	107
LCS 480-570699/5	Lab Control Sample	95	110	99	109
MB 480-570699/8	Method Blank	93	107	97	107

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 480-570699/8
Matrix: Water
Analysis Batch: 570699

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			02/26/21 12:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/26/21 12:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/26/21 12:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/26/21 12:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/26/21 12:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/26/21 12:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/26/21 12:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/26/21 12:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/26/21 12:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/26/21 12:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/26/21 12:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/26/21 12:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/26/21 12:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/26/21 12:06	1
2-Hexanone	ND		5.0	1.2	ug/L			02/26/21 12:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/26/21 12:06	1
Acetone	ND		10	3.0	ug/L			02/26/21 12:06	1
Benzene	ND		1.0	0.41	ug/L			02/26/21 12:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/26/21 12:06	1
Bromoform	ND		1.0	0.26	ug/L			02/26/21 12:06	1
Bromomethane	ND		1.0	0.69	ug/L			02/26/21 12:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/26/21 12:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/26/21 12:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/26/21 12:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/26/21 12:06	1
Chloroethane	ND		1.0	0.32	ug/L			02/26/21 12:06	1
Chloroform	ND		1.0	0.34	ug/L			02/26/21 12:06	1
Chloromethane	ND		1.0	0.35	ug/L			02/26/21 12:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/26/21 12:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/26/21 12:06	1
Cyclohexane	ND		1.0	0.18	ug/L			02/26/21 12:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/26/21 12:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/26/21 12:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/26/21 12:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/26/21 12:06	1
Methyl acetate	ND		2.5	1.3	ug/L			02/26/21 12:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/26/21 12:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/26/21 12:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/26/21 12:06	1
Styrene	ND		1.0	0.73	ug/L			02/26/21 12:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/26/21 12:06	1
Toluene	ND		1.0	0.51	ug/L			02/26/21 12:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/26/21 12:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/26/21 12:06	1
Trichloroethene	ND		1.0	0.46	ug/L			02/26/21 12:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/26/21 12:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/26/21 12:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/26/21 12:06	1

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

Lab Sample ID: MB 480-570699/8
Matrix: Water
Analysis Batch: 570699

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

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/26/21 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		80 - 120		02/26/21 12:06	1
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		02/26/21 12:06	1
4-Bromofluorobenzene (Surr)	97		73 - 120		02/26/21 12:06	1
Dibromofluoromethane (Surr)	107		75 - 123		02/26/21 12:06	1

Lab Sample ID: LCS 480-570699/5
Matrix: Water
Analysis Batch: 570699

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	27.4		ug/L		109	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.5		ug/L		90	76 - 120
1,1,2-Trichloroethane	25.0	22.1		ug/L		88	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.1		ug/L		104	61 - 148
1,1-Dichloroethane	25.0	25.0		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	25.1		ug/L		101	66 - 127
1,2,4-Trichlorobenzene	25.0	24.6		ug/L		98	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	56 - 134
1,2-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	25.2		ug/L		101	75 - 120
1,2-Dichloropropane	25.0	24.2		ug/L		97	76 - 120
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	80 - 120
2-Butanone (MEK)	125	139		ug/L		111	57 - 140
2-Hexanone	125	127		ug/L		101	65 - 127
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	135		ug/L		108	56 - 142
Benzene	25.0	23.1		ug/L		92	71 - 124
Bromodichloromethane	25.0	26.0		ug/L		104	80 - 122
Bromoform	25.0	28.8		ug/L		115	61 - 132
Bromomethane	25.0	21.2		ug/L		85	55 - 144
Carbon disulfide	25.0	24.2		ug/L		97	59 - 134
Carbon tetrachloride	25.0	27.4		ug/L		110	72 - 134
Chlorobenzene	25.0	24.3		ug/L		97	80 - 120
Dibromochloromethane	25.0	27.4		ug/L		110	75 - 125
Chloroethane	25.0	19.0		ug/L		76	69 - 136
Chloroform	25.0	24.2		ug/L		97	73 - 127
Chloromethane	25.0	24.9		ug/L		100	68 - 124
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	24.2		ug/L		97	74 - 124
Cyclohexane	25.0	26.8		ug/L		107	59 - 135
Dichlorodifluoromethane	25.0	26.4		ug/L		106	59 - 135
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
1,2-Dibromoethane	25.0	24.0		ug/L		96	77 - 120

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

Lab Sample ID: LCS 480-570699/5
Matrix: Water
Analysis Batch: 570699

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	22.9		ug/L		92	77 - 122
Methyl acetate	50.0	50.8		ug/L		102	74 - 133
Methyl tert-butyl ether	25.0	24.4		ug/L		98	77 - 120
Methylcyclohexane	25.0	24.8		ug/L		99	68 - 134
Methylene Chloride	25.0	21.8		ug/L		87	75 - 124
Styrene	25.0	23.9		ug/L		96	80 - 120
Tetrachloroethene	25.0	25.5		ug/L		102	74 - 122
Toluene	25.0	26.3		ug/L		105	80 - 122
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	23.5		ug/L		94	80 - 120
Trichloroethene	25.0	24.8		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	26.9		ug/L		108	62 - 150
Vinyl chloride	25.0	23.0		ug/L		92	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*109*		*75 - 123*

Lab Sample ID: 480-181451-2 MS
Matrix: Water
Analysis Batch: 570699

Client Sample ID: TW-6
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	F1	25.0	32.1	F1	ug/L		128	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	24.9		ug/L		100	76 - 120
1,1,2-Trichloroethane	ND		25.0	25.4		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.8		ug/L		115	61 - 148
1,1-Dichloroethane	ND		25.0	29.8		ug/L		119	77 - 120
1,1-Dichloroethene	ND		25.0	29.6		ug/L		118	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	27.0		ug/L		108	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	25.6		ug/L		102	56 - 134
1,2-Dichlorobenzene	ND		25.0	25.8		ug/L		103	80 - 124
1,2-Dichloroethane	ND		25.0	29.5		ug/L		118	75 - 120
1,2-Dichloropropane	ND		25.0	27.1		ug/L		109	76 - 120
1,3-Dichlorobenzene	ND		25.0	26.8		ug/L		107	77 - 120
1,4-Dichlorobenzene	ND		25.0	25.9		ug/L		104	78 - 124
2-Butanone (MEK)	ND		125	160		ug/L		128	57 - 140
2-Hexanone	ND		125	140		ug/L		112	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	138		ug/L		111	71 - 125
Acetone	ND		125	153		ug/L		123	56 - 142
Benzene	ND		25.0	27.5		ug/L		110	71 - 124
Bromodichloromethane	ND		25.0	29.4		ug/L		118	80 - 122
Bromoform	ND		25.0	29.8		ug/L		119	61 - 132
Bromomethane	ND		25.0	26.9		ug/L		108	55 - 144
Carbon disulfide	ND		25.0	26.3		ug/L		105	59 - 134
Carbon tetrachloride	ND		25.0	32.5		ug/L		130	72 - 134

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

Lab Sample ID: 480-181451-2 MS
Matrix: Water
Analysis Batch: 570699

Client Sample ID: TW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	ND		25.0	27.6		ug/L		110	80 - 120
Dibromochloromethane	ND		25.0	29.1		ug/L		116	75 - 125
Chloroethane	ND		25.0	24.1		ug/L		96	69 - 136
Chloroform	ND		25.0	27.9		ug/L		112	73 - 127
Chloromethane	ND		25.0	30.9		ug/L		124	68 - 124
cis-1,2-Dichloroethene	ND		25.0	29.5		ug/L		118	74 - 124
cis-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	74 - 124
Cyclohexane	ND		25.0	29.0		ug/L		116	59 - 135
Dichlorodifluoromethane	ND		25.0	30.2		ug/L		121	59 - 135
Ethylbenzene	ND		25.0	26.1		ug/L		104	77 - 123
1,2-Dibromoethane	ND		25.0	25.9		ug/L		104	77 - 120
Isopropylbenzene	ND		25.0	26.1		ug/L		105	77 - 122
Methyl acetate	ND		50.0	54.6		ug/L		109	74 - 133
Methyl tert-butyl ether	ND		25.0	26.8		ug/L		107	77 - 120
Methylcyclohexane	ND		25.0	26.7		ug/L		107	68 - 134
Methylene Chloride	ND		25.0	25.5		ug/L		102	75 - 124
Styrene	ND		25.0	26.9		ug/L		107	80 - 120
Tetrachloroethene	ND		25.0	29.5		ug/L		118	74 - 122
Toluene	ND		25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	ND		25.0	30.8		ug/L		123	73 - 127
trans-1,3-Dichloropropene	ND		25.0	24.6		ug/L		98	80 - 120
Trichloroethene	ND		25.0	29.3		ug/L		117	74 - 123
Trichlorofluoromethane	ND		25.0	31.4		ug/L		126	62 - 150
Vinyl chloride	ND		25.0	28.8		ug/L		115	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*94*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*113*		*77 - 120*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*
Dibromofluoromethane (Surr)	*108*		*75 - 123*

Lab Sample ID: 480-181451-2 MSD
Matrix: Water
Analysis Batch: 570699

Client Sample ID: TW-6
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	F1	25.0	30.2		ug/L		121	73 - 126	6	15
1,1,2,2-Tetrachloroethane	ND		25.0	25.0		ug/L		100	76 - 120	0	15
1,1,2-Trichloroethane	ND		25.0	23.8		ug/L		95	76 - 122	6	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.9		ug/L		111	61 - 148	3	20
1,1-Dichloroethane	ND		25.0	28.0		ug/L		112	77 - 120	6	20
1,1-Dichloroethene	ND		25.0	29.3		ug/L		117	66 - 127	1	16
1,2,4-Trichlorobenzene	ND		25.0	27.0		ug/L		108	79 - 122	0	20
1,2-Dibromo-3-Chloropropane	ND		25.0	26.1		ug/L		105	56 - 134	2	15
1,2-Dichlorobenzene	ND		25.0	26.4		ug/L		106	80 - 124	2	20
1,2-Dichloroethane	ND		25.0	28.0		ug/L		112	75 - 120	5	20
1,2-Dichloropropane	ND		25.0	26.7		ug/L		107	76 - 120	2	20
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	77 - 120	0	20

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

Lab Sample ID: 480-181451-2 MSD
Matrix: Water
Analysis Batch: 570699

Client Sample ID: TW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		25.0	26.1		ug/L		104	78 - 124	1	20
2-Butanone (MEK)	ND		125	152		ug/L		121	57 - 140	5	20
2-Hexanone	ND		125	139		ug/L		111	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		125	134		ug/L		107	71 - 125	3	35
Acetone	ND		125	147		ug/L		117	56 - 142	4	15
Benzene	ND		25.0	26.2		ug/L		105	71 - 124	5	13
Bromodichloromethane	ND		25.0	29.0		ug/L		116	80 - 122	1	15
Bromoform	ND		25.0	29.9		ug/L		120	61 - 132	0	15
Bromomethane	ND		25.0	26.3		ug/L		105	55 - 144	2	15
Carbon disulfide	ND		25.0	25.9		ug/L		104	59 - 134	1	15
Carbon tetrachloride	ND		25.0	31.0		ug/L		124	72 - 134	5	15
Chlorobenzene	ND		25.0	26.3		ug/L		105	80 - 120	5	25
Dibromochloromethane	ND		25.0	28.7		ug/L		115	75 - 125	1	15
Chloroethane	ND		25.0	23.5		ug/L		94	69 - 136	2	15
Chloroform	ND		25.0	26.5		ug/L		106	73 - 127	5	20
Chloromethane	ND		25.0	30.4		ug/L		122	68 - 124	2	15
cis-1,2-Dichloroethene	ND		25.0	27.5		ug/L		110	74 - 124	7	15
cis-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	74 - 124	2	15
Cyclohexane	ND		25.0	27.9		ug/L		112	59 - 135	4	20
Dichlorodifluoromethane	ND		25.0	29.4		ug/L		118	59 - 135	3	20
Ethylbenzene	ND		25.0	25.5		ug/L		102	77 - 123	2	15
1,2-Dibromoethane	ND		25.0	26.6		ug/L		106	77 - 120	3	15
Isopropylbenzene	ND		25.0	26.7		ug/L		107	77 - 122	2	20
Methyl acetate	ND		50.0	53.0		ug/L		106	74 - 133	3	20
Methyl tert-butyl ether	ND		25.0	25.7		ug/L		103	77 - 120	4	37
Methylcyclohexane	ND		25.0	24.7		ug/L		99	68 - 134	8	20
Methylene Chloride	ND		25.0	24.2		ug/L		97	75 - 124	6	15
Styrene	ND		25.0	26.2		ug/L		105	80 - 120	2	20
Tetrachloroethene	ND		25.0	28.4		ug/L		114	74 - 122	4	20
Toluene	ND		25.0	24.7		ug/L		99	80 - 122	2	15
trans-1,2-Dichloroethene	ND		25.0	27.6		ug/L		110	73 - 127	11	20
trans-1,3-Dichloropropene	ND		25.0	24.0		ug/L		96	80 - 120	3	15
Trichloroethene	ND		25.0	27.8		ug/L		111	74 - 123	6	16
Trichlorofluoromethane	ND		25.0	31.3		ug/L		125	62 - 150	0	20
Vinyl chloride	ND		25.0	27.7		ug/L		111	65 - 133	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-570672/1-A
Matrix: Water
Analysis Batch: 570873

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		02/26/21 09:25	02/26/21 17:48	1
Antimony	ND		0.020	0.0068	mg/L		02/26/21 09:25	02/26/21 17:48	1
Arsenic	ND		0.015	0.0056	mg/L		02/26/21 09:25	02/26/21 17:48	1
Barium	ND		0.0020	0.00070	mg/L		02/26/21 09:25	02/26/21 17:48	1
Beryllium	ND		0.0020	0.00030	mg/L		02/26/21 09:25	02/26/21 17:48	1
Cadmium	ND		0.0020	0.00050	mg/L		02/26/21 09:25	02/26/21 17:48	1
Calcium	ND		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 17:48	1
Chromium	ND		0.0040	0.0010	mg/L		02/26/21 09:25	02/26/21 17:48	1
Cobalt	ND		0.0040	0.00063	mg/L		02/26/21 09:25	02/26/21 17:48	1
Copper	ND		0.010	0.0016	mg/L		02/26/21 09:25	02/26/21 17:48	1
Iron	ND	^+	0.050	0.019	mg/L		02/26/21 09:25	02/26/21 17:48	1
Lead	ND		0.010	0.0030	mg/L		02/26/21 09:25	02/26/21 17:48	1
Magnesium	ND		0.20	0.043	mg/L		02/26/21 09:25	02/26/21 17:48	1
Manganese	0.00166	J	0.0030	0.00040	mg/L		02/26/21 09:25	02/26/21 17:48	1
Nickel	ND		0.010	0.0013	mg/L		02/26/21 09:25	02/26/21 17:48	1
Potassium	ND		0.50	0.10	mg/L		02/26/21 09:25	02/26/21 17:48	1
Selenium	ND		0.025	0.0087	mg/L		02/26/21 09:25	02/26/21 17:48	1
Silver	ND		0.0060	0.0017	mg/L		02/26/21 09:25	02/26/21 17:48	1
Sodium	ND		1.0	0.32	mg/L		02/26/21 09:25	02/26/21 17:48	1
Thallium	ND		0.020	0.010	mg/L		02/26/21 09:25	02/26/21 17:48	1
Vanadium	ND		0.0050	0.0015	mg/L		02/26/21 09:25	02/26/21 17:48	1
Zinc	ND		0.010	0.0015	mg/L		02/26/21 09:25	02/26/21 17:48	1

Lab Sample ID: LCS 480-570672/2-A
Matrix: Water
Analysis Batch: 570873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.10		mg/L		101	80 - 120
Antimony	0.200	0.206		mg/L		103	80 - 120
Arsenic	0.200	0.211		mg/L		106	80 - 120
Barium	0.200	0.221		mg/L		110	80 - 120
Beryllium	0.200	0.215		mg/L		108	80 - 120
Cadmium	0.200	0.207		mg/L		104	80 - 120
Calcium	10.0	10.41		mg/L		104	80 - 120
Chromium	0.200	0.204		mg/L		102	80 - 120
Cobalt	0.200	0.198		mg/L		99	80 - 120
Copper	0.200	0.210		mg/L		105	80 - 120
Iron	10.0	10.18	^+	mg/L		102	80 - 120
Lead	0.200	0.203		mg/L		102	80 - 120
Magnesium	10.0	10.13		mg/L		101	80 - 120
Manganese	0.200	0.212		mg/L		106	80 - 120
Nickel	0.200	0.199		mg/L		100	80 - 120
Potassium	10.0	9.98		mg/L		100	80 - 120
Selenium	0.200	0.209		mg/L		105	80 - 120
Silver	0.0500	0.0513		mg/L		103	80 - 120
Sodium	10.0	9.90		mg/L		99	80 - 120
Thallium	0.200	0.207		mg/L		103	80 - 120
Vanadium	0.200	0.205		mg/L		103	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-570672/2-A
Matrix: Water
Analysis Batch: 570873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.204		mg/L		102	80 - 120

Lab Sample ID: 480-181451-2 MS
Matrix: Water
Analysis Batch: 570873

Client Sample ID: TW-6
Prep Type: Total/NA
Prep Batch: 570672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.29		10.0	10.68		mg/L		104	75 - 125
Antimony	ND		0.200	0.218		mg/L		109	75 - 125
Arsenic	ND		0.200	0.231		mg/L		115	75 - 125
Barium	0.26		0.200	0.455		mg/L		99	75 - 125
Beryllium	ND		0.200	0.215		mg/L		107	75 - 125
Cadmium	0.015		0.200	0.233		mg/L		109	75 - 125
Calcium	253		10.0	269.1	4	mg/L		160	75 - 125
Chromium	0.0040		0.200	0.212		mg/L		104	75 - 125
Cobalt	ND		0.200	0.213		mg/L		107	75 - 125
Copper	0.0040	J	0.200	0.223		mg/L		109	75 - 125
Lead	0.0054	J	0.200	0.221		mg/L		108	75 - 125
Magnesium	56.6		10.0	68.90	4	mg/L		123	75 - 125
Manganese	0.14	B	0.200	0.352		mg/L		107	75 - 125
Nickel	0.0044	J	0.200	0.216		mg/L		106	75 - 125
Potassium	14.3	F1	10.0	26.22		mg/L		119	75 - 125
Selenium	ND		0.200	0.221		mg/L		111	75 - 125
Silver	ND		0.0500	0.0555		mg/L		111	75 - 125
Thallium	ND		0.200	0.207		mg/L		104	75 - 125
Vanadium	ND		0.200	0.214		mg/L		107	75 - 125
Zinc	0.017		0.200	0.226		mg/L		105	75 - 125

Lab Sample ID: 480-181451-2 MS
Matrix: Water
Analysis Batch: 571152

Client Sample ID: TW-6
Prep Type: Total/NA
Prep Batch: 570672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.37		10.0	9.26		mg/L		89	75 - 125

Lab Sample ID: 480-181451-2 MS
Matrix: Water
Analysis Batch: 571152

Client Sample ID: TW-6
Prep Type: Total/NA
Prep Batch: 570672

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sodium	1670		10.0	1636	4	mg/L		-337	75 - 125

Lab Sample ID: 480-181451-2 MSD
Matrix: Water
Analysis Batch: 570873

Client Sample ID: TW-6
Prep Type: Total/NA
Prep Batch: 570672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.29		10.0	10.72		mg/L		104	75 - 125	0	20
Antimony	ND		0.200	0.218		mg/L		109	75 - 125	0	20
Arsenic	ND		0.200	0.231		mg/L		116	75 - 125	0	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-181451-2 MSD
Matrix: Water
Analysis Batch: 570873

Client Sample ID: TW-6
Prep Type: Total/NA
Prep Batch: 570672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	0.26		0.200	0.468		mg/L		106	75 - 125	3	20
Beryllium	ND		0.200	0.216		mg/L		108	75 - 125	0	20
Cadmium	0.015		0.200	0.236		mg/L		111	75 - 125	1	20
Calcium	253		10.0	265.0	4	mg/L		119	75 - 125	2	20
Chromium	0.0040		0.200	0.215		mg/L		105	75 - 125	1	20
Cobalt	ND		0.200	0.214		mg/L		107	75 - 125	0	20
Copper	0.0040	J	0.200	0.224		mg/L		110	75 - 125	1	20
Lead	0.0054	J	0.200	0.223		mg/L		109	75 - 125	1	20
Magnesium	56.6		10.0	66.44	4	mg/L		99	75 - 125	4	20
Manganese	0.14	B	0.200	0.349		mg/L		105	75 - 125	1	20
Nickel	0.0044	J	0.200	0.218		mg/L		107	75 - 125	1	20
Potassium	14.3	F1	10.0	26.98	F1	mg/L		127	75 - 125	3	20
Selenium	ND		0.200	0.221		mg/L		110	75 - 125	0	20
Silver	ND		0.0500	0.0553		mg/L		111	75 - 125	0	20
Thallium	ND		0.200	0.207		mg/L		104	75 - 125	0	20
Vanadium	ND		0.200	0.215		mg/L		108	75 - 125	1	20
Zinc	0.017		0.200	0.230		mg/L		106	75 - 125	1	20

Lab Sample ID: 480-181451-2 MSD
Matrix: Water
Analysis Batch: 571152

Client Sample ID: TW-6
Prep Type: Total/NA
Prep Batch: 570672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.37		10.0	9.28		mg/L		89	75 - 125	0	20

Lab Sample ID: 480-181451-2 MSD
Matrix: Water
Analysis Batch: 571152

Client Sample ID: TW-6
Prep Type: Total/NA
Prep Batch: 570672

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sodium	1670		10.0	1675	4	mg/L		57	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-570912/1-A
Matrix: Water
Analysis Batch: 570953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 16:27	1

Lab Sample ID: LCS 480-570912/2-A
Matrix: Water
Analysis Batch: 570953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570912

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00687		mg/L		103	80 - 120		

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 480-570913/1-A
Matrix: Water
Analysis Batch: 570953

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 570913

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/01/21 13:07	03/01/21 17:03	1

Lab Sample ID: LCS 480-570913/2-A
Matrix: Water
Analysis Batch: 570953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 570913

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00708		mg/L		106	80 - 120		

Lab Sample ID: 480-181451-2 MS
Matrix: Water
Analysis Batch: 570953

Client Sample ID: TW-6
Prep Type: Total/NA
Prep Batch: 570913

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00667	0.00622		mg/L		93	80 - 120		

Lab Sample ID: 480-181451-2 MSD
Matrix: Water
Analysis Batch: 570953

Client Sample ID: TW-6
Prep Type: Total/NA
Prep Batch: 570913

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00622		mg/L		93	80 - 120	0	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 480-570657/3
Matrix: Water
Analysis Batch: 570657

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		0.010	0.0050	mg/L			02/25/21 18:15	1

Lab Sample ID: LCS 480-570657/4
Matrix: Water
Analysis Batch: 570657

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent			0.0500	0.0486		mg/L		97	85 - 115		

Lab Sample ID: 480-181451-2 MS
Matrix: Water
Analysis Batch: 570657

Client Sample ID: TW-6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent	ND		0.0500	0.0498		mg/L		100	85 - 115		

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 480-181451-2 MSD
Client Sample ID: TW-6
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 570657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		0.0500	0.0474		mg/L		95	85 - 115	5	20

Lab Sample ID: 480-181451-12 MS
Client Sample ID: DUP-001
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 570657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chromium, hexavalent	ND		0.0500	0.0424		mg/L		85	85 - 115		

Lab Sample ID: 480-181451-11 DU
Client Sample ID: MW-6
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 570657

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chromium, hexavalent	ND			ND		mg/L				NC	20

GC/MS VOA

Analysis Batch: 570699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181451-1	TW-8	Total/NA	Water	8260C	
480-181451-2	TW-6	Total/NA	Water	8260C	
480-181451-3	TW-13	Total/NA	Water	8260C	
480-181451-4	TW-12	Total/NA	Water	8260C	
480-181451-5	TW-15	Total/NA	Water	8260C	
480-181451-6	TW-7	Total/NA	Water	8260C	
480-181451-7	TW-9	Total/NA	Water	8260C	
480-181451-8	TW-14	Total/NA	Water	8260C	
480-181451-9	TW-5A	Total/NA	Water	8260C	
480-181451-10	RFI-08A	Total/NA	Water	8260C	
480-181451-11	MW-6	Total/NA	Water	8260C	
480-181451-12	DUP-001	Total/NA	Water	8260C	
MB 480-570699/8	Method Blank	Total/NA	Water	8260C	
LCS 480-570699/5	Lab Control Sample	Total/NA	Water	8260C	
480-181451-2 MS	TW-6	Total/NA	Water	8260C	
480-181451-2 MSD	TW-6	Total/NA	Water	8260C	

Metals

Prep Batch: 570672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181451-1	TW-8	Total/NA	Water	3005A	
480-181451-2	TW-6	Total/NA	Water	3005A	
480-181451-3	TW-13	Total/NA	Water	3005A	
480-181451-4	TW-12	Total/NA	Water	3005A	
480-181451-5	TW-15	Total/NA	Water	3005A	
480-181451-6	TW-7	Total/NA	Water	3005A	
480-181451-7	TW-9	Total/NA	Water	3005A	
480-181451-8	TW-14	Total/NA	Water	3005A	
480-181451-9	TW-5A	Total/NA	Water	3005A	
480-181451-10	RFI-08A	Total/NA	Water	3005A	
480-181451-11	MW-6	Total/NA	Water	3005A	
480-181451-12	DUP-001	Total/NA	Water	3005A	
MB 480-570672/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-570672/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-181451-2 MS	TW-6	Total/NA	Water	3005A	
480-181451-2 MSD	TW-6	Total/NA	Water	3005A	

Analysis Batch: 570873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181451-1	TW-8	Total/NA	Water	6010C	570672
480-181451-2	TW-6	Total/NA	Water	6010C	570672
480-181451-3	TW-13	Total/NA	Water	6010C	570672
480-181451-4	TW-12	Total/NA	Water	6010C	570672
480-181451-5	TW-15	Total/NA	Water	6010C	570672
480-181451-6	TW-7	Total/NA	Water	6010C	570672
480-181451-7	TW-9	Total/NA	Water	6010C	570672
480-181451-8	TW-14	Total/NA	Water	6010C	570672
480-181451-9	TW-5A	Total/NA	Water	6010C	570672
480-181451-10	RFI-08A	Total/NA	Water	6010C	570672
480-181451-11	MW-6	Total/NA	Water	6010C	570672

Metals (Continued)

Analysis Batch: 570873 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181451-12	DUP-001	Total/NA	Water	6010C	570672
MB 480-570672/1-A	Method Blank	Total/NA	Water	6010C	570672
LCS 480-570672/2-A	Lab Control Sample	Total/NA	Water	6010C	570672
480-181451-2 MS	TW-6	Total/NA	Water	6010C	570672
480-181451-2 MSD	TW-6	Total/NA	Water	6010C	570672

Prep Batch: 570912

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181451-1	TW-8	Total/NA	Water	7470A	
MB 480-570912/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-570912/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 570913

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181451-2	TW-6	Total/NA	Water	7470A	
480-181451-3	TW-13	Total/NA	Water	7470A	
480-181451-4	TW-12	Total/NA	Water	7470A	
480-181451-5	TW-15	Total/NA	Water	7470A	
480-181451-6	TW-7	Total/NA	Water	7470A	
480-181451-7	TW-9	Total/NA	Water	7470A	
480-181451-8	TW-14	Total/NA	Water	7470A	
480-181451-9	TW-5A	Total/NA	Water	7470A	
480-181451-10	RFI-08A	Total/NA	Water	7470A	
480-181451-11	MW-6	Total/NA	Water	7470A	
480-181451-12	DUP-001	Total/NA	Water	7470A	
MB 480-570913/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-570913/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-181451-2 MS	TW-6	Total/NA	Water	7470A	
480-181451-2 MSD	TW-6	Total/NA	Water	7470A	

Analysis Batch: 570953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181451-1	TW-8	Total/NA	Water	7470A	570912
480-181451-2	TW-6	Total/NA	Water	7470A	570913
480-181451-3	TW-13	Total/NA	Water	7470A	570913
480-181451-4	TW-12	Total/NA	Water	7470A	570913
480-181451-5	TW-15	Total/NA	Water	7470A	570913
480-181451-6	TW-7	Total/NA	Water	7470A	570913
480-181451-7	TW-9	Total/NA	Water	7470A	570913
480-181451-8	TW-14	Total/NA	Water	7470A	570913
480-181451-9	TW-5A	Total/NA	Water	7470A	570913
480-181451-10	RFI-08A	Total/NA	Water	7470A	570913
480-181451-11	MW-6	Total/NA	Water	7470A	570913
480-181451-12	DUP-001	Total/NA	Water	7470A	570913
MB 480-570912/1-A	Method Blank	Total/NA	Water	7470A	570912
MB 480-570913/1-A	Method Blank	Total/NA	Water	7470A	570913
LCS 480-570912/2-A	Lab Control Sample	Total/NA	Water	7470A	570912
LCS 480-570913/2-A	Lab Control Sample	Total/NA	Water	7470A	570913
480-181451-2 MS	TW-6	Total/NA	Water	7470A	570913
480-181451-2 MSD	TW-6	Total/NA	Water	7470A	570913

QC Association Summary

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Metals

Analysis Batch: 571152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181451-1	TW-8	Total/NA	Water	6010C	570672
480-181451-2	TW-6	Total/NA	Water	6010C	570672
480-181451-2	TW-6	Total/NA	Water	6010C	570672
480-181451-5	TW-15	Total/NA	Water	6010C	570672
480-181451-6	TW-7	Total/NA	Water	6010C	570672
480-181451-8	TW-14	Total/NA	Water	6010C	570672
480-181451-12	DUP-001	Total/NA	Water	6010C	570672
480-181451-2 MS	TW-6	Total/NA	Water	6010C	570672
480-181451-2 MS	TW-6	Total/NA	Water	6010C	570672
480-181451-2 MSD	TW-6	Total/NA	Water	6010C	570672
480-181451-2 MSD	TW-6	Total/NA	Water	6010C	570672

General Chemistry

Analysis Batch: 570657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181451-1	TW-8	Total/NA	Water	7196A	
480-181451-2	TW-6	Total/NA	Water	7196A	
480-181451-3	TW-13	Total/NA	Water	7196A	
480-181451-4	TW-12	Total/NA	Water	7196A	
480-181451-5	TW-15	Total/NA	Water	7196A	
480-181451-6	TW-7	Total/NA	Water	7196A	
480-181451-7	TW-9	Total/NA	Water	7196A	
480-181451-8	TW-14	Total/NA	Water	7196A	
480-181451-9	TW-5A	Total/NA	Water	7196A	
480-181451-10	RFI-08A	Total/NA	Water	7196A	
480-181451-11	MW-6	Total/NA	Water	7196A	
480-181451-12	DUP-001	Total/NA	Water	7196A	
MB 480-570657/3	Method Blank	Total/NA	Water	7196A	
LCS 480-570657/4	Lab Control Sample	Total/NA	Water	7196A	
480-181451-2 MS	TW-6	Total/NA	Water	7196A	
480-181451-2 MSD	TW-6	Total/NA	Water	7196A	
480-181451-12 MS	DUP-001	Total/NA	Water	7196A	
480-181451-11 DU	MW-6	Total/NA	Water	7196A	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181451-1

Client Sample ID: TW-8
Date Collected: 02/25/21 09:20
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 13:53	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 18:34	LMH	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571152	03/02/21 23:07	LMH	TAL BUF
Total/NA	Prep	7470A			570912	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:02	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Client Sample ID: TW-6
Date Collected: 02/25/21 10:30
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 14:17	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 18:38	LMH	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	571152	03/02/21 23:11	LMH	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		5	571152	03/02/21 23:41	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:20	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Client Sample ID: TW-13
Date Collected: 02/25/21 11:45
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 14:41	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:08	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:25	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Client Sample ID: TW-12
Date Collected: 02/25/21 10:30
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 15:05	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:12	LMH	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181451-1

Client Sample ID: TW-12

Lab Sample ID: 480-181451-4
Matrix: Water
Date Collected: 02/25/21 10:30
Date Received: 02/25/21 16:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:29	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Client Sample ID: TW-15

Lab Sample ID: 480-181451-5
Matrix: Water
Date Collected: 02/25/21 09:15
Date Received: 02/25/21 16:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 15:29	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:16	LMH	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		5	571152	03/03/21 00:00	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:31	BMB	TAL BUF
Total/NA	Analysis	7196A		25	570657	02/25/21 18:15	SRW	TAL BUF

Client Sample ID: TW-7

Lab Sample ID: 480-181451-6
Matrix: Water
Date Collected: 02/25/21 12:10
Date Received: 02/25/21 16:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 15:54	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:20	LMH	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		5	571152	03/03/21 00:14	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:32	BMB	TAL BUF
Total/NA	Analysis	7196A		5	570657	02/25/21 18:15	SRW	TAL BUF

Client Sample ID: TW-9

Lab Sample ID: 480-181451-7
Matrix: Water
Date Collected: 02/25/21 12:55
Date Received: 02/25/21 16:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 16:18	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:24	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:33	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: TW-14
Lab Sample ID: 480-181451-8
Date Collected: 02/25/21 13:00
Matrix: Water
Date Received: 02/25/21 16:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 16:42	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:27	LMH	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		5	571152	03/03/21 00:18	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:35	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Client Sample ID: TW-5A
Lab Sample ID: 480-181451-9
Date Collected: 02/25/21 14:05
Matrix: Water
Date Received: 02/25/21 16:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 17:06	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:42	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:36	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Client Sample ID: RFI-08A
Lab Sample ID: 480-181451-10
Date Collected: 02/25/21 14:25
Matrix: Water
Date Received: 02/25/21 16:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 17:30	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:46	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:37	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Client Sample ID: MW-6
Lab Sample ID: 480-181451-11
Date Collected: 02/25/21 15:00
Matrix: Water
Date Received: 02/25/21 16:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 17:54	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:50	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:38	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181451-1

Client Sample ID: DUP-001

Date Collected: 02/25/21 00:00
Date Received: 02/25/21 16:27

Lab Sample ID: 480-181451-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570699	02/26/21 18:18	CRL	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		1	570873	02/26/21 19:54	LMH	TAL BUF
Total/NA	Prep	3005A			570672	02/26/21 09:25	ADM	TAL BUF
Total/NA	Analysis	6010C		5	571152	03/03/21 00:22	LMH	TAL BUF
Total/NA	Prep	7470A			570913	03/01/21 13:07	BMB	TAL BUF
Total/NA	Analysis	7470A		1	570953	03/01/21 17:40	BMB	TAL BUF
Total/NA	Analysis	7196A		1	570657	02/25/21 18:15	SRW	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-181451-1
Project/Site: Al Tech Specialty Steel #907022

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

Method Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181451-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
7196A	Chromium, Hexavalent	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	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 = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181451-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181451-1	TW-8	Water	02/25/21 09:20	02/25/21 16:27	
480-181451-2	TW-6	Water	02/25/21 10:30	02/25/21 16:27	
480-181451-3	TW-13	Water	02/25/21 11:45	02/25/21 16:27	
480-181451-4	TW-12	Water	02/25/21 10:30	02/25/21 16:27	
480-181451-5	TW-15	Water	02/25/21 09:15	02/25/21 16:27	
480-181451-6	TW-7	Water	02/25/21 12:10	02/25/21 16:27	
480-181451-7	TW-9	Water	02/25/21 12:55	02/25/21 16:27	
480-181451-8	TW-14	Water	02/25/21 13:00	02/25/21 16:27	
480-181451-9	TW-5A	Water	02/25/21 14:05	02/25/21 16:27	
480-181451-10	RFI-08A	Water	02/25/21 14:25	02/25/21 16:27	
480-181451-11	MW-6	Water	02/25/21 15:00	02/25/21 16:27	
480-181451-12	DUP-001	Water	02/25/21 00:00	02/25/21 16:27	

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Page 1 of 2

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Client Information	Sampler: Peter Zaffram	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-156660-34187.4
Client Contact: Damianos Skaros	Phone: 716 553-5129	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 4 of 4
Company: New York State D.E.C.	PWSID:	Analysis Requested		Job #:
Address: 270 Michigan Avenue	Due Date Requested:			Preservation Codes:
City: Buffalo	TAT Requested (days): Standard			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: NY, 14203	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID: 137005			
Email: dtskaros@gw.dec.state.ny.us	WO #: -2901688			
Project Name: Altech Specialty Steel #907022	Project #: 48020089			
Site: Altech Specialty Steel	SSOW#:			

480-181451 Chain of Custody

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 - (MOD) TCL list OLM04.2 + TICs	6010C, 7470A	7196A - Chromium, hexavalent	Total Number	Special Instructions/Note:
				Preservation Code:			A	D	N		
TW-8	2/25/21	0920	G	Water			X	X	X		
TW-6	2/25/21	1030	G	Water			X	X	X		MS/MSD
TW-13	2/25/21	1145	G	Water			X	X	X		
TW-12	2/25/21	1030	G	Water			X	X	X		
TW-15	2/25/21	0915	G	Water			X	X	X		
TW-7	2/25/21	1210	G	Water			X	X	X		
TW-9	2/25/21	1255	G	Water			X	X	X		
TW-14	2/25/21	1300	G	Water			X	X	X		
TW-5A	2/25/21	1405	G	Water			X	X	X		
RFI-08A	2/25/21	1425	G	Water			X	X	X		
MW-6	2/25/21	1500	G	Water			X	X	X		

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: [signature]	Date/Time: 2/25/21 1627	Company: GES	Received by: [signature]	Date/Time: 2/25/21 1627	Company: TA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
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: 2.7 #1 ICE		

Ver: 11/01/2020

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

Chain of Custody Record

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Client Information	Sampler: Peter Zafferam	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-156660-34187.3
Client Contact: Damianos Skaros	Phone: 716-553-5729	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 3 of 4
Company: New York State D.E.C.	PWSID:			Job #:
Address: 270 Michigan Avenue	Due Date Requested:			
City: Buffalo	TAT Requested (days): Standard.			
State, Zip: NY, 14203	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID: 137005			
Email: dtskaros@gw.dec.state.ny.us	WO #: 0901688			
Project Name: Altech Specialty Steel #907022	Project #: 48020089			
Site: Altech Specialty Steel	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 - (MOD) TCL list OLM04.2 + TICs	6010C, 7470A	7196A - Chromium, hexavalent											Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N												
DUP-001	2/25/21	-	G	Water			X	X	X												
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				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
		2/25/21 1627	GES	PGL		
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	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:

Ver: 11/01/2020

3/8/2021

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-181451-1

Login Number: 181451 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Stopa, Erik 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	GES
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	

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ANALYTICAL REPORT

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

Laboratory Job ID: 480-181501-1
Client Project/Site: Al Tech Specialty Steel #907022

For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Mr. Joshua Vaccaro

Authorized for release by:
3/10/2021 1:54:03 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com

Designee for

Orlette Johnson, Senior Project Manager
(484)685-0864
Orlette.Johnson@Eurofinset.com

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Wyatt Watson
Project Management Assistant I
3/10/2021 1:54:03 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181501-1

Job ID: 480-181501-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-181501-1

Comments
No additional comments.

Receipt
The samples were received on 2/26/2021 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-570811 recovered above the upper control limit for Cyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: RFI-35 (480-181501-1), RFI-36 (480-181501-2), RFI-18 (480-181501-3), RFI-27 (480-181501-4), MW-7 (480-181501-5), RFF-31 (480-181501-6), RFF-05A (480-181501-7), RFI-26 (480-181501-8) and LAE-4 (480-181501-10).

Method 8260C: The continuing calibration verification (CCV) analyzed in 480-570811 was outside the method criteria for the following analyte(s): Cyclohexane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-7 (480-181501-5). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: RFF-31 (480-181501-6), RFI-26 (480-181501-8), LAE-4 (480-181501-10), (480-181501-B-10 MS) and (480-181501-B-10 MSD). Elevated reporting limits (RLs) are provided.

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

Metals
Method 6010C: The continuing calibration blank (CCB 480-571485/29) contained Total Sodium above the reporting limit (RL). All reported samples RFI-36 (480-181501-2), RFI-18 (480-181501-3), RFI-27 (480-181501-4), MW-7 (480-181501-5), RFF-31 (480-181501-6), RFF-05A (480-181501-7), RFI-26 (480-181501-8), RFI-34 (480-181501-9) and LAE-4 (480-181501-10) associated with this CCB were either ND for this analyte or contained this analyte at a concentration greater than 10X the value found in the CCB; therefore, re-analysis of samples was not performed.

Method 6010C: The Serial Dilution (480-181501-A-1-A SD ^5) in batch 480-571631, exhibited results outside the quality control limits for Total Potassium. However, the Post Digestion Spike was compliant so no corrective action was necessary.

Method 6010C: The recovery of Post Spike, (480-181501-A-1-A PDS), in batch 480-571631 exhibited results outside the quality control limits for Total Sodium. However, the Serial Dilution of this sample was compliant. Therefore, no corrective action was necessary.

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

Detection Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181501-1

Client Sample ID: RFI-35 — Lab Sample ID: 480-181501-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.75		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.46		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	116		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0023	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	1.5		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	31.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	4.4	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0048	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.8	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	57.7		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0087	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-36 — Lab Sample ID: 480-181501-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.091		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	55.2		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.073		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	18.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.036	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.3	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	345		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0086	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-18 — Lab Sample ID: 480-181501-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.10		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00053	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	181		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.59		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	78.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.25	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	5.2	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	242		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0037	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-27 — Lab Sample ID: 480-181501-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.10	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.032		0.0020	0.00070	mg/L	1		6010C	Total/NA
Cadmium	0.00059	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	135		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0034	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.17		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	35.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.85	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0044	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.1	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	33.6		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0038	J	0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181501-1

Client Sample ID: MW-7 — Lab Sample ID: 480-181501-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.42		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.075		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.00030	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Calcium	142		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0080		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0011	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.014		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.66		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.033		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	21.9		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.18	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.010		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.4	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	30.2		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.026		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFF-31 — Lab Sample ID: 480-181501-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	420		40	32	ug/L	40		8260C	Total/NA
trans-1,2-Dichloroethene	79		40	36	ug/L	40		8260C	Total/NA
Trichloroethene	1100		40	18	ug/L	40		8260C	Total/NA
Aluminum	0.18	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.060		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.00040	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Calcium	206		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0021	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	13.0		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.0039	J	0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	61.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.18	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0043	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.2	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	399		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0049	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFF-05A — Lab Sample ID: 480-181501-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.093		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	158		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.038	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	38.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.055	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	1.1	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	17.0		1.0	0.32	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-26 — Lab Sample ID: 480-181501-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2200		40	32	ug/L	40		8260C	Total/NA
Trichloroethene	1600		40	18	ug/L	40		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: RFI-26 (Continued) — Lab Sample ID: 480-181501-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.024		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.00030	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Cadmium	0.00050	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	149		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.39		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	81.6		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.056	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	4.2	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	45.7		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0022	J	0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: RFI-34 — Lab Sample ID: 480-181501-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	85		1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.5		1.0	0.81	ug/L	1		8260C	Total/NA
Cyclohexane	20		1.0	0.18	ug/L	1		8260C	Total/NA
Ethylbenzene	1.6		1.0	0.74	ug/L	1		8260C	Total/NA
Isopropylbenzene	2.3		1.0	0.79	ug/L	1		8260C	Total/NA
Methylcyclohexane	9.8		1.0	0.16	ug/L	1		8260C	Total/NA
Toluene	1.3		1.0	0.51	ug/L	1		8260C	Total/NA
Xylenes, Total	10		2.0	0.66	ug/L	1		8260C	Total/NA
Aluminum	12.1		0.20	0.060	mg/L	1		6010C	Total/NA
Arsenic	0.028		0.015	0.0056	mg/L	1		6010C	Total/NA
Barium	0.22		0.0020	0.00070	mg/L	1		6010C	Total/NA
Beryllium	0.00080	J	0.0020	0.00030	mg/L	1		6010C	Total/NA
Cadmium	0.00069	J	0.0020	0.00050	mg/L	1		6010C	Total/NA
Calcium	32.9		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.057		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0078		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.021		0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	15.2		0.050	0.019	mg/L	1		6010C	Total/NA
Lead	0.064		0.010	0.0030	mg/L	1		6010C	Total/NA
Magnesium	14.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.18	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.049		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	7.5	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	263		1.0	0.32	mg/L	1		6010C	Total/NA
Vanadium	0.036		0.0050	0.0015	mg/L	1		6010C	Total/NA
Zinc	0.13		0.010	0.0015	mg/L	1		6010C	Total/NA

Client Sample ID: LAE-4 — Lab Sample ID: 480-181501-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		100	81	ug/L	100		8260C	Total/NA
Trichloroethene	5400	F1	100	46	ug/L	100		8260C	Total/NA
Barium	0.10		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	115		0.50	0.10	mg/L	1		6010C	Total/NA
Cobalt	0.0036	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Iron	0.22		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	25.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	1.5	B	0.0030	0.00040	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LAE-4 (Continued)

Lab Sample ID: 480-181501-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	0.0061	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	0.70	B	0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	15.3		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0024	J	0.010	0.0015	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-35
Lab Sample ID: 480-181501-1
Date Collected: 02/25/21 16:25
Matrix: Water
Date Received: 02/26/21 16:20

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			02/28/21 14:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/28/21 14:44	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/28/21 14:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/28/21 14:44	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/28/21 14:44	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/28/21 14:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/28/21 14:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/28/21 14:44	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/28/21 14:44	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/28/21 14:44	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/28/21 14:44	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/28/21 14:44	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/28/21 14:44	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/28/21 14:44	1
2-Hexanone	ND		5.0	1.2	ug/L			02/28/21 14:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/28/21 14:44	1
Acetone	ND		10	3.0	ug/L			02/28/21 14:44	1
Benzene	ND		1.0	0.41	ug/L			02/28/21 14:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/28/21 14:44	1
Bromoform	ND		1.0	0.26	ug/L			02/28/21 14:44	1
Bromomethane	ND		1.0	0.69	ug/L			02/28/21 14:44	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/28/21 14:44	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/28/21 14:44	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/28/21 14:44	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/28/21 14:44	1
Chloroethane	ND		1.0	0.32	ug/L			02/28/21 14:44	1
Chloroform	ND		1.0	0.34	ug/L			02/28/21 14:44	1
Chloromethane	ND		1.0	0.35	ug/L			02/28/21 14:44	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/28/21 14:44	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/28/21 14:44	1
Cyclohexane	ND		1.0	0.18	ug/L			02/28/21 14:44	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/28/21 14:44	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/21 14:44	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/28/21 14:44	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/28/21 14:44	1
Methyl acetate	ND		2.5	1.3	ug/L			02/28/21 14:44	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/28/21 14:44	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/28/21 14:44	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/28/21 14:44	1
Styrene	ND		1.0	0.73	ug/L			02/28/21 14:44	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/28/21 14:44	1
Toluene	ND		1.0	0.51	ug/L			02/28/21 14:44	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/28/21 14:44	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/28/21 14:44	1
Trichloroethene	ND		1.0	0.46	ug/L			02/28/21 14:44	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/28/21 14:44	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/28/21 14:44	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/21 14:44	1

Client Sample ID: RFI-35

Date Collected: 02/25/21 16:25
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-1

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/21 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		02/28/21 14:44	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		02/28/21 14:44	1
4-Bromofluorobenzene (Surr)	109		73 - 120		02/28/21 14:44	1
Dibromofluoromethane (Surr)	106		75 - 123		02/28/21 14:44	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.75**		0.20	0.060	mg/L		03/03/21 10:45	03/04/21 04:58	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 04:58	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 04:58	1
Barium	**0.46**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 04:58	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 04:58	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 04:58	1
Calcium	**116**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 04:58	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 04:58	1
Cobalt	**0.0023**	**J**	0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 04:58	1
Copper	ND		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 04:58	1
Iron	**1.5**		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 04:58	1
Lead	ND		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 04:58	1
Magnesium	**31.5**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 04:58	1
Manganese	**4.4**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 04:58	1
Nickel	**0.0048**	**J**	0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 04:58	1
Potassium	**2.8**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/05/21 18:50	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 04:58	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 04:58	1
Sodium	**57.7**		1.0	0.32	mg/L		03/03/21 10:45	03/05/21 18:50	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 04:58	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 04:58	1
Zinc	**0.0087**	**J**	0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 04:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 16:32	1

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-36
Lab Sample ID: 480-181501-2
Date Collected: 02/25/21 15:40
Matrix: Water
Date Received: 02/26/21 16:20

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			02/28/21 15:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/28/21 15:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/28/21 15:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/28/21 15:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/28/21 15:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/28/21 15:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/28/21 15:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/28/21 15:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/28/21 15:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/28/21 15:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/28/21 15:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/28/21 15:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/28/21 15:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/28/21 15:08	1
2-Hexanone	ND		5.0	1.2	ug/L			02/28/21 15:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/28/21 15:08	1
Acetone	ND		10	3.0	ug/L			02/28/21 15:08	1
Benzene	ND		1.0	0.41	ug/L			02/28/21 15:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/28/21 15:08	1
Bromoform	ND		1.0	0.26	ug/L			02/28/21 15:08	1
Bromomethane	ND		1.0	0.69	ug/L			02/28/21 15:08	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/28/21 15:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/28/21 15:08	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/28/21 15:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/28/21 15:08	1
Chloroethane	ND		1.0	0.32	ug/L			02/28/21 15:08	1
Chloroform	ND		1.0	0.34	ug/L			02/28/21 15:08	1
Chloromethane	ND		1.0	0.35	ug/L			02/28/21 15:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/28/21 15:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/28/21 15:08	1
Cyclohexane	ND		1.0	0.18	ug/L			02/28/21 15:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/28/21 15:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/21 15:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/28/21 15:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/28/21 15:08	1
Methyl acetate	ND		2.5	1.3	ug/L			02/28/21 15:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/28/21 15:08	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/28/21 15:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/28/21 15:08	1
Styrene	ND		1.0	0.73	ug/L			02/28/21 15:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/28/21 15:08	1
Toluene	ND		1.0	0.51	ug/L			02/28/21 15:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/28/21 15:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/28/21 15:08	1
Trichloroethene	ND		1.0	0.46	ug/L			02/28/21 15:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/28/21 15:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/28/21 15:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/21 15:08	1

Client Sample ID: RFI-36

Date Collected: 02/25/21 15:40
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-2

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/21 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		02/28/21 15:08	1
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		02/28/21 15:08	1
4-Bromofluorobenzene (Surr)	108		73 - 120		02/28/21 15:08	1
Dibromofluoromethane (Surr)	108		75 - 123		02/28/21 15:08	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/21 10:45	03/04/21 05:28	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 05:28	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 05:28	1
Barium	**0.091**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 05:28	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 05:28	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 05:28	1
Calcium	**55.2**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 05:28	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 05:28	1
Cobalt	ND		0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 05:28	1
Copper	ND		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 05:28	1
Iron	**0.073**		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 05:28	1
Lead	ND		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 05:28	1
Magnesium	**18.4**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 05:28	1
Manganese	**0.036**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 05:28	1
Nickel	ND		0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 05:28	1
Potassium	**5.3**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/04/21 15:33	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 05:28	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 05:28	1
Sodium	**345**		1.0	0.32	mg/L		03/03/21 10:45	03/04/21 15:33	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 05:28	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 05:28	1
Zinc	**0.0086**	**J**	0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 05:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 16:33	1

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-18
Lab Sample ID: 480-181501-3
Date Collected: 02/25/21 09:30
Matrix: Water
Date Received: 02/26/21 16:20

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			02/28/21 15:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/28/21 15:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/28/21 15:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/28/21 15:33	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/28/21 15:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/28/21 15:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/28/21 15:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/28/21 15:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/28/21 15:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/28/21 15:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/28/21 15:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/28/21 15:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/28/21 15:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/28/21 15:33	1
2-Hexanone	ND		5.0	1.2	ug/L			02/28/21 15:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/28/21 15:33	1
Acetone	ND		10	3.0	ug/L			02/28/21 15:33	1
Benzene	ND		1.0	0.41	ug/L			02/28/21 15:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/28/21 15:33	1
Bromoform	ND		1.0	0.26	ug/L			02/28/21 15:33	1
Bromomethane	ND		1.0	0.69	ug/L			02/28/21 15:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/28/21 15:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/28/21 15:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/28/21 15:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/28/21 15:33	1
Chloroethane	ND		1.0	0.32	ug/L			02/28/21 15:33	1
Chloroform	ND		1.0	0.34	ug/L			02/28/21 15:33	1
Chloromethane	ND		1.0	0.35	ug/L			02/28/21 15:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/28/21 15:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/28/21 15:33	1
Cyclohexane	ND		1.0	0.18	ug/L			02/28/21 15:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/28/21 15:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/21 15:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/28/21 15:33	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/28/21 15:33	1
Methyl acetate	ND		2.5	1.3	ug/L			02/28/21 15:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/28/21 15:33	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/28/21 15:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/28/21 15:33	1
Styrene	ND		1.0	0.73	ug/L			02/28/21 15:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/28/21 15:33	1
Toluene	ND		1.0	0.51	ug/L			02/28/21 15:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/28/21 15:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/28/21 15:33	1
Trichloroethene	ND		1.0	0.46	ug/L			02/28/21 15:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/28/21 15:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/28/21 15:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/21 15:33	1

Client Sample ID: RFI-18

Date Collected: 02/25/21 09:30
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-3

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/21 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		02/28/21 15:33	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		02/28/21 15:33	1
4-Bromofluorobenzene (Surr)	103		73 - 120		02/28/21 15:33	1
Dibromofluoromethane (Surr)	110		75 - 123		02/28/21 15:33	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/21 10:45	03/04/21 05:32	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 05:32	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 05:32	1
Barium	**0.10**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 05:32	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 05:32	1
Cadmium	**0.00053**	**J**	0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 05:32	1
Calcium	**181**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 05:32	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 05:32	1
Cobalt	ND		0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 05:32	1
Copper	ND		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 05:32	1
Iron	**0.59**		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 05:32	1
Lead	ND		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 05:32	1
Magnesium	**78.9**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 05:32	1
Manganese	**0.25**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 05:32	1
Nickel	ND		0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 05:32	1
Potassium	**5.2**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/04/21 15:37	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 05:32	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 05:32	1
Sodium	**242**		1.0	0.32	mg/L		03/03/21 10:45	03/04/21 15:37	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 05:32	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 05:32	1
Zinc	**0.0037**	**J**	0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 05:32	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 16:34	1

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-27
Lab Sample ID: 480-181501-4
Date Collected: 02/25/21 10:30
Matrix: Water
Date Received: 02/26/21 16:20

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			02/28/21 15:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/28/21 15:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/28/21 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/28/21 15:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/28/21 15:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/28/21 15:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/28/21 15:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/28/21 15:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/28/21 15:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/28/21 15:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/28/21 15:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/28/21 15:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/28/21 15:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/28/21 15:56	1
2-Hexanone	ND		5.0	1.2	ug/L			02/28/21 15:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/28/21 15:56	1
Acetone	ND		10	3.0	ug/L			02/28/21 15:56	1
Benzene	ND		1.0	0.41	ug/L			02/28/21 15:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/28/21 15:56	1
Bromoform	ND		1.0	0.26	ug/L			02/28/21 15:56	1
Bromomethane	ND		1.0	0.69	ug/L			02/28/21 15:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/28/21 15:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/28/21 15:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/28/21 15:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/28/21 15:56	1
Chloroethane	ND		1.0	0.32	ug/L			02/28/21 15:56	1
Chloroform	ND		1.0	0.34	ug/L			02/28/21 15:56	1
Chloromethane	ND		1.0	0.35	ug/L			02/28/21 15:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/28/21 15:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/28/21 15:56	1
Cyclohexane	ND		1.0	0.18	ug/L			02/28/21 15:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/28/21 15:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/21 15:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/28/21 15:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/28/21 15:56	1
Methyl acetate	ND		2.5	1.3	ug/L			02/28/21 15:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/28/21 15:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/28/21 15:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/28/21 15:56	1
Styrene	ND		1.0	0.73	ug/L			02/28/21 15:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/28/21 15:56	1
Toluene	ND		1.0	0.51	ug/L			02/28/21 15:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/28/21 15:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/28/21 15:56	1
Trichloroethene	ND		1.0	0.46	ug/L			02/28/21 15:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/28/21 15:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/28/21 15:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/21 15:56	1

Client Sample ID: RFI-27
Date Collected: 02/25/21 10:30
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-4
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/21 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		02/28/21 15:56	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		02/28/21 15:56	1
4-Bromofluorobenzene (Surr)	105		73 - 120		02/28/21 15:56	1
Dibromofluoromethane (Surr)	106		75 - 123		02/28/21 15:56	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.10**	**J**	0.20	0.060	mg/L		03/03/21 10:45	03/04/21 05:35	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 05:35	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 05:35	1
Barium	**0.032**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 05:35	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 05:35	1
Cadmium	**0.00059**	**J**	0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 05:35	1
Calcium	**135**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 05:35	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 05:35	1
Cobalt	**0.0034**	**J**	0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 05:35	1
Copper	ND		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 05:35	1
Iron	**0.17**		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 05:35	1
Lead	ND		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 05:35	1
Magnesium	**35.7**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 05:35	1
Manganese	**0.85**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 05:35	1
Nickel	**0.0044**	**J**	0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 05:35	1
Potassium	**2.1**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/04/21 15:53	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 05:35	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 05:35	1
Sodium	**33.6**		1.0	0.32	mg/L		03/03/21 10:45	03/04/21 15:53	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 05:35	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 05:35	1
Zinc	**0.0038**	**J**	0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 05:35	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 16:35	1

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: MW-7
Lab Sample ID: 480-181501-5
Date Collected: 02/25/21 11:20
Matrix: Water
Date Received: 02/26/21 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			02/28/21 16:20	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			02/28/21 16:20	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			02/28/21 16:20	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			02/28/21 16:20	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			02/28/21 16:20	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			02/28/21 16:20	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			02/28/21 16:20	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			02/28/21 16:20	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			02/28/21 16:20	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			02/28/21 16:20	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			02/28/21 16:20	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			02/28/21 16:20	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			02/28/21 16:20	4
2-Butanone (MEK)	ND		40	5.3	ug/L			02/28/21 16:20	4
2-Hexanone	ND		20	5.0	ug/L			02/28/21 16:20	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			02/28/21 16:20	4
Acetone	ND		40	12	ug/L			02/28/21 16:20	4
Benzene	ND		4.0	1.6	ug/L			02/28/21 16:20	4
Bromodichloromethane	ND		4.0	1.6	ug/L			02/28/21 16:20	4
Bromoform	ND		4.0	1.0	ug/L			02/28/21 16:20	4
Bromomethane	ND		4.0	2.8	ug/L			02/28/21 16:20	4
Carbon disulfide	ND		4.0	0.76	ug/L			02/28/21 16:20	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			02/28/21 16:20	4
Chlorobenzene	ND		4.0	3.0	ug/L			02/28/21 16:20	4
Dibromochloromethane	ND		4.0	1.3	ug/L			02/28/21 16:20	4
Chloroethane	ND		4.0	1.3	ug/L			02/28/21 16:20	4
Chloroform	ND		4.0	1.4	ug/L			02/28/21 16:20	4
Chloromethane	ND		4.0	1.4	ug/L			02/28/21 16:20	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			02/28/21 16:20	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			02/28/21 16:20	4
Cyclohexane	ND		4.0	0.72	ug/L			02/28/21 16:20	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			02/28/21 16:20	4
Ethylbenzene	ND		4.0	3.0	ug/L			02/28/21 16:20	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			02/28/21 16:20	4
Isopropylbenzene	ND		4.0	3.2	ug/L			02/28/21 16:20	4
Methyl acetate	ND		10	5.2	ug/L			02/28/21 16:20	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			02/28/21 16:20	4
Methylcyclohexane	ND		4.0	0.64	ug/L			02/28/21 16:20	4
Methylene Chloride	ND		4.0	1.8	ug/L			02/28/21 16:20	4
Styrene	ND		4.0	2.9	ug/L			02/28/21 16:20	4
Tetrachloroethene	ND		4.0	1.4	ug/L			02/28/21 16:20	4
Toluene	ND		4.0	2.0	ug/L			02/28/21 16:20	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			02/28/21 16:20	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			02/28/21 16:20	4
Trichloroethene	ND		4.0	1.8	ug/L			02/28/21 16:20	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			02/28/21 16:20	4
Vinyl chloride	ND		4.0	3.6	ug/L			02/28/21 16:20	4
Xylenes, Total	ND		8.0	2.6	ug/L			02/28/21 16:20	4

Client Sample ID: MW-7

Date Collected: 02/25/21 11:20
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-5

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/21 16:20	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		02/28/21 16:20	4
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		02/28/21 16:20	4
4-Bromofluorobenzene (Surr)	109		73 - 120		02/28/21 16:20	4
Dibromofluoromethane (Surr)	111		75 - 123		02/28/21 16:20	4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.42**		0.20	0.060	mg/L		03/03/21 10:45	03/04/21 05:39	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 05:39	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 05:39	1
Barium	**0.075**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 05:39	1
Beryllium	**0.00030**	**J**	0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 05:39	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 05:39	1
Calcium	**142**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 05:39	1
Chromium	**0.0080**		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 05:39	1
Cobalt	**0.0011**	**J**	0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 05:39	1
Copper	**0.014**		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 05:39	1
Iron	**0.66**		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 05:39	1
Lead	**0.033**		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 05:39	1
Magnesium	**21.9**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 05:39	1
Manganese	**0.18**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 05:39	1
Nickel	**0.010**		0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 05:39	1
Potassium	**7.4**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/04/21 15:56	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 05:39	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 05:39	1
Sodium	**30.2**		1.0	0.32	mg/L		03/03/21 10:45	03/04/21 15:56	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 05:39	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 05:39	1
Zinc	**0.026**		0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 05:39	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 16:37	1

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFF-31
Lab Sample ID: 480-181501-6
Date Collected: 02/25/21 10:00
Matrix: Water
Date Received: 02/26/21 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			02/28/21 16:44	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			02/28/21 16:44	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			02/28/21 16:44	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			02/28/21 16:44	40
1,1-Dichloroethane	ND		40	15	ug/L			02/28/21 16:44	40
1,1-Dichloroethene	ND		40	12	ug/L			02/28/21 16:44	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			02/28/21 16:44	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			02/28/21 16:44	40
1,2-Dichlorobenzene	ND		40	32	ug/L			02/28/21 16:44	40
1,2-Dichloroethane	ND		40	8.4	ug/L			02/28/21 16:44	40
1,2-Dichloropropane	ND		40	29	ug/L			02/28/21 16:44	40
1,3-Dichlorobenzene	ND		40	31	ug/L			02/28/21 16:44	40
1,4-Dichlorobenzene	ND		40	34	ug/L			02/28/21 16:44	40
2-Butanone (MEK)	ND		400	53	ug/L			02/28/21 16:44	40
2-Hexanone	ND		200	50	ug/L			02/28/21 16:44	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			02/28/21 16:44	40
Acetone	ND		400	120	ug/L			02/28/21 16:44	40
Benzene	ND		40	16	ug/L			02/28/21 16:44	40
Bromodichloromethane	ND		40	16	ug/L			02/28/21 16:44	40
Bromoform	ND		40	10	ug/L			02/28/21 16:44	40
Bromomethane	ND		40	28	ug/L			02/28/21 16:44	40
Carbon disulfide	ND		40	7.6	ug/L			02/28/21 16:44	40
Carbon tetrachloride	ND		40	11	ug/L			02/28/21 16:44	40
Chlorobenzene	ND		40	30	ug/L			02/28/21 16:44	40
Dibromochloromethane	ND		40	13	ug/L			02/28/21 16:44	40
Chloroethane	ND		40	13	ug/L			02/28/21 16:44	40
Chloroform	ND		40	14	ug/L			02/28/21 16:44	40
Chloromethane	ND		40	14	ug/L			02/28/21 16:44	40
cis-1,2-Dichloroethene	**420**		40	32	ug/L			02/28/21 16:44	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			02/28/21 16:44	40
Cyclohexane	ND		40	7.2	ug/L			02/28/21 16:44	40
Dichlorodifluoromethane	ND		40	27	ug/L			02/28/21 16:44	40
Ethylbenzene	ND		40	30	ug/L			02/28/21 16:44	40
1,2-Dibromoethane	ND		40	29	ug/L			02/28/21 16:44	40
Isopropylbenzene	ND		40	32	ug/L			02/28/21 16:44	40
Methyl acetate	ND		100	52	ug/L			02/28/21 16:44	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			02/28/21 16:44	40
Methylcyclohexane	ND		40	6.4	ug/L			02/28/21 16:44	40
Methylene Chloride	ND		40	18	ug/L			02/28/21 16:44	40
Styrene	ND		40	29	ug/L			02/28/21 16:44	40
Tetrachloroethene	ND		40	14	ug/L			02/28/21 16:44	40
Toluene	ND		40	20	ug/L			02/28/21 16:44	40
trans-1,2-Dichloroethene	**79**		40	36	ug/L			02/28/21 16:44	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			02/28/21 16:44	40
Trichloroethene	**1100**		40	18	ug/L			02/28/21 16:44	40
Trichlorofluoromethane	ND		40	35	ug/L			02/28/21 16:44	40
Vinyl chloride	ND		40	36	ug/L			02/28/21 16:44	40
Xylenes, Total	ND		80	26	ug/L			02/28/21 16:44	40

Client Sample ID: RFF-31
Date Collected: 02/25/21 10:00
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-6
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/21 16:44	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		02/28/21 16:44	40
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		02/28/21 16:44	40
4-Bromofluorobenzene (Surr)	108		73 - 120		02/28/21 16:44	40
Dibromofluoromethane (Surr)	115		75 - 123		02/28/21 16:44	40

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.18**	**J**	0.20	0.060	mg/L		03/03/21 10:45	03/04/21 05:43	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 05:43	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 05:43	1
Barium	**0.060**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 05:43	1
Beryllium	**0.00040**	**J**	0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 05:43	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 05:43	1
Calcium	**206**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 05:43	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 05:43	1
Cobalt	**0.0021**	**J**	0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 05:43	1
Copper	ND		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 05:43	1
Iron	**13.0**		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 05:43	1
Lead	**0.0039**	**J**	0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 05:43	1
Magnesium	**61.3**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 05:43	1
Manganese	**0.18**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 05:43	1
Nickel	**0.0043**	**J**	0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 05:43	1
Potassium	**2.2**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/04/21 16:00	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 05:43	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 05:43	1
Sodium	**399**		1.0	0.32	mg/L		03/03/21 10:45	03/04/21 16:00	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 05:43	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 05:43	1
Zinc	**0.0049**	**J**	0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 05:43	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 16:38	1

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFF-05A
Lab Sample ID: 480-181501-7
Date Collected: 02/25/21 10:40
Matrix: Water
Date Received: 02/26/21 16:20

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			02/28/21 17:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/28/21 17:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/28/21 17:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/28/21 17:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/28/21 17:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/28/21 17:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/28/21 17:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/28/21 17:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/28/21 17:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/28/21 17:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/28/21 17:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/28/21 17:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/28/21 17:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/28/21 17:09	1
2-Hexanone	ND		5.0	1.2	ug/L			02/28/21 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/28/21 17:09	1
Acetone	ND		10	3.0	ug/L			02/28/21 17:09	1
Benzene	ND		1.0	0.41	ug/L			02/28/21 17:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/28/21 17:09	1
Bromoform	ND		1.0	0.26	ug/L			02/28/21 17:09	1
Bromomethane	ND		1.0	0.69	ug/L			02/28/21 17:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/28/21 17:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/28/21 17:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/28/21 17:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/28/21 17:09	1
Chloroethane	ND		1.0	0.32	ug/L			02/28/21 17:09	1
Chloroform	ND		1.0	0.34	ug/L			02/28/21 17:09	1
Chloromethane	ND		1.0	0.35	ug/L			02/28/21 17:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/28/21 17:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/28/21 17:09	1
Cyclohexane	ND		1.0	0.18	ug/L			02/28/21 17:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/28/21 17:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/21 17:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/28/21 17:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/28/21 17:09	1
Methyl acetate	ND		2.5	1.3	ug/L			02/28/21 17:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/28/21 17:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/28/21 17:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/28/21 17:09	1
Styrene	ND		1.0	0.73	ug/L			02/28/21 17:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/28/21 17:09	1
Toluene	ND		1.0	0.51	ug/L			02/28/21 17:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/28/21 17:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/28/21 17:09	1
Trichloroethene	ND		1.0	0.46	ug/L			02/28/21 17:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/28/21 17:09	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/28/21 17:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/21 17:09	1

Client Sample ID: RFF-05A

Date Collected: 02/25/21 10:40
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-7

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/21 17:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		02/28/21 17:09	1
1,2-Dichloroethane-d4 (Surr)	108		77 - 120		02/28/21 17:09	1
4-Bromofluorobenzene (Surr)	109		73 - 120		02/28/21 17:09	1
Dibromofluoromethane (Surr)	107		75 - 123		02/28/21 17:09	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/21 10:45	03/04/21 05:47	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 05:47	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 05:47	1
Barium	**0.093**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 05:47	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 05:47	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 05:47	1
Calcium	**158**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 05:47	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 05:47	1
Cobalt	ND		0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 05:47	1
Copper	ND		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 05:47	1
Iron	**0.038**	**J**	0.050	0.019	mg/L		03/03/21 10:45	03/04/21 05:47	1
Lead	ND		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 05:47	1
Magnesium	**38.2**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 05:47	1
Manganese	**0.055**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 05:47	1
Nickel	ND		0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 05:47	1
Potassium	**1.1**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/04/21 16:04	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 05:47	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 05:47	1
Sodium	**17.0**		1.0	0.32	mg/L		03/03/21 10:45	03/04/21 16:04	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 05:47	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 05:47	1
Zinc	ND		0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 05:47	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 17:11	1

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-26
Lab Sample ID: 480-181501-8
Date Collected: 02/25/21 11:30
Matrix: Water
Date Received: 02/26/21 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			02/28/21 17:33	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			02/28/21 17:33	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			02/28/21 17:33	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			02/28/21 17:33	40
1,1-Dichloroethane	ND		40	15	ug/L			02/28/21 17:33	40
1,1-Dichloroethene	ND		40	12	ug/L			02/28/21 17:33	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			02/28/21 17:33	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			02/28/21 17:33	40
1,2-Dichlorobenzene	ND		40	32	ug/L			02/28/21 17:33	40
1,2-Dichloroethane	ND		40	8.4	ug/L			02/28/21 17:33	40
1,2-Dichloropropane	ND		40	29	ug/L			02/28/21 17:33	40
1,3-Dichlorobenzene	ND		40	31	ug/L			02/28/21 17:33	40
1,4-Dichlorobenzene	ND		40	34	ug/L			02/28/21 17:33	40
2-Butanone (MEK)	ND		400	53	ug/L			02/28/21 17:33	40
2-Hexanone	ND		200	50	ug/L			02/28/21 17:33	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			02/28/21 17:33	40
Acetone	ND		400	120	ug/L			02/28/21 17:33	40
Benzene	ND		40	16	ug/L			02/28/21 17:33	40
Bromodichloromethane	ND		40	16	ug/L			02/28/21 17:33	40
Bromoform	ND		40	10	ug/L			02/28/21 17:33	40
Bromomethane	ND		40	28	ug/L			02/28/21 17:33	40
Carbon disulfide	ND		40	7.6	ug/L			02/28/21 17:33	40
Carbon tetrachloride	ND		40	11	ug/L			02/28/21 17:33	40
Chlorobenzene	ND		40	30	ug/L			02/28/21 17:33	40
Dibromochloromethane	ND		40	13	ug/L			02/28/21 17:33	40
Chloroethane	ND		40	13	ug/L			02/28/21 17:33	40
Chloroform	ND		40	14	ug/L			02/28/21 17:33	40
Chloromethane	ND		40	14	ug/L			02/28/21 17:33	40
cis-1,2-Dichloroethene	**2200**		40	32	ug/L			02/28/21 17:33	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			02/28/21 17:33	40
Cyclohexane	ND		40	7.2	ug/L			02/28/21 17:33	40
Dichlorodifluoromethane	ND		40	27	ug/L			02/28/21 17:33	40
Ethylbenzene	ND		40	30	ug/L			02/28/21 17:33	40
1,2-Dibromoethane	ND		40	29	ug/L			02/28/21 17:33	40
Isopropylbenzene	ND		40	32	ug/L			02/28/21 17:33	40
Methyl acetate	ND		100	52	ug/L			02/28/21 17:33	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			02/28/21 17:33	40
Methylcyclohexane	ND		40	6.4	ug/L			02/28/21 17:33	40
Methylene Chloride	ND		40	18	ug/L			02/28/21 17:33	40
Styrene	ND		40	29	ug/L			02/28/21 17:33	40
Tetrachloroethene	ND		40	14	ug/L			02/28/21 17:33	40
Toluene	ND		40	20	ug/L			02/28/21 17:33	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			02/28/21 17:33	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			02/28/21 17:33	40
Trichloroethene	**1600**		40	18	ug/L			02/28/21 17:33	40
Trichlorofluoromethane	ND		40	35	ug/L			02/28/21 17:33	40
Vinyl chloride	ND		40	36	ug/L			02/28/21 17:33	40
Xylenes, Total	ND		80	26	ug/L			02/28/21 17:33	40

Client Sample ID: RFI-26
Date Collected: 02/25/21 11:30
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-8
Matrix: Water

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*02/28/21 17:33*	*40*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*02/28/21 17:33*	*40*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*02/28/21 17:33*	*40*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*02/28/21 17:33*	*40*
Dibromofluoromethane (Surr)	*107*		*75 - 123*		*02/28/21 17:33*	*40*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/21 10:45	03/04/21 05:50	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 05:50	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 05:50	1
Barium	**0.024**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 05:50	1
Beryllium	**0.00030**	**J**	0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 05:50	1
Cadmium	**0.00050**	**J**	0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 05:50	1
Calcium	**149**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 05:50	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 05:50	1
Cobalt	ND		0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 05:50	1
Copper	ND		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 05:50	1
Iron	**0.39**		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 05:50	1
Lead	ND		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 05:50	1
Magnesium	**81.6**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 05:50	1
Manganese	**0.056**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 05:50	1
Nickel	ND		0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 05:50	1
Potassium	**4.2**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/04/21 16:08	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 05:50	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 05:50	1
Sodium	**45.7**		1.0	0.32	mg/L		03/03/21 10:45	03/04/21 16:08	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 05:50	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 05:50	1
Zinc	**0.0022**	**J**	0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 05:50	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 17:15	1

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-34
Lab Sample ID: 480-181501-9
Date Collected: 02/25/21 12:00
Matrix: Water
Date Received: 02/26/21 16:20

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			02/28/21 17:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/28/21 17:57	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/28/21 17:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/28/21 17:57	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/28/21 17:57	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/28/21 17:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/28/21 17:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/28/21 17:57	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/28/21 17:57	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/28/21 17:57	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/28/21 17:57	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/28/21 17:57	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/28/21 17:57	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/28/21 17:57	1
2-Hexanone	ND		5.0	1.2	ug/L			02/28/21 17:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/28/21 17:57	1
Acetone	ND		10	3.0	ug/L			02/28/21 17:57	1
Benzene	**85**		1.0	0.41	ug/L			02/28/21 17:57	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/28/21 17:57	1
Bromoform	ND		1.0	0.26	ug/L			02/28/21 17:57	1
Bromomethane	ND		1.0	0.69	ug/L			02/28/21 17:57	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/28/21 17:57	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/28/21 17:57	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/28/21 17:57	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/28/21 17:57	1
Chloroethane	ND		1.0	0.32	ug/L			02/28/21 17:57	1
Chloroform	ND		1.0	0.34	ug/L			02/28/21 17:57	1
Chloromethane	ND		1.0	0.35	ug/L			02/28/21 17:57	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.81	ug/L			02/28/21 17:57	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/28/21 17:57	1
Cyclohexane	**20**		1.0	0.18	ug/L			02/28/21 17:57	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/28/21 17:57	1
Ethylbenzene	**1.6**		1.0	0.74	ug/L			02/28/21 17:57	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/28/21 17:57	1
Isopropylbenzene	**2.3**		1.0	0.79	ug/L			02/28/21 17:57	1
Methyl acetate	ND		2.5	1.3	ug/L			02/28/21 17:57	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/28/21 17:57	1
Methylcyclohexane	**9.8**		1.0	0.16	ug/L			02/28/21 17:57	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/28/21 17:57	1
Styrene	ND		1.0	0.73	ug/L			02/28/21 17:57	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/28/21 17:57	1
Toluene	**1.3**		1.0	0.51	ug/L			02/28/21 17:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/28/21 17:57	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/28/21 17:57	1
Trichloroethene	ND		1.0	0.46	ug/L			02/28/21 17:57	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/28/21 17:57	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/28/21 17:57	1
Xylenes, Total	**10**		2.0	0.66	ug/L			02/28/21 17:57	1

Client Sample ID: RFI-34

Date Collected: 02/25/21 12:00
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-9

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Unknown	160	T J	ug/L		1.58			02/28/21 17:57	1
Butane, 2-methyl-	24	T J N	ug/L		2.04	78-78-4		02/28/21 17:57	1
Pentane	51	T J N	ug/L		2.29	109-66-0		02/28/21 17:57	1
Pentane, 2-methyl-	13	T J N	ug/L		3.22	107-83-5		02/28/21 17:57	1
Cyclopentane	21	T J N	ug/L		3.29	287-92-3		02/28/21 17:57	1
Unknown	15	T J	ug/L		3.46			02/28/21 17:57	1
Cyclopentane, methyl-	25	T J N	ug/L		4.32	96-37-7		02/28/21 17:57	1
Benzene, 1,3,5-trimethyl-	7.5	T J N	ug/L		10.60	108-67-8		02/28/21 17:57	1
Benzene, 1,2,4,5-tetramethyl-	8.5	T J N	ug/L		12.36	95-93-2		02/28/21 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		02/28/21 17:57	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		02/28/21 17:57	1
4-Bromofluorobenzene (Surr)	111		73 - 120		02/28/21 17:57	1
Dibromofluoromethane (Surr)	101		75 - 123		02/28/21 17:57	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**12.1**		0.20	0.060	mg/L		03/03/21 10:45	03/04/21 05:54	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 05:54	1
Arsenic	**0.028**		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 05:54	1
Barium	**0.22**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 05:54	1
Beryllium	**0.00080**	**J**	0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 05:54	1
Cadmium	**0.00069**	**J**	0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 05:54	1
Calcium	**32.9**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 05:54	1
Chromium	**0.057**		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 05:54	1
Cobalt	**0.0078**		0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 05:54	1
Copper	**0.021**		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 05:54	1
Iron	**15.2**		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 05:54	1
Lead	**0.064**		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 05:54	1
Magnesium	**14.1**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 05:54	1
Manganese	**0.18**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 05:54	1
Nickel	**0.049**		0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 05:54	1
Potassium	**7.5**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/04/21 16:12	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 05:54	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 05:54	1
Sodium	**263**		1.0	0.32	mg/L		03/03/21 10:45	03/04/21 16:12	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 05:54	1
Vanadium	**0.036**		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 05:54	1
Zinc	**0.13**		0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 05:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 17:16	1

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: LAE-4
Lab Sample ID: 480-181501-10
Date Collected: 02/25/21 13:40
Matrix: Water
Date Received: 02/26/21 16:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			02/28/21 18:21	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			02/28/21 18:21	100
1,1,2-Trichloroethane	ND		100	23	ug/L			02/28/21 18:21	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			02/28/21 18:21	100
1,1-Dichloroethane	ND		100	38	ug/L			02/28/21 18:21	100
1,1-Dichloroethene	ND	F1	100	29	ug/L			02/28/21 18:21	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			02/28/21 18:21	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			02/28/21 18:21	100
1,2-Dichlorobenzene	ND		100	79	ug/L			02/28/21 18:21	100
1,2-Dichloroethane	ND		100	21	ug/L			02/28/21 18:21	100
1,2-Dichloropropane	ND		100	72	ug/L			02/28/21 18:21	100
1,3-Dichlorobenzene	ND		100	78	ug/L			02/28/21 18:21	100
1,4-Dichlorobenzene	ND		100	84	ug/L			02/28/21 18:21	100
2-Butanone (MEK)	ND		1000	130	ug/L			02/28/21 18:21	100
2-Hexanone	ND		500	120	ug/L			02/28/21 18:21	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			02/28/21 18:21	100
Acetone	ND		1000	300	ug/L			02/28/21 18:21	100
Benzene	ND		100	41	ug/L			02/28/21 18:21	100
Bromodichloromethane	ND		100	39	ug/L			02/28/21 18:21	100
Bromoform	ND		100	26	ug/L			02/28/21 18:21	100
Bromomethane	ND	F2	100	69	ug/L			02/28/21 18:21	100
Carbon disulfide	ND		100	19	ug/L			02/28/21 18:21	100
Carbon tetrachloride	ND	F1	100	27	ug/L			02/28/21 18:21	100
Chlorobenzene	ND		100	75	ug/L			02/28/21 18:21	100
Dibromochloromethane	ND		100	32	ug/L			02/28/21 18:21	100
Chloroethane	ND		100	32	ug/L			02/28/21 18:21	100
Chloroform	ND		100	34	ug/L			02/28/21 18:21	100
Chloromethane	ND		100	35	ug/L			02/28/21 18:21	100
cis-1,2-Dichloroethene	**1100**		100	81	ug/L			02/28/21 18:21	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			02/28/21 18:21	100
Cyclohexane	ND	F1	100	18	ug/L			02/28/21 18:21	100
Dichlorodifluoromethane	ND	F1	100	68	ug/L			02/28/21 18:21	100
Ethylbenzene	ND		100	74	ug/L			02/28/21 18:21	100
1,2-Dibromoethane	ND		100	73	ug/L			02/28/21 18:21	100
Isopropylbenzene	ND		100	79	ug/L			02/28/21 18:21	100
Methyl acetate	ND		250	130	ug/L			02/28/21 18:21	100
Methyl tert-butyl ether	ND		100	16	ug/L			02/28/21 18:21	100
Methylcyclohexane	ND		100	16	ug/L			02/28/21 18:21	100
Methylene Chloride	ND		100	44	ug/L			02/28/21 18:21	100
Styrene	ND		100	73	ug/L			02/28/21 18:21	100
Tetrachloroethene	ND	F1	100	36	ug/L			02/28/21 18:21	100
Toluene	ND		100	51	ug/L			02/28/21 18:21	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			02/28/21 18:21	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			02/28/21 18:21	100
Trichloroethene	**5400**	**F1**	100	46	ug/L			02/28/21 18:21	100
Trichlorofluoromethane	ND		100	88	ug/L			02/28/21 18:21	100
Vinyl chloride	ND		100	90	ug/L			02/28/21 18:21	100
Xylenes, Total	ND		200	66	ug/L			02/28/21 18:21	100

Client Sample ID: LAE-4

Date Collected: 02/25/21 13:40
Date Received: 02/26/21 16:20

Lab Sample ID: 480-181501-10

Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/21 18:21	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120		02/28/21 18:21	100
1,2-Dichloroethane-d4 (Surr)	109		77 - 120		02/28/21 18:21	100
4-Bromofluorobenzene (Surr)	105		73 - 120		02/28/21 18:21	100
Dibromofluoromethane (Surr)	105		75 - 123		02/28/21 18:21	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/21 10:45	03/04/21 06:09	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 06:09	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 06:09	1
Barium	**0.10**		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 06:09	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 06:09	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 06:09	1
Calcium	**115**		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 06:09	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 06:09	1
Cobalt	**0.0036**	**J**	0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 06:09	1
Copper	ND		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 06:09	1
Iron	**0.22**		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 06:09	1
Lead	ND		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 06:09	1
Magnesium	**25.5**		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 06:09	1
Manganese	**1.5**	**B**	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 06:09	1
Nickel	**0.0061**	**J**	0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 06:09	1
Potassium	**0.70**	**B**	0.50	0.10	mg/L		03/03/21 10:45	03/04/21 16:16	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 06:09	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 06:09	1
Sodium	**15.3**		1.0	0.32	mg/L		03/03/21 10:45	03/04/21 16:16	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 06:09	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 06:09	1
Zinc	**0.0024**	**J**	0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 06:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 16:51	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181501-1

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)
480-181501-1	RFI-35	98	108	109	106
480-181501-2	RFI-36	96	109	108	108
480-181501-3	RFI-18	100	108	103	110
480-181501-4	RFI-27	99	106	105	106
480-181501-5	MW-7	102	109	109	111
480-181501-6	RFF-31	98	108	108	115
480-181501-7	RFF-05A	98	108	109	107
480-181501-8	RFI-26	95	111	107	107
480-181501-9	RFI-34	99	106	111	101
480-181501-10	LAE-4	96	109	105	105
480-181501-10 MS	LAE-4	99	101	110	102
480-181501-10 MSD	LAE-4	99	112	106	115
LCS 480-570811/5	Lab Control Sample	91	103	101	103
MB 480-570811/7	Method Blank	97	105	107	102

Surrogate Legend

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

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

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

Lab Sample ID: MB 480-570811/7
Matrix: Water
Analysis Batch: 570811

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			02/28/21 10:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/28/21 10:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/28/21 10:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/28/21 10:58	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/28/21 10:58	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/28/21 10:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/28/21 10:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/28/21 10:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/28/21 10:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/28/21 10:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/28/21 10:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/28/21 10:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/28/21 10:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/28/21 10:58	1
2-Hexanone	ND		5.0	1.2	ug/L			02/28/21 10:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/28/21 10:58	1
Acetone	ND		10	3.0	ug/L			02/28/21 10:58	1
Benzene	ND		1.0	0.41	ug/L			02/28/21 10:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/28/21 10:58	1
Bromoform	ND		1.0	0.26	ug/L			02/28/21 10:58	1
Bromomethane	ND		1.0	0.69	ug/L			02/28/21 10:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/28/21 10:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/28/21 10:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/28/21 10:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/28/21 10:58	1
Chloroethane	ND		1.0	0.32	ug/L			02/28/21 10:58	1
Chloroform	ND		1.0	0.34	ug/L			02/28/21 10:58	1
Chloromethane	ND		1.0	0.35	ug/L			02/28/21 10:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/28/21 10:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/28/21 10:58	1
Cyclohexane	ND		1.0	0.18	ug/L			02/28/21 10:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/28/21 10:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/28/21 10:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/28/21 10:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/28/21 10:58	1
Methyl acetate	ND		2.5	1.3	ug/L			02/28/21 10:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/28/21 10:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/28/21 10:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/28/21 10:58	1
Styrene	ND		1.0	0.73	ug/L			02/28/21 10:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/28/21 10:58	1
Toluene	ND		1.0	0.51	ug/L			02/28/21 10:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/28/21 10:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/28/21 10:58	1
Trichloroethene	ND		1.0	0.46	ug/L			02/28/21 10:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/28/21 10:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/28/21 10:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/28/21 10:58	1

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

Lab Sample ID: MB 480-570811/7
Matrix: Water
Analysis Batch: 570811

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

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					02/28/21 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		80 - 120		02/28/21 10:58	1
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		02/28/21 10:58	1
4-Bromofluorobenzene (Surr)	107		73 - 120		02/28/21 10:58	1
Dibromofluoromethane (Surr)	102		75 - 123		02/28/21 10:58	1

Lab Sample ID: LCS 480-570811/5
Matrix: Water
Analysis Batch: 570811

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	28.3		ug/L		113	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.3		ug/L		97	76 - 120
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	30.1		ug/L		120	61 - 148
1,1-Dichloroethane	25.0	27.4		ug/L		109	77 - 120
1,1-Dichloroethene	25.0	29.6		ug/L		118	66 - 127
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	56 - 134
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	27.7		ug/L		111	75 - 120
1,2-Dichloropropane	25.0	26.6		ug/L		106	76 - 120
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 120
2-Butanone (MEK)	125	150		ug/L		120	57 - 140
2-Hexanone	125	146		ug/L		117	65 - 127
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	71 - 125
Acetone	125	142		ug/L		114	56 - 142
Benzene	25.0	27.4		ug/L		109	71 - 124
Bromodichloromethane	25.0	27.6		ug/L		110	80 - 122
Bromoform	25.0	28.6		ug/L		114	61 - 132
Bromomethane	25.0	26.0		ug/L		104	55 - 144
Carbon disulfide	25.0	28.9		ug/L		116	59 - 134
Carbon tetrachloride	25.0	32.3		ug/L		129	72 - 134
Chlorobenzene	25.0	25.6		ug/L		103	80 - 120
Dibromochloromethane	25.0	26.6		ug/L		106	75 - 125
Chloroethane	25.0	24.9		ug/L		100	69 - 136
Chloroform	25.0	25.8		ug/L		103	73 - 127
Chloromethane	25.0	26.4		ug/L		106	68 - 124
cis-1,2-Dichloroethene	25.0	26.9		ug/L		108	74 - 124
cis-1,3-Dichloropropene	25.0	28.6		ug/L		115	74 - 124
Cyclohexane	25.0	32.9		ug/L		132	59 - 135
Dichlorodifluoromethane	25.0	30.8		ug/L		123	59 - 135
Ethylbenzene	25.0	25.7		ug/L		103	77 - 123
1,2-Dibromoethane	25.0	26.8		ug/L		107	77 - 120

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

Lab Sample ID: LCS 480-570811/5
Matrix: Water
Analysis Batch: 570811

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	24.7		ug/L		99	77 - 122
Methyl acetate	50.0	55.3		ug/L		111	74 - 133
Methyl tert-butyl ether	25.0	26.8		ug/L		107	77 - 120
Methylcyclohexane	25.0	28.1		ug/L		112	68 - 134
Methylene Chloride	25.0	24.5		ug/L		98	75 - 124
Styrene	25.0	26.0		ug/L		104	80 - 120
Tetrachloroethene	25.0	28.3		ug/L		113	74 - 122
Toluene	25.0	25.3		ug/L		101	80 - 122
trans-1,2-Dichloroethene	25.0	27.8		ug/L		111	73 - 127
trans-1,3-Dichloropropene	25.0	25.6		ug/L		102	80 - 120
Trichloroethene	25.0	28.1		ug/L		113	74 - 123
Trichlorofluoromethane	25.0	31.6		ug/L		127	62 - 150
Vinyl chloride	25.0	26.9		ug/L		108	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*91*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: 480-181501-10 MS
Matrix: Water
Analysis Batch: 570811

Client Sample ID: LAE-4
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		2500	2730		ug/L		109	73 - 126
1,1,2,2-Tetrachloroethane	ND		2500	2570		ug/L		103	76 - 120
1,1,2-Trichloroethane	ND		2500	2650		ug/L		106	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	3020		ug/L		121	61 - 148
1,1-Dichloroethane	ND		2500	2660		ug/L		106	77 - 120
1,1-Dichloroethene	ND	F1	2500	3000		ug/L		120	66 - 127
1,2,4-Trichlorobenzene	ND		2500	2630		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	ND		2500	2470		ug/L		99	56 - 134
1,2-Dichlorobenzene	ND		2500	2550		ug/L		102	80 - 124
1,2-Dichloroethane	ND		2500	2690		ug/L		108	75 - 120
1,2-Dichloropropane	ND		2500	2550		ug/L		102	76 - 120
1,3-Dichlorobenzene	ND		2500	2630		ug/L		105	77 - 120
1,4-Dichlorobenzene	ND		2500	2530		ug/L		101	78 - 124
2-Butanone (MEK)	ND		12500	14500		ug/L		116	57 - 140
2-Hexanone	ND		12500	15700		ug/L		125	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		12500	13900		ug/L		111	71 - 125
Acetone	ND		12500	13900		ug/L		112	56 - 142
Benzene	ND		2500	2650		ug/L		106	71 - 124
Bromodichloromethane	ND		2500	2630		ug/L		105	80 - 122
Bromoform	ND		2500	2850		ug/L		114	61 - 132
Bromomethane	ND	F2	2500	2410		ug/L		96	55 - 144
Carbon disulfide	ND		2500	2950		ug/L		118	59 - 134
Carbon tetrachloride	ND	F1	2500	3130		ug/L		125	72 - 134

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

Lab Sample ID: 480-181501-10 MS
Matrix: Water
Analysis Batch: 570811

Client Sample ID: LAE-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chlorobenzene	ND		2500	2760		ug/L		111	80 - 120
Dibromochloromethane	ND		2500	2680		ug/L		107	75 - 125
Chloroethane	ND		2500	2330		ug/L		93	69 - 136
Chloroform	ND		2500	2480		ug/L		99	73 - 127
Chloromethane	ND		2500	2600		ug/L		104	68 - 124
cis-1,2-Dichloroethene	1100		2500	3700		ug/L		105	74 - 124
cis-1,3-Dichloropropene	ND		2500	2560		ug/L		103	74 - 124
Cyclohexane	ND	F1	2500	3330		ug/L		133	59 - 135
Dichlorodifluoromethane	ND	F1	2500	3060		ug/L		123	59 - 135
Ethylbenzene	ND		2500	2670		ug/L		107	77 - 123
1,2-Dibromoethane	ND		2500	2720		ug/L		109	77 - 120
Isopropylbenzene	ND		2500	2640		ug/L		106	77 - 122
Methyl acetate	ND		5000	5310		ug/L		106	74 - 133
Methyl tert-butyl ether	ND		2500	2560		ug/L		102	77 - 120
Methylcyclohexane	ND		2500	2730		ug/L		109	68 - 134
Methylene Chloride	ND		2500	2430		ug/L		97	75 - 124
Styrene	ND		2500	2700		ug/L		108	80 - 120
Tetrachloroethene	ND	F1	2500	3070	F1	ug/L		123	74 - 122
Toluene	ND		2500	2630		ug/L		105	80 - 122
trans-1,2-Dichloroethene	ND		2500	2710		ug/L		108	73 - 127
trans-1,3-Dichloropropene	ND		2500	2460		ug/L		99	80 - 120
Trichloroethene	5400	F1	2500	8600	F1	ug/L		128	74 - 123
Trichlorofluoromethane	ND		2500	2890		ug/L		115	62 - 150
Vinyl chloride	ND		2500	2720		ug/L		109	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: 480-181501-10 MSD
Matrix: Water
Analysis Batch: 570811

Client Sample ID: LAE-4
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		2500	3110		ug/L		124	73 - 126	13	15
1,1,2,2-Tetrachloroethane	ND		2500	2530		ug/L		101	76 - 120	1	15
1,1,2-Trichloroethane	ND		2500	2620		ug/L		105	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2500	3270		ug/L		131	61 - 148	8	20
1,1-Dichloroethane	ND		2500	2980		ug/L		119	77 - 120	11	20
1,1-Dichloroethene	ND	F1	2500	3400	F1	ug/L		136	66 - 127	12	16
1,2,4-Trichlorobenzene	ND		2500	2550		ug/L		102	79 - 122	3	20
1,2-Dibromo-3-Chloropropane	ND		2500	2560		ug/L		102	56 - 134	4	15
1,2-Dichlorobenzene	ND		2500	2580		ug/L		103	80 - 124	1	20
1,2-Dichloroethane	ND		2500	2880		ug/L		115	75 - 120	7	20
1,2-Dichloropropane	ND		2500	2650		ug/L		106	76 - 120	4	20
1,3-Dichlorobenzene	ND		2500	2550		ug/L		102	77 - 120	3	20

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

Lab Sample ID: 480-181501-10 MSD
Matrix: Water
Analysis Batch: 570811

Client Sample ID: LAE-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	ND		2500	2490		ug/L		100	78 - 124	2	20
2-Butanone (MEK)	ND		12500	14500		ug/L		116	57 - 140	0	20
2-Hexanone	ND		12500	14100		ug/L		113	65 - 127	10	15
4-Methyl-2-pentanone (MIBK)	ND		12500	13400		ug/L		107	71 - 125	4	35
Acetone	ND		12500	14600		ug/L		117	56 - 142	5	15
Benzene	ND		2500	2800		ug/L		112	71 - 124	6	13
Bromodichloromethane	ND		2500	2820		ug/L		113	80 - 122	7	15
Bromoform	ND		2500	2900		ug/L		116	61 - 132	2	15
Bromomethane	ND	F2	2500	2860	F2	ug/L		115	55 - 144	17	15
Carbon disulfide	ND		2500	3270		ug/L		131	59 - 134	10	15
Carbon tetrachloride	ND	F1	2500	3540	F1	ug/L		142	72 - 134	13	15
Chlorobenzene	ND		2500	2660		ug/L		106	80 - 120	4	25
Dibromochloromethane	ND		2500	2650		ug/L		106	75 - 125	1	15
Chloroethane	ND		2500	2670		ug/L		107	69 - 136	14	15
Chloroform	ND		2500	2770		ug/L		111	73 - 127	11	20
Chloromethane	ND		2500	2910		ug/L		117	68 - 124	11	15
cis-1,2-Dichloroethene	1100		2500	4120		ug/L		121	74 - 124	11	15
cis-1,3-Dichloropropene	ND		2500	2590		ug/L		104	74 - 124	1	15
Cyclohexane	ND	F1	2500	3640	F1	ug/L		146	59 - 135	9	20
Dichlorodifluoromethane	ND	F1	2500	3420	F1	ug/L		137	59 - 135	11	20
Ethylbenzene	ND		2500	2640		ug/L		105	77 - 123	1	15
1,2-Dibromoethane	ND		2500	2550		ug/L		102	77 - 120	7	15
Isopropylbenzene	ND		2500	2650		ug/L		106	77 - 122	0	20
Methyl acetate	ND		5000	5590		ug/L		112	74 - 133	5	20
Methyl tert-butyl ether	ND		2500	2830		ug/L		113	77 - 120	10	37
Methylcyclohexane	ND		2500	3060		ug/L		122	68 - 134	11	20
Methylene Chloride	ND		2500	2730		ug/L		109	75 - 124	11	15
Styrene	ND		2500	2620		ug/L		105	80 - 120	3	20
Tetrachloroethene	ND	F1	2500	3050		ug/L		122	74 - 122	1	20
Toluene	ND		2500	2580		ug/L		103	80 - 122	2	15
trans-1,2-Dichloroethene	ND		2500	3100		ug/L		124	73 - 127	13	20
trans-1,3-Dichloropropene	ND		2500	2440		ug/L		98	80 - 120	1	15
Trichloroethene	5400	F1	2500	8960	F1	ug/L		143	74 - 123	4	16
Trichlorofluoromethane	ND		2500	3440		ug/L		138	62 - 150	18	20
Vinyl chloride	ND		2500	2930		ug/L		117	65 - 133	7	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*112*		*77 - 120*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*
Dibromofluoromethane (Surr)	*115*		*75 - 123*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-571036/1-A
Matrix: Water
Analysis Batch: 571305

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		03/03/21 10:45	03/04/21 04:51	1
Antimony	ND		0.020	0.0068	mg/L		03/03/21 10:45	03/04/21 04:51	1
Arsenic	ND		0.015	0.0056	mg/L		03/03/21 10:45	03/04/21 04:51	1
Barium	ND		0.0020	0.00070	mg/L		03/03/21 10:45	03/04/21 04:51	1
Beryllium	ND		0.0020	0.00030	mg/L		03/03/21 10:45	03/04/21 04:51	1
Cadmium	ND		0.0020	0.00050	mg/L		03/03/21 10:45	03/04/21 04:51	1
Calcium	ND		0.50	0.10	mg/L		03/03/21 10:45	03/04/21 04:51	1
Chromium	ND		0.0040	0.0010	mg/L		03/03/21 10:45	03/04/21 04:51	1
Cobalt	ND		0.0040	0.00063	mg/L		03/03/21 10:45	03/04/21 04:51	1
Copper	ND		0.010	0.0016	mg/L		03/03/21 10:45	03/04/21 04:51	1
Iron	ND		0.050	0.019	mg/L		03/03/21 10:45	03/04/21 04:51	1
Lead	ND		0.010	0.0030	mg/L		03/03/21 10:45	03/04/21 04:51	1
Magnesium	ND		0.20	0.043	mg/L		03/03/21 10:45	03/04/21 04:51	1
Manganese	0.00274	J	0.0030	0.00040	mg/L		03/03/21 10:45	03/04/21 04:51	1
Nickel	ND		0.010	0.0013	mg/L		03/03/21 10:45	03/04/21 04:51	1
Selenium	ND		0.025	0.0087	mg/L		03/03/21 10:45	03/04/21 04:51	1
Silver	ND		0.0060	0.0017	mg/L		03/03/21 10:45	03/04/21 04:51	1
Thallium	ND		0.020	0.010	mg/L		03/03/21 10:45	03/04/21 04:51	1
Vanadium	ND		0.0050	0.0015	mg/L		03/03/21 10:45	03/04/21 04:51	1
Zinc	ND		0.010	0.0015	mg/L		03/03/21 10:45	03/04/21 04:51	1

Lab Sample ID: MB 480-571036/1-A
Matrix: Water
Analysis Batch: 571631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	0.233	J	0.50	0.10	mg/L		03/03/21 10:45	03/05/21 18:43	1
Sodium	ND		1.0	0.32	mg/L		03/03/21 10:45	03/05/21 18:43	1

Lab Sample ID: LCS 480-571036/2-A
Matrix: Water
Analysis Batch: 571305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.10		mg/L		101	80 - 120
Antimony	0.200	0.212		mg/L		106	80 - 120
Arsenic	0.200	0.209		mg/L		105	80 - 120
Barium	0.200	0.214		mg/L		107	80 - 120
Beryllium	0.200	0.198		mg/L		99	80 - 120
Cadmium	0.200	0.208		mg/L		104	80 - 120
Calcium	10.0	9.78		mg/L		98	80 - 120
Chromium	0.200	0.186		mg/L		93	80 - 120
Cobalt	0.200	0.196		mg/L		98	80 - 120
Copper	0.200	0.211		mg/L		105	80 - 120
Iron	10.0	9.91		mg/L		99	80 - 120
Lead	0.200	0.193		mg/L		96	80 - 120
Magnesium	10.0	9.82		mg/L		98	80 - 120
Manganese	0.200	0.205		mg/L		103	80 - 120
Nickel	0.200	0.195		mg/L		97	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-571036/2-A
Matrix: Water
Analysis Batch: 571305

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	0.200	0.202		mg/L		101	80 - 120
Silver	0.0500	0.0460		mg/L		92	80 - 120
Thallium	0.200	0.199		mg/L		100	80 - 120
Vanadium	0.200	0.184		mg/L		92	80 - 120
Zinc	0.200	0.193		mg/L		97	80 - 120

Lab Sample ID: LCS 480-571036/2-A
Matrix: Water
Analysis Batch: 571631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.44		mg/L		104	80 - 120
Sodium	10.0	10.30		mg/L		103	80 - 120

Lab Sample ID: 480-181501-1 MS
Matrix: Water
Analysis Batch: 571305

Client Sample ID: RFI-35
Prep Type: Total/NA
Prep Batch: 571036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	0.75		10.0	11.31		mg/L		106	75 - 125
Antimony	ND		0.200	0.212		mg/L		106	75 - 125
Arsenic	ND		0.200	0.215		mg/L		108	75 - 125
Barium	0.46		0.200	0.658		mg/L		99	75 - 125
Beryllium	ND		0.200	0.198		mg/L		99	75 - 125
Cadmium	ND		0.200	0.210		mg/L		105	75 - 125
Calcium	116		10.0	124.0	4	mg/L		77	75 - 125
Chromium	ND		0.200	0.184		mg/L		92	75 - 125
Cobalt	0.0023	J	0.200	0.202		mg/L		100	75 - 125
Copper	ND		0.200	0.209		mg/L		105	75 - 125
Iron	1.5		10.0	11.17		mg/L		97	75 - 125
Lead	ND		0.200	0.196		mg/L		98	75 - 125
Magnesium	31.5		10.0	41.04		mg/L		95	75 - 125
Manganese	4.4	B	0.200	4.57	4	mg/L		66	75 - 125
Nickel	0.0048	J	0.200	0.202		mg/L		99	75 - 125
Selenium	ND		0.200	0.207		mg/L		103	75 - 125
Silver	ND		0.0500	0.0468		mg/L		94	75 - 125
Thallium	ND		0.200	0.198		mg/L		99	75 - 125
Vanadium	ND		0.200	0.186		mg/L		93	75 - 125
Zinc	0.0087	J	0.200	0.202		mg/L		97	75 - 125

Lab Sample ID: 480-181501-1 MS
Matrix: Water
Analysis Batch: 571631

Client Sample ID: RFI-35
Prep Type: Total/NA
Prep Batch: 571036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	2.8	B	10.0	13.29		mg/L		104	75 - 125
Sodium	57.7		10.0	67.02	4	mg/L		93	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-181501-1 MSD
Matrix: Water
Analysis Batch: 571305

Client Sample ID: RFI-35
Prep Type: Total/NA
Prep Batch: 571036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.75		10.0	11.40		mg/L		106	75 - 125	1	20
Antimony	ND		0.200	0.217		mg/L		108	75 - 125	2	20
Arsenic	ND		0.200	0.219		mg/L		109	75 - 125	2	20
Barium	0.46		0.200	0.658		mg/L		99	75 - 125	0	20
Beryllium	ND		0.200	0.199		mg/L		99	75 - 125	0	20
Cadmium	ND		0.200	0.213		mg/L		106	75 - 125	1	20
Calcium	116		10.0	125.5	4	mg/L		93	75 - 125	1	20
Chromium	ND		0.200	0.182		mg/L		91	75 - 125	1	20
Cobalt	0.0023	J	0.200	0.204		mg/L		101	75 - 125	1	20
Copper	ND		0.200	0.212		mg/L		106	75 - 125	1	20
Iron	1.5		10.0	11.37		mg/L		99	75 - 125	2	20
Lead	ND		0.200	0.197		mg/L		98	75 - 125	0	20
Magnesium	31.5		10.0	41.19		mg/L		96	75 - 125	0	20
Manganese	4.4	B	0.200	4.61	4	mg/L		85	75 - 125	1	20
Nickel	0.0048	J	0.200	0.205		mg/L		100	75 - 125	1	20
Selenium	ND		0.200	0.210		mg/L		105	75 - 125	1	20
Silver	ND		0.0500	0.0473		mg/L		95	75 - 125	1	20
Thallium	ND		0.200	0.198		mg/L		99	75 - 125	0	20
Vanadium	ND		0.200	0.184		mg/L		92	75 - 125	1	20
Zinc	0.0087	J	0.200	0.200		mg/L		96	75 - 125	1	20

Lab Sample ID: 480-181501-1 MSD
Matrix: Water
Analysis Batch: 571631

Client Sample ID: RFI-35
Prep Type: Total/NA
Prep Batch: 571036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	2.8	B	10.0	13.20		mg/L		103	75 - 125	1	20
Sodium	57.7		10.0	67.66	4	mg/L		99	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-571187/1-A
Matrix: Water
Analysis Batch: 571251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571187

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 16:12	1

Lab Sample ID: LCS 480-571187/2-A
Matrix: Water
Analysis Batch: 571251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571187

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00670		mg/L		100	80 - 120		

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 480-571188/1-A
Matrix: Water
Analysis Batch: 571251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 571188

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		03/03/21 13:16	03/03/21 16:49	1

Lab Sample ID: LCS 480-571188/2-A
Matrix: Water
Analysis Batch: 571251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 571188

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00668		mg/L		100	80 - 120

GC/MS VOA

Analysis Batch: 570811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181501-1	RFI-35	Total/NA	Water	8260C	
480-181501-2	RFI-36	Total/NA	Water	8260C	
480-181501-3	RFI-18	Total/NA	Water	8260C	
480-181501-4	RFI-27	Total/NA	Water	8260C	
480-181501-5	MW-7	Total/NA	Water	8260C	
480-181501-6	RFF-31	Total/NA	Water	8260C	
480-181501-7	RFF-05A	Total/NA	Water	8260C	
480-181501-8	RFI-26	Total/NA	Water	8260C	
480-181501-9	RFI-34	Total/NA	Water	8260C	
480-181501-10	LAE-4	Total/NA	Water	8260C	
MB 480-570811/7	Method Blank	Total/NA	Water	8260C	
LCS 480-570811/5	Lab Control Sample	Total/NA	Water	8260C	
480-181501-10 MS	LAE-4	Total/NA	Water	8260C	
480-181501-10 MSD	LAE-4	Total/NA	Water	8260C	

Metals

Prep Batch: 571036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181501-1	RFI-35	Total/NA	Water	3005A	
480-181501-2	RFI-36	Total/NA	Water	3005A	
480-181501-3	RFI-18	Total/NA	Water	3005A	
480-181501-4	RFI-27	Total/NA	Water	3005A	
480-181501-5	MW-7	Total/NA	Water	3005A	
480-181501-6	RFF-31	Total/NA	Water	3005A	
480-181501-7	RFF-05A	Total/NA	Water	3005A	
480-181501-8	RFI-26	Total/NA	Water	3005A	
480-181501-9	RFI-34	Total/NA	Water	3005A	
480-181501-10	LAE-4	Total/NA	Water	3005A	
MB 480-571036/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-571036/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-181501-1 MS	RFI-35	Total/NA	Water	3005A	
480-181501-1 MSD	RFI-35	Total/NA	Water	3005A	

Prep Batch: 571187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181501-1	RFI-35	Total/NA	Water	7470A	
480-181501-2	RFI-36	Total/NA	Water	7470A	
480-181501-3	RFI-18	Total/NA	Water	7470A	
480-181501-4	RFI-27	Total/NA	Water	7470A	
480-181501-5	MW-7	Total/NA	Water	7470A	
480-181501-6	RFF-31	Total/NA	Water	7470A	
MB 480-571187/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-571187/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 571188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181501-7	RFF-05A	Total/NA	Water	7470A	
480-181501-8	RFI-26	Total/NA	Water	7470A	
480-181501-9	RFI-34	Total/NA	Water	7470A	
480-181501-10	LAE-4	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 571188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-571188/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-571188/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 571251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181501-1	RFI-35	Total/NA	Water	7470A	571187
480-181501-2	RFI-36	Total/NA	Water	7470A	571187
480-181501-3	RFI-18	Total/NA	Water	7470A	571187
480-181501-4	RFI-27	Total/NA	Water	7470A	571187
480-181501-5	MW-7	Total/NA	Water	7470A	571187
480-181501-6	RFF-31	Total/NA	Water	7470A	571187
480-181501-7	RFF-05A	Total/NA	Water	7470A	571188
480-181501-8	RFI-26	Total/NA	Water	7470A	571188
480-181501-9	RFI-34	Total/NA	Water	7470A	571188
480-181501-10	LAE-4	Total/NA	Water	7470A	571188
MB 480-571187/1-A	Method Blank	Total/NA	Water	7470A	571187
MB 480-571188/1-A	Method Blank	Total/NA	Water	7470A	571188
LCS 480-571187/2-A	Lab Control Sample	Total/NA	Water	7470A	571187
LCS 480-571188/2-A	Lab Control Sample	Total/NA	Water	7470A	571188

Analysis Batch: 571305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181501-1	RFI-35	Total/NA	Water	6010C	571036
480-181501-2	RFI-36	Total/NA	Water	6010C	571036
480-181501-3	RFI-18	Total/NA	Water	6010C	571036
480-181501-4	RFI-27	Total/NA	Water	6010C	571036
480-181501-5	MW-7	Total/NA	Water	6010C	571036
480-181501-6	RFF-31	Total/NA	Water	6010C	571036
480-181501-7	RFF-05A	Total/NA	Water	6010C	571036
480-181501-8	RFI-26	Total/NA	Water	6010C	571036
480-181501-9	RFI-34	Total/NA	Water	6010C	571036
480-181501-10	LAE-4	Total/NA	Water	6010C	571036
MB 480-571036/1-A	Method Blank	Total/NA	Water	6010C	571036
LCS 480-571036/2-A	Lab Control Sample	Total/NA	Water	6010C	571036
480-181501-1 MS	RFI-35	Total/NA	Water	6010C	571036
480-181501-1 MSD	RFI-35	Total/NA	Water	6010C	571036

Analysis Batch: 571485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181501-2	RFI-36	Total/NA	Water	6010C	571036
480-181501-3	RFI-18	Total/NA	Water	6010C	571036
480-181501-4	RFI-27	Total/NA	Water	6010C	571036
480-181501-5	MW-7	Total/NA	Water	6010C	571036
480-181501-6	RFF-31	Total/NA	Water	6010C	571036
480-181501-7	RFF-05A	Total/NA	Water	6010C	571036
480-181501-8	RFI-26	Total/NA	Water	6010C	571036
480-181501-9	RFI-34	Total/NA	Water	6010C	571036
480-181501-10	LAE-4	Total/NA	Water	6010C	571036

QC Association Summary

Client: New York State D.E.C.
Project/Site: AI Tech Specialty Steel #907022

Job ID: 480-181501-1

Metals

Analysis Batch: 571631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181501-1	RFI-35	Total/NA	Water	6010C	571036
MB 480-571036/1-A	Method Blank	Total/NA	Water	6010C	571036
LCS 480-571036/2-A	Lab Control Sample	Total/NA	Water	6010C	571036
480-181501-1 MS	RFI-35	Total/NA	Water	6010C	571036
480-181501-1 MSD	RFI-35	Total/NA	Water	6010C	571036

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-35
Lab Sample ID: 480-181501-1
Date Collected: 02/25/21 16:25
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570811	02/28/21 14:44	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 04:58	AMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571631	03/05/21 18:50	AMH	TAL BUF
Total/NA	Prep	7470A			571187	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 16:32	BMB	TAL BUF

Client Sample ID: RFI-36
Lab Sample ID: 480-181501-2
Date Collected: 02/25/21 15:40
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570811	02/28/21 15:08	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571485	03/04/21 15:33	LMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 05:28	AMH	TAL BUF
Total/NA	Prep	7470A			571187	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 16:33	BMB	TAL BUF

Client Sample ID: RFI-18
Lab Sample ID: 480-181501-3
Date Collected: 02/25/21 09:30
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570811	02/28/21 15:33	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571485	03/04/21 15:37	LMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 05:32	AMH	TAL BUF
Total/NA	Prep	7470A			571187	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 16:34	BMB	TAL BUF

Client Sample ID: RFI-27
Lab Sample ID: 480-181501-4
Date Collected: 02/25/21 10:30
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570811	02/28/21 15:56	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571485	03/04/21 15:53	LMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 05:35	AMH	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-27
Lab Sample ID: 480-181501-4
Date Collected: 02/25/21 10:30
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			571187	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 16:35	BMB	TAL BUF

Client Sample ID: MW-7
Lab Sample ID: 480-181501-5
Date Collected: 02/25/21 11:20
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	570811	02/28/21 16:20	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571485	03/04/21 15:56	LMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 05:39	AMH	TAL BUF
Total/NA	Prep	7470A			571187	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 16:37	BMB	TAL BUF

Client Sample ID: RFF-31
Lab Sample ID: 480-181501-6
Date Collected: 02/25/21 10:00
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	570811	02/28/21 16:44	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571485	03/04/21 16:00	LMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 05:43	AMH	TAL BUF
Total/NA	Prep	7470A			571187	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 16:38	BMB	TAL BUF

Client Sample ID: RFF-05A
Lab Sample ID: 480-181501-7
Date Collected: 02/25/21 10:40
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570811	02/28/21 17:09	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571485	03/04/21 16:04	LMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 05:47	AMH	TAL BUF
Total/NA	Prep	7470A			571188	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 17:11	BMB	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Client Sample ID: RFI-26
Lab Sample ID: 480-181501-8
Date Collected: 02/25/21 11:30
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	570811	02/28/21 17:33	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571485	03/04/21 16:08	LMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 05:50	AMH	TAL BUF
Total/NA	Prep	7470A			571188	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 17:15	BMB	TAL BUF

Client Sample ID: RFI-34
Lab Sample ID: 480-181501-9
Date Collected: 02/25/21 12:00
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	570811	02/28/21 17:57	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571485	03/04/21 16:12	LMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 05:54	AMH	TAL BUF
Total/NA	Prep	7470A			571188	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 17:16	BMB	TAL BUF

Client Sample ID: LAE-4
Lab Sample ID: 480-181501-10
Date Collected: 02/25/21 13:40
Matrix: Water
Date Received: 02/26/21 16:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	570811	02/28/21 18:21	AMM	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571485	03/04/21 16:16	LMH	TAL BUF
Total/NA	Prep	3005A			571036	03/03/21 10:45	KMP	TAL BUF
Total/NA	Analysis	6010C		1	571305	03/04/21 06:09	AMH	TAL BUF
Total/NA	Prep	7470A			571188	03/03/21 13:16	BMB	TAL BUF
Total/NA	Analysis	7470A		1	571251	03/03/21 16:51	BMB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-181501-1
Project/Site: Al Tech Specialty Steel #907022

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

Method Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181501-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	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 = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: Al Tech Specialty Steel #907022

Job ID: 480-181501-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181501-1	RFI-35	Water	02/25/21 16:25	02/26/21 16:20	
480-181501-2	RFI-36	Water	02/25/21 15:40	02/26/21 16:20	
480-181501-3	RFI-18	Water	02/25/21 09:30	02/26/21 16:20	
480-181501-4	RFI-27	Water	02/25/21 10:30	02/26/21 16:20	
480-181501-5	MW-7	Water	02/25/21 11:20	02/26/21 16:20	
480-181501-6	RFF-31	Water	02/25/21 10:00	02/26/21 16:20	
480-181501-7	RFF-05A	Water	02/25/21 10:40	02/26/21 16:20	
480-181501-8	RFI-26	Water	02/25/21 11:30	02/26/21 16:20	
480-181501-9	RFI-34	Water	02/25/21 12:00	02/26/21 16:20	
480-181501-10	LAE-4	Water	02/25/21 13:40	02/26/21 16:20	

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Peter Zaffram	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-156660-34187.1
Client Contact: Damianos Skaros	Phone: 716-553-5129	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin:	Page: Page 1 of 4
Company: New York State D.E.C.	PWSID:			Job #:
Address: 270 Michigan Avenue	Due Date Requested:			
City: Buffalo	TAT Requested (days): Standard			
State, Zip: NY, 14203	Compliance Project: Δ Yes Δ No			
Phone:	PO #: CallOut ID: 137005			
Email: dtskaros@gw.dec.state.ny.us	WO #: 0901688			
Project Name: Altech Specialty Steel #907022	Project #: 48020089			
Site: Altech Steel	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
SP Dodecahydrate
cetone
CAA
H 4-5
her (specify)

480-181501 Chain of Custody

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 - (MOD) TCL list OLM04.2 + TICs	6010C, 7470A	7196A - Chromium, hexavalent	Total Num!	Special Instructions/Note:
			Preservation Code:				A	D	N		
RFI - 35	2/25/21	1625	G	Water			X	X			
RFI - 36	2/25/21	1540	G	Water			X	X			
RFI - 18	2/26/21	0930	G	Water			X	X			
RFI - 27	2/26/21	1030	G	Water			X	X			
MW - 7	2/26/21	1120	G	Water			X	X			
RFI - 31	2/26/21	1000	G	Water			X	X			
RFI - 05A	2/26/21	1040	G	Water			X	X			
RFI - 26	2/26/21	1130	G	Water			X	X			
RFI - 34	2/26/21	1200	G	Water			X	X			
LAE - 4	2/26/21	1340	G	Water			X	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
		2/26/21	GES	2/26/21 1620		TA
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	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: 3.1 #105

Ver: 11/01/2020

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-181501-1

Login Number: 181501 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Stopa, Erik 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	GES
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	

Appendix B – DUSR

RemVēr

Quality Assessment
Data Usability Summary Report

			RemVēr Project #2020GE48 Client Project #0901688-06-840
Site:	Al-Tech, Dunkirk, NY	**Site #:**	907022
Client:	NYSDEC via GES, Inc.	**Site Owner:**	–N/A–
Sample Delivery Groups (SDGs)	See Table #1		
Sample Matrix:	☐ Drinking water ☒ Groundwater ☐ Surface water ☐ Soil ☐ Sediment ☐ Air ☐ Biota (tissue, type: _____) ☐ Other: _____		

Introduction

Groundwater & Environmental Services (GES) contracted RemVēr to perform a data quality assessment (DQA) on analytical laboratory data of groundwater samples. Eurofins/Test America (E/TA) reported the data in separate Sample Delivery Groups (SDGs, see Table 1). Table 2 provides a cross-list of the samples associated with each SDG.

A DQA is an evaluation of the performance of analytical procedures and quality of the resulting data. Following the requirements of the New York State Department of Environmental Conservation (NYSDEC) Data Usability Summary Report (DUSR) guidelines for an Analytical Services Protocol (ASP) Category B Data Deliverable, RemVēr prepared a separate DQA/DUSR sub-report for each SDG, evaluating the performance of the analytical procedures and the quality of the resulting data. Each sub-report includes a narrative discussion of qualified sample, a DQA Detail Worksheet, and a Non-Conformance Summary Worksheet describing the final reported qualification flags applied to the data during the DQA. Additionally, a validated EXCEL electronic data deliverable (EDD) is included with this deliverable for each SDG discussed herein.

Intended Use of Data Under Review

NYSDEC contracted GES to perform a 2021 site-wide comprehensive groundwater monitoring event at the referenced site. The monitoring event's (February 2021) purpose was to update the existing groundwater dataset with current synoptic conditions. This report focuses on samples collected from wells along Lucas Street immediately north of the site. Sampling was to provide analyses of groundwater conditions for the presence of volatile organic compounds (VOCs) and metals/metalloids.

Significant Data Usability Issues in This Group of SDGs

RemVer rejected no results, and they are acceptable for use. Certain results may have flagged analytes indicating non-detection or quality issues arising from sample handling, laboratory accuracy, or precision issues. Refer to the individual SDG Lab Results and the two respective Data Usability Narrative section of each DUSR sub-report for further detail.

Reported Methods

- ☐ Method 1311 TCLP
- ☐ Method 1312 SPLP
- ☒ Method 6010A, B & C / 6020 Trace Metals
- ☐ Method 7000 Metals
- ☒ Method 7196 Hexavalent Chromium (other:_____)
- ☒ Method 7470A or 7471 Mercury
- ☐ Method 8021 Volatile Organic Compounds (VOCs) GC
- ☐ Method 8081B or ☐ 608 Pesticides
- ☐ Method 8082 or ☐ 608 PCBs
- ☐ Method 8151 Chlorinated Herbicides
- ☒ Method 8260C VOCs GC/MS
- ☐ Method 8270D Semi-VOCs (sVOCs) GC/MS &/or SIM-ID
- ☐ Method 9010/9012/9014 Cyanides (_____)
- ☐ Method TO-13A PAHs (air)
- ☐ Method TO-14A / -15 VOCs (air, summa) (_____)
- ☐ Method TO-17 VOCs (air, sorbent)
- ☐ Method 537 PFCs via SPE & LC/MS-MS
- ☐ Volatile Petroleum Hydrocarbons (VPH) Method
- ☐ Extractable Petroleum Hydrocarbons (EPH)
- ☒ Other Methods:
  - ☑ Method 3005A Total Metals Preparation
  - ☑ Method 5030A/B/C Purge & Trap
  - ☑ Method 7470A Mercury Preparation

Quality Control Requirements Summary

- ☒ Duplicate
- ☒ Matrix Spike [MS] / Matrix Spike Duplicate [MSD]
- ☒ Trip Blanks (as appropriate)
- ☐ Equipment, Method, &/or Rinsate Blank
- ☒ Other Field QC: Field notes regarding sampling
- ☐ Special QAPP Requirements: _____
  _____

Table 1. Sample Data Group (SDG) List

SDG 480-#	# Samples	# Blanks	# Duplicates	Sample Date	METHODS			
					VOCs	Metals	Hg	Cr $^{6+}$
181451	11	—	1	25Feb2021	X	X	X	X
181501	10	—	—	25Feb2021	X	X	X	—

Table 2. SDG and Sample List

Count	SDG 480-#	Sample #	Sample Name	Sample Date	Received
1	181451	#–1	TW-8	02/25/21 09:20	02/25/21 16:27
2		#–2	TW-6	02/25/21 10:30	02/25/21 16:27
3		#–3	TW-13	02/25/21 11:45	02/25/21 16:27
4		#–4	TW-12	02/25/21 10:30	02/25/21 16:27
5		#–5	TW-15	02/25/21 09:15	02/25/21 16:27
6		#–6	TW-7	02/25/21 12:10	02/25/21 16:27
7		#–7	TW-9	02/25/21 12:55	02/25/21 16:27
8		#–8	TW-14	02/25/21 13:00	02/25/21 16:27
9		#–9	TW-5A	02/25/21 14:05	02/25/21 16:27
10		#–10	RFI-08A	02/25/21 14:25	02/25/21 16:27
11		#–11	MW-6	02/25/21 15:00	02/25/21 16:27
12		#–12	DUP-001	02/25/21 00:00	02/25/21 16:27

Count	SDG 480-#	Sample #	Sample Name	Sample Date	Received
13	181501	#–1	RFI-35	02/25/21 16:25	02/26/21 16:20
14		#–2	RFI-36	02/25/21 15:40	02/26/21 16:20
15		#–3	RFI-18	02/25/21 09:30	02/26/21 16:20
16		#–4	RFI-27	02/25/21 10:30	02/26/21 16:20
17		#–5	MW-7	02/25/21 11:20	02/26/21 16:20
18		#–6	RFF-31	02/25/21 10:00	02/26/21 16:20
19		#–7	RFF-05A	02/25/21 10:40	02/26/21 16:20
20		#–8	RFI-26	02/25/21 11:30	02/26/21 16:20
21		#–9	RFI-34	02/25/21 12:00	02/26/21 16:20
22		#–10	LAE-4	02/25/21 13:40	02/26/21 16:20

References

NYSDEC, 2010, *Technical Guidance for Site Investigation and Remediation*, "DER-10," Division of Environmental Remediation: Albany, NY, May, 232p

NYSDEC, 2010, *Guidance for Data Deliverables and the Development of Data Usability Summary Reports*, Appendix 2B IN *Technical Guidance for Site Investigation and Remediation*, Division of Environmental Remediation: Albany, NY, May, 232p

USEPA, 2008, *Contract Laboratory Program National Functional Guidelines for Organic Data Review*, OSWER 9240.1-48, USEPA-540-R-08-01, Office of Superfund Remediation and Technology Innovation: Washington, DC, June, 225p

USEPA, 2010, *Contract Laboratory Program National Functional Guidelines for Inorganic Data Review*, OSWER 9240.1-51, USEPA-540-R-10-011, Office of Superfund Remediation and Technology Innovation: Washington, DC, January, 110p

USEPA, 2012, *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846*, Current Online Revision: http://www.epa.gov/epawaste/hazard/testmethods/sw846/online/index.htm, accessed April 2012

Attachments

1. Qualifier Flags
2. Data Usability Reviewer Biography
3. DUSR Sub-Report for SDG #480-181451
4. DUSR Sub-Report for SDG #480-181501

NOTE: Each DUSR Sub-Report has an associated separate annotated EDD with validation attached hereto (Excel File Name Format: SDG-#_EquaNysdec-V.xls)

Prepared by: Kurt A. Frantzen, PhD
April 14, 2021

GES PO #1115939-1100

Attachment 1. Qualifier Flags

Qualifier	Quality Implication
0–9	Use with Coeluting Congeners
A	Tentatively Identified Compound (TIC) suspected to be an aldol condensation product
B | EB **TB | BB** **RB** **BH/BL**	An analyte identified in method blank (B), aqueous equipment (EB), rinsate (RB), trip (TB), or bottle blanks (BB) used to assess field contamination associated with soil or sediment samples mandates these qualifiers for only soil and sediment sample results. Analyte detected in Blank at level >10X/5-10X that of the Sample
D	Sample analysis from dilution of original sample
E	Analyte concentration exceeds calibration range
HT	Holding time violation
J	Analyte positively identified at a numerical value that is the approximate concentration of the analyte in the sample
J +	Sample likely to have a high bias
J –	Sample likely to have a low bias
UJ	Analyte not detected above the sample quantitation limit; the associated quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a "tentative identification."
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
R	Sample result rejected due to serious deficiency in ability to analyze sample and meet quality control criteria; the presence or absence of the analyte cannot be confirmed. This qualifier also may apply when more than one sample result is generated for a target analyte (*i.e.*, dilutions or re-analyses), the most technically acceptable result is considered acceptable.
P	Use professional judgment based on data use. It usually has an "M" with it, which indicates that a manual check should be made if the data that are qualified with the "P" are important to the data user. In addition, "PM" also means a decision is necessary from the Project Manager (or a delegate) concerning the need for further review of the data (*see below*).
PM	A manual review of the raw data is recommended to determine if the defect affects data use, as in "R" above. This review should include consideration of potential affects that could result from using the "P" qualified data. For example, in the case of holding-time exceedance, the Project Manager or delegate can decide to use the data with no qualification when analytes of interest are known not to be adversely affected by holding-time exceedances. Another example is the case where soil sample duplicate analyses for metals exceed the precision criteria; because this is likely due to sample non-homogeneity rather than contract laboratory error, then the manager or delegate must decide how to use the data.
U	Analyte analyzed for, but not detected above the sample's reported quantitation limit

Attachment 2. Data Usability Reviewer: Kurt A. Frantzen, PhD

Experience

2013-Present	d/b/a RemVēr	Owner
2014-2019	AECC	Senior EHS Consultant
2011-2012	RemVēr, Inc.	President
2006-2011	Kleinfelder	Senior Principal Scientist
2005	Kleinfelder	Principal Scientist, Part-Time/On Call
2004-2006	d/b/a Environmental Risk Group	Owner
2004-2006	RemVēr, Inc., Larchmont, NY	Founder, President
1999-2004	VHB, Inc.	ERM Director & Associate
1997-1998	GEI Consultants, Inc.	Senior Project Manager
1992-1997	Ecology and Environment, Inc.	Technical Chief
1991-1992	EA Engineering, Science, & Technology, Inc.	Project Manager III
1990-1991	Ecology and Environment, Inc.	Technical Group Manager
1986-1990	Ecology and Environment, Inc.	Senior Environmental Scientist

Education

Am Cancer Soc. Post-Doctoral Fellow, U Washington 1985-1986

PhD—Life Sci. / Biochem, NU—Lincoln	1985
MS—Plant Pathology, Kansas State Univ.	1980
BS—Biology, NU—Omaha	1978

Other

- CERCLA & RCRA experience, as well as DOD (Air Force & Army) & DOE (INEL)
- NE Regional Experience—NY BCP; Mass MCP; & various sites in CT, RI & NH
- National Experience: NE, SE, Gulf & West Coast, Mid-west, Inter-mountain, California, Alaska
- International: Germany, Israel, Kuwait, Australia
- Selected Publications
    - *Using Risk Appraisals to Manage Environmentally Impaired Properties*, 2000, VHB Site Works, Report 108
    - *Risk-Based Analysis for Environmental Managers*, 2001, CRC/Lewis
    - Chapter 7 Risk Assessment, *Managing Hazardous Materials*, 2002 & 2009, IHMM
    - Chapter 22 Cleanup Goals, *Brownfields Law & Practice*, 2004-Present, Lexis/Nexis
    - *Use of Risk Assessment in Risk Management of Contaminated Sites*, 2008, ITRC
- 63 Conference Papers & Invited Professional Presentations
    - 1999-2021, Visiting Lecturer, Brownfields Program & Open Studio, Harvard Graduate School of Design
    - 2010-2013, Invited Lecturer, Pace University Law School
    - 2014-2015, Adjunct Professor, Pace University Law School

Attachment 3. Data Usability Sub-Report for SDG #480-181451

Detailed Quality Review

Field Notes Review

	Y	N	NA	COMMENTS
Sampling notes	☒	☐	☐	
Field meteorological data	☐	☐	☒	No review required under QAPP
Associated sampling location and plan included	☐	☒	☐	See RAP/QAPP
Associated drilling logs available, reviewed	☐	☐	☒	No review required under QAPP
Identification of QC samples in notes	☒	☐	☐	Sample IDs
Sampling instrument decontamination records	☐	☐	☒	No review required under QAPP
Sampling instrument calibration logs	☐	☐	☒	No review required under QAPP
Chain of custody included	☒	☐	☐	With analytical report
Notes include communication logs	☐	☒	☐	
Any corrective action (CA) reports	☐	☒	☐	If so, CA documentation of results required.
Any deviation from methods noted? If so, explain	☐	☒	☐	None
Any electronic data deliverables	☐	☒	☐	None
Sampling Report (by Field Team Leader)	☒	☐	☐	Field Notes

Lab Report Contents (Test America SDG Reports: #480-181451)

☒ SDG Narrative
☒ Contract Lab Sample Information Sheets
☒ Data Package Summary Forms
☒ Chain-of-Custody (COC) Forms
☒ Test Results (no tentatively identified compounds [TICs])
☒ Calibration standards
☒ Surrogate recoveries
☒ Blank results
☒ Spike recoveries
☒ Duplicate results
☒ Confirmation (lab check/QC) samples
☒ Internal standard area & retention time summary
☒ Chromatograms
☒ Raw data files
☒ Other specific information

Is the data package complete as defined under the requirements for the NYSDEC ASP Category B?		
Laboratory Report	**Complete (Y/N)**	**Comments**
480-181451	Y	No

Sample Preservation Requirements & Holding Times Met?			
Laboratory Report	**Hold Times (Y/N)**	**Preservation (Y/N)**	**Exception Comment**
480-181451	Y	Y	None

Do the QC data fall within the protocol required limits and specifications? *(1) blanks, (2) instrument tunings, (3) calibration standards, (4) calibration verifications, (5) surrogate recoveries/ISD, (6) spike recoveries, (7) replicate analyses, (8) laboratory controls, (9) and sample data*									
SDG	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
480-181451	☒	☐	☐	☒	☐	☒	☒	☐	☒
The narrative section, below, discusses these deficiencies in detail, see Attachment 1 as well.									

Were the data generated using established and agreed upon analytical protocols?		
Laboratory Report	**Protocols (Y/N)**	**Exception Comment**
480-181451	Y	No

Do the raw data confirm the results provided in the data summary sheets and quality control verification forms?		
Laboratory Report	**Confirmation (Y/N)**	**Exception Comment**
480-181451	Y	No

Were the correct data qualifiers used and consistent with the most current guidance?		
Laboratory Report	**Qualifiers (Y/N)**	**Comment**
480-181451	Y	The laboratory generally applied appropriate qualifiers.

Were any quality control (QC) exceedances specifically noted in this DUSR and the corresponding QC summary sheets from the data packages referenced?		
Laboratory Report	**QC Exceedances Documented (Y/N)**	**Comment**
480-181451	Y	Data qualifications were applied as described below

Data Quality and Usability Narrative

Field Notes Inspection

The groundwater samples came from a collection event on February 25, 2021. RemVēr reviewed the field notes as part of this DUSR.

Laboratory Report Inspection

E/TA produced an SDG report #480-181451 (dated 8-Mar-21). The SDG report had the required data and information.

Chain of Custody (COC) Evaluation

NYSDEC/GES produced a COC for the referenced fieldwork: SDG: #480-181451—single, two-page COC; the laboratory noted no issues at the time of sample acceptance.

Sample Preservation & Holding Time Evaluation

E/TA received a cooler with samples on 2/25/2021 @16:27 PM (designated as SDG-#480-181451). The temperature of the cooler at receipt was 2.7ºC. The samples arrived in good condition, properly preserved, and where necessary under ice. Field staff and laboratory met the holding times and preservation requirements.

Sample Preparation & Analysis

Sample preparation for organic and inorganic analyses were within acceptable parameters with no exceptions. Additionally, the laboratory reported no analytical issues other than the QC issues noted below.

Detection Limits

Analytical detection limits (DLs) were acceptable for all analytes causing no QA issues other than those noted below:

- If an analyte was below the method detection limit (MDL), then a “U” flag was set to indicate non-detection (undetected).

- If an analyte (or Tentatively Identified Compounds [TICs]) was above the method detection limit (MDL) but below the reporting limit (RL), then a UJ flag was set to indicate a qualified non-detection.
- If an analyte (or TIC) was detected in a laboratory Method Blank or field Trip Blank and a sample, then it was flagged with a B and J to indicate an approximate result.

Calibration Standards and Continuing Calibration Verification (CCV)

Calibration standards (external or internal) were acceptable for all methods and analytes. CCVs were acceptable in the SDG for all methods and analytes with no exceptions.

- *Method 6010C*—the low-level continuing calibration verification (CCVL 480-570873/25) recovered above the upper control limit (>UCL) for Total Iron. The associated samples were either <RL for Iron or contained it at a concentration >10X that found in the CCVL, requiring no re-analysis or flag.

Blank Evaluation

SDG #480-181451 had Method Blanks (MBs) for each method, which were acceptable (no detectable analytic results greater than the RL), except for:

- *Method 6010*—Manganese was detected above the MDL but below the RL. If the element was not detected, then it received a UJ flag; if it was detected then the result received a J B flag.

Laboratory Control Samples (LCS)

The various method LCS' (LCS & LCS duplicates [LCSD]) were within acceptable control ranges and relative percent differences (RPDs) for their particular analyses in SDG 480-181451.

Surrogates and Isotope Dilution

Surrogates added to a sample allow testing of preparatory and instrument behavior resulting in recoveries within appropriate method ranges for the analytes. Surrogates behaved in this SDG within acceptable performance criteria. Isotope Dilution Analytes (IDA) also not required for these analytes.

Site-Specific Matrix Spikes and Matrix Spike Duplicates

The matrix spike/matrix spike duplicate (MS/MSD) runs for all analyses met the QA criteria in SDG 480-181451 with the following exception:

- *Method 8260*—1,1,1-Trichloroethane matrix spike recoveries were beyond the UCL with possible high bias. Therefore, either a UJ+ or J+ qualifier flag was set for this analyte in all samples.
- *Method 6010*—Calcium and Magnesium were present in the original sample at 4-times greater than the matrix spike concentration; therefore, control limits are not applicable. No qualifier flag set.
- *Method 6010*—Potassium matrix spike recoveries were beyond the UCL with possible high bias. Therefore, either a UJ+ or J+ qualifier flag was set for this analyte in all samples.

Duplicates

The analytical Method Duplicates met their RPD performance criteria. GES submitted one field replicate sample:

- #–12 (Dup-001) was a replicate of #–2 (TW-6)—the laboratory performed analyses for VOCs, Total Metals, Hexavalent Chromium, and Mercury. All analytes met the RPD performance criteria of <20% except for Iron and Lead.

RemVēr flagged (UJ or J) those analytes (Iron and Lead) beyond performance criteria only in the replicate sample pair.

Tentatively Identified Compounds (TICs)

This SDG had analysis of TICs; no samples had detections.

Sample Result and Usability Evaluation

Due to certain sample issues or laboratory performance, some results were qualified; however, the data are usable. No data received an R (rejected) flag.

DQA Detail Worksheet for SDG #480-181451

BLANKS	>RL?	Compounds	Notes
VOC (8260)	No	None	No Comment
Metals (6010)	No	All Others	No Comment
	MDL>[X]<RL	Mn	No flag, if >RL then JB
Mercury (7470)	No	None	No Comment
Hex. Chrome (7196)	No	None	No Comment

LCS	SV <10%	Low Bias > 10% & < LCL	High Bias >UCL	Compound(s)	Notes
VOC (8260)	—	—	—	—	No Comment
Metals (6010)	—	—	—	—	No Comment
Mercury (7470)	—	—	—	—	No Comment
Hex. Chrome (7196)	—	—	—	—	No Comment

SURROGATES	SV <10%	> 10% & < LCL	>UCL	Compound(s)	Notes
VOC (8260)	—	—	—	—	No Comment

MS/MSDs	SV <10%	Low Bias > 10% & < LCL	High Bias >UCL	QC Source	RPDs	Notes
VOC (8260)	—	—	—	#-2	—	No Comment
111-TCA	—	—	X	#-2	—	Flag UJ+ or J+
Metals (6010)	—	—	—	#-2	—	No Comment
Potassium	—	—	X	#-2	—	Flag UJ+ or J+
Mercury (7470)	—	—	—	#-2	—	No Comment
Hex. Chrome (7196)	—	—	—	#-2	—	No Comment

FIELD DUPLICATES RPDs	QC Source	Soil RPD > 50%	Water RPD > 20%	Compounds	Notes
#-12 Dup-001	#-2 TW-6	N/A	X	Fe & Pb	No Flag
—	—	—	—	—	Flag UJ / J
LAB DUPLICATES					
All Methods	Batch	N/A	—	As listed	No Comment

Reasonable Confidence Achieved ☐ Y ☐ N—Not Applicable
Significant QC Variances Noted ☒ Y ☐ N Requested Reporting Limits Achieved ☒ Y ☐ N
Preservation Requirements Met ☒ Y ☐ N Holding Time Requirements Met ☒ Y ☐ N

Abbreviations:
RL = Reporting Limit LCS = Laboratory Control Sample SV = Significant QC Variance
RPD = Relative Percent Difference LCL= RCP Lower Control Limit UCL= RCP Upper Control Limit
VOCs = Volatile Organic Compounds SVOCs = Semi-volatile Organic Compounds Pest = Pesticides
EPH = Extractable Petroleum Hydrocarbons VPH = Volatile Petroleum Hydrocarbons ETPH = EPH-Total
PCBs = Polychlorinated Biphenyls N/A = Not Applicable N/C = Not Collected -- = nothing to report
Notes: * Typical lab contaminants, not site-related

DQA Non-Conformance Summary Worksheet for SDG #480-181451

Only Flagged Results Shown Below

Sample Number(s)	Compound(s)	QC Non-Conformance	% Recovery	% RPD †	High or Low Bias ‡	Comments
ALL	All	If Non-detect				Flag U
	All	MDL>result<RDL	—	—	—	Validator Flag UJ Interpreted Flag U
	111-TCA	MS/MSD	>UCL	—	Hi	Flag UJ+ or J+
	K	MS/MSD	>UCL	—	Hi	Flag UJ+ or J+
	Mn	In Method Blank	If result <RDL If result >RDL			Flag UJ Flag J B
#-12 replicate of #-2	Fe & Pb	Duplicate Field Precision	>UCL	—	—	Flag UJ or J

Notes: † RPD—Relative Percent Difference

‡ Bias High—Reported result may be lower, Reporting Limit (RL) is acceptable as reported. Bias Low—Reported results may be higher, RL may be higher than reported.

Attachment 4. Data Usability Sub-Report for SDG #480-181501

Detailed Quality Review

Field Notes Review

	Y	N	NA	COMMENTS
Sampling notes	☒	☐	☐	
Field meteorological data	☐	☐	☒	No review required under QAPP
Associated sampling location and plan included	☐	☒	☐	See RAP/QAPP
Associated drilling logs available, reviewed	☐	☐	☒	No review required under QAPP
Identification of QC samples in notes	☒	☐	☐	Sample IDs
Sampling instrument decontamination records	☐	☐	☒	No review required under QAPP
Sampling instrument calibration logs	☐	☐	☒	No review required under QAPP
Chain of custody included	☒	☐	☐	With analytical report
Notes include communication logs	☐	☒	☐	
Any corrective action (CA) reports	☐	☒	☐	If so, CA documentation of results required.
Any deviation from methods noted? If so, explain	☐	☒	☐	None
Any electronic data deliverables	☐	☒	☐	None
Sampling Report (by Field Team Leader)	☒	☐	☐	Field Notes

Lab Report Contents (Test America SDG Reports: #480-181501)

☒ SDG Narrative
☒ Contract Lab Sample Information Sheets
☒ Data Package Summary Forms
☒ Chain-of-Custody (COC) Forms
☒ Test Results (no tentatively identified compounds [TICs])
☒ Calibration standards
☒ Surrogate recoveries
☒ Blank results
☒ Spike recoveries
☒ Duplicate results
☒ Confirmation (lab check/QC) samples
☒ Internal standard area & retention time summary
☒ Chromatograms
☒ Raw data files
☒ Other specific information

Is the data package complete as defined under the requirements for the NYSDEC ASP Category B?		
Laboratory Report	**Complete (Y/N)**	**Comments**
480-181501	Y	No

Sample Preservation Requirements & Holding Times Met?			
Laboratory Report	**Hold Times (Y/N)**	**Preservation (Y/N)**	**Exception Comment**
480-181501	Y	Y	None

Do the QC data fall within the protocol required limits and specifications?
(1) blanks, (2) instrument tunings, (3) calibration standards, (4) calibration verifications, (5) surrogate recoveries/ISD, (6) spike recoveries, (7) replicate analyses, (8) laboratory controls, (9) and sample data

SDG	1	2	3	4	5	6	7	8	9
480-181501	☒	☐	☒	☒	☐	☒	☐	☐	☒

The narrative section, below, discusses these deficiencies in detail, see Attachment 1 as well.

Were the data generated using established and agreed upon analytical protocols?		
Laboratory Report	**Protocols (Y/N)**	**Exception Comment**
480-181501	Y	No

Do the raw data confirm the results provided in the data summary sheets and quality control verification forms?		
Laboratory Report	**Confirmation (Y/N)**	**Exception Comment**
480-181501	Y	No

Were correct data qualifiers used and are they consistent with the most current guidance?		
Laboratory Report	**Qualifiers (Y/N)**	**Comment**
480-181501	Y	The laboratory generally applied appropriate qualifiers.

Were quality control (QC) exceedances specifically noted in this DUSR and the corresponding QC summary sheets from the data packages referenced?		
Laboratory Report	**QC Exceedances Documented (Y/N)**	**Comment**
480-181501	Y	Data qualifications applied as described below

Data Quality and Usability Narrative

Field Notes Inspection

The groundwater samples came from a collection event February 25, 2021. RemVēr reviewed the field notes as part of this DUSR.

Laboratory Report Inspection

E/TA produced an SDG report #480-181501 (dated 10-Mar-21). The SDG report had the required data and information.

Chain of Custody (COC) Evaluation

NYSDEC/GES produced a COC for the referenced fieldwork: SDG: #480-181501—single, one-page COC. The laboratory noted no issues at the time of sample acceptance.

Sample Preservation & Holding Time Evaluation

Laboratory received a cooler with samples on 2/26/2021 @ 16:20 PM (designated as SDG-#480-181501). The temperature of the cooler(s) at receipt was 3.1ºC. The samples arrived in good condition, properly preserved, and where necessary under ice. Holding times and preservation requirements were met.

Sample Preparation & Analyses

Sample preparation for organic and inorganic analyses were within acceptable parameters with no exceptions other than:

- *Method 6010*—The Serial Dilution for Potassium in Batch 571631 had QC results beyond limits, however, the Post Digestion Spike was compliant; therefore, the laboratory applied no corrective action. In contrast, the Post-digestion Spike for Sodium in Batch 571631 had QC results beyond control limits, however, the Serial Dilution was compliant; therefore, the laboratory applied no corrective action. Such results are likely due to sample matrix but required no quality flag as one or the other (SD or PDS) were compliant.

Additionally, the laboratory reported no analytical issues other than the QC issues noted below.

Detection Limits

Analytical detection limits (DLs) were acceptable for all analytes causing no QA issues other than those noted below:

- If an analyte was below the method detection limit (MDL), then a "U" flag was set to indicate non-detection (undetected).
- If an analyte (or Tentatively Identified Compounds [TICs]) was above the method detection limit (MDL) but below the reporting limit (RL), then a UJ flag was set to indicate a qualified non-detection.
- If an analyte (or TIC) was detected in a laboratory Method Blank or field Trip Blank and a sample, then it was flagged with a B and J to indicate an approximate result.
- If an analyte was above the RL and beyond the upper limit for an analyte the laboratory set an "E" flag. RemVēr set a "JE" flag to indicate an estimated detection.
- *Method(s) 8260C:* The results for the following samples received a "D" flag to indicate sample dilution.
    - Sample #-5 required dilution due to foaming while purging original sample resulting in the use of elevated RLs.
    - Samples #-6, -8, and -10 [including #-10 MS/MSD] required dilution to bring target analytes within the calibration range resulting in the use of elevated RLs.

Calibration Standards and Continuing Calibration Verification (CCV)

Calibration standards (external or internal) were acceptable for all analytes with the following exception(s):

- *Method 8260C*—continuing calibration blank (CCB #571485/29) contained Total Sodium above the RL. This impacted analysis of Samples #-2, -3, -4, -5, -6, -7, -8, -9, and -10; however, these samples either had no detectable Sodium or the concentrations were >10X that in the CCB, thus requiring no reanalysis nor qualifying flag.

CCVs were acceptable in the SDG for all methods and analytes, with the following exceptions for Method 8260:

- *Method 8260C*—Batch 570811 recoveries were above the upper control limit (>UCL) for Cyclohexane, although the samples (#-1 – #-8, and #-10) were non-detect for the analyte. RemVēr flagged the results as UJ or J.

Blank Evaluation

SDG #480-181501 had Method Blanks (MBs) for each method, which were acceptable (no detectable analytic results greater than the RL), except for:

- *Method 6010*—Batch 571305 had Manganese (Mn) detected above the MDL but below the RL. If the metal was not detected, then it received a UJ flag; if it was detected then the result received a J B flag.
- *Method 6010*— Batch 571631 had Potassium (K) detected above the MDL but below the RL. If the element was not detected, then it received a UJ flag; if it was detected then the result received a J B flag.

This sample group did not have a Trip Blank to provide field control for VOC analysis.

Laboratory Control Samples (LCS)

The various method LCS' (LCS & LCS duplicates [LCSD]) were within the acceptable control ranges and relative percent differences (RPDs) for their analyses in SDG 480-181501, with no exceptions.

Surrogates and Isotope Dilution

Surrogates added to a sample allow testing of preparatory and instrument behavior resulting in recoveries within appropriate method ranges for the analytes. Surrogates behaved in this SDG within acceptable performance criteria. Isotope Dilution Analytes (IDA) also not required for these analytes.

Site-Specific Matrix Spikes and Matrix Spike Duplicates

The matrix spike/matrix spike duplicate (MS/MSD) runs for all analyses met the QA criteria in SDG 480-181501 with the following exceptions:

- *Method 8260*—the MSD runs (Batch 570811) were beyond control limits for an analyte. Analyte recoveries >UCL with high bias included: 1,1-Dichloroethene (DCE), Carbon Tetrachloride (Tet), Cyclohexane, Dichlorodifluoromethane (DCDFM), Tetrachloroethene (PCE), and Trichloroethene (TCE). RemVēr flagged these analytes UJ+ or J+ as appropriate.
- *Method 8260*—the MS/MSD run (Batch 570811) had poor precision (RPD >criteria) for an analyte Bromomethane. RemVēr flagged these analytes UJ or J as appropriate.
- *Method 6010*—Calcium, Magnesium, and/or Sodium were present in the original sample at 4-times greater than the matrix spike concentration; therefore, control limits are not applicable. No qualifier flag set.

Duplicates

The analytical Method Duplicates met their RPD performance criteria. GES submitted a no field replicate sample set with this sample group.

Tentatively Identified Compounds (TICs)

This SDG had analysis of TICs, where one sample had detections:

- Sample #-9 had detections of seven tentatively identifiable compounds (1,2,4,5-Tetramethylbenzene, 1,3,5-Trimethylbenzene (Mesitylene), 2-Methyl Butane, 2-Methyl-Pentane, Cyclopentane, Methyl Cyclopentane, and N-Pentane). RemVēr flagged these results as "T", "J", and "N" as they were tentative, estimated detections with presumptive identifiable evidence.
- Sample #-6 also had detections of two unknowns. RemVēr flagged these results as "T" and "J" as they were tentative, estimated detections.

Sample Result and Usability Evaluation

Due to sampling issues or laboratory performance, RemVēr qualified certain results; however, the data are usable. No data received an R (rejected) flag.

DQA Detail Worksheet for SDG #480-181501

BLANKS	>RL?	Compounds	Notes
VOC (8260)	No	All	No Comment
Metals (6010)	No	All	No Comment
	MDL>[X]<RL	Mn or K	No flag, if >RL then JB
Mercury (7470)	No	Mercury	No Comment

LCS	SV <10%	Low Bias > 10% & < LCL	High Bias >UCL	Compound(s)	Notes
VOC (8260)	—	—	—	All	No Comment
Metals (6010)	—	—	—	All	No Comment
Mercury (7470)	—	—	—	Mercury	No Comment

SURROGATES / IDA	SV <10%	> 10% & < LCL	>UCL	Compound(s)	Notes
VOC (8260)	—	—	—	—	No Comment
Metals (6010)	—	—	—	—	No Comment
Mercury (7470)	—	—	—	—	No Comment

MS/MSDs	SV <10%	Low Bias > 10% & < LCL	High Bias >UCL	QC Source	RPDs	Notes
VOC (8260)	—	—	—	#-11	—	No Comment
1,1-DCE, Tet, Cyclohexane, DCDFM, PCE, & TCE	—	—	X	#-11	—	Flag UJ+ or J+
Bromomethane	—	—	—	#-11	>UCL	Flag UJ or J
Metals (6010)	—	—	—	Batch	—	No Comment
Mercury (7470)	—	—	—	Batch	—	No Comment

FIELD DUPLICATES RPDs	QC Source	Soil RPD > 50%	Water RPD > 20%	Compounds	Notes
—	—	N/A	—	—	—
		N/A	—	—	
LAB DUPLICATES					
All Methods	Batch	N/A	—	As listed	None

Reasonable Confidence Achieved ☐ Y ☐ N—Not Applicable
Significant QC Variances Noted ☒ Y ☐ N
Requested Reporting Limits Achieved ☒ Y ☐ N
Preservation Requirements Met ☒ Y ☐ N
Holding Time Requirements Met ☒ Y ☐ N

Abbreviations:
RL = Reporting Limit LCS = Laboratory Control Sample SV = Significant QC Variance
RPD = Relative Percent Difference LCL= RCP Lower Control Limit UCL= RCP Upper Control Limit
VOCs = Volatile Organic Compounds SVOCs = Semi-volatile Organic Compounds Pest = Pesticides
EPH = Extractable Petroleum Hydrocarbons VPH = Volatile Petroleum Hydrocarbons ETPH = EPH-Total
PCBs = Polychlorinated Biphenyls N/A = Not Applicable N/C = Not Collected -- = nothing to report
Notes: * Typical lab contaminants, not site-related

DQA Non-Conformance Summary Worksheet for SDG #480-181501

Only Flagged Results Shown Below

Sample Number(s)	Compound(s)	QC Non-Conformance	% Recovery	% RPD †	High or Low Bias ‡	Comments
All	Any	Analyte Not Detected				Flag U
	Any	MDL > result < RDL	—	—	—	Validator Flag UJ Interpreted Flag U
	Any	Beyond Calib. ("E")	—	—	—	Flag J E
	Mn or K	In Method Blanks	If result <RDL If result >RDL			Flag UJ Flag J B
	1,1-DCE, Tet, Cyclohexane, DCDFM, PCE, & TCE	MS/MSD	>UCL	—	High	Flag UJ+ or J+
	Bromomethane	MS/MSD	—	>UCL	—	Flag UJ or J
#-5, 6, 8, & 10	VOCs	Calibration (Dilu.)	—	—	—	Flag D
#-1 – 8 & #-10	Cyclohexane	CCV	>UCL	—	—	Flag UJ / J
#-9	Two Unknowns	TIC				Flag TJ
	1,2,4,5-Tetramethylbenzene, Mesitylene, 2-Methyl Butane, 2-Methyl-Pentane, Cyclopentane, Methyl Cyclopentane, & Pentane	TIC				Flag TJN

Notes: † RPD—Relative Percent Difference

‡ Bias High—Reported result may be lower, Reporting Limit (RL) is acceptable as reported. Bias Low—Reported results may be higher, RL may be higher than reported.