

Operation, Maintenance and Monitoring Report

June 1, 2019 – May 31, 2020

**Northeast Alloys and Metals, Inc.
Site 633045**

**Work Assignment No.
D009803-21**

Prepared for:

SUPERFUND STANDBY PROGRAM
New York State
Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by:

AECOM USA, Inc.
40 British American Boulevard
Latham, New York 12110

November 2020



AECOM USA, Inc.
40 British American Boulevard
Latham, NY 12110

518.951.2200 tel
518.951.2300 fax

November 19, 2020

Mr. Payson Long
Project Manager, Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, Albany, NY 12233-7011

**Subject: Northeast Alloys & Metals, 2145 Dwyer Ave, Utica, NY – Site #633045
2019-2020 Operation, Maintenance and Monitoring Report**

Dear Mr. Long,

This summary report describes the operation, monitoring and maintenance (OM&M) of the remedial system at the subject site in the City of Utica, New York, for the period **June 1, 2019 – May 31, 2020**.

AECOM has provided the NYSDEC with electronic copies of reports submitted to the Oneida County Sewer District (OCSD). The reports presented discharge quantities for two 6-month periods ending in November 2019 and May 2020, and provided analytical results for effluent water samples representing each of those periods.

Included in this document are the Eurofins Spectrum Analytical and Eurofins TestAmerica laboratory reports for the two sampling events, conducted on November 5, 2019 and April 22, 2020. Total VOCs in the influent were 88.47 µg/L and 28.08 µg/L, respectively; the effluent contained 40.71 µg/L and 71.22 µg/L of total volatile organic compounds (VOCs), respectively. The dominant contaminant in the influent and effluent samples was cis-1,2-dichloroethene (cis-1,2-DCE). Compounds present at lower concentrations included trichloroethene (TCE), 1,1-dichloroethane (DCA), 1,2-dichlorobenzene, acetone, benzene, chlorobenzene, ethylbenzene, styrene, xylenes, trans-1,2-DCE, and vinyl chloride. As reported to the OCSD, all effluent limitations were met in both sampling events for VOCs as well as for metals.

Below is a list of total VOCs in the influent and effluent water for samples collected on the dates shown:

Date	Total VOC Result (µg/L)		Date	Total VOC Result (µg/L)	
	Influent	Effluent		Influent	Effluent
5/3/05	175	25	10/12/05	323	69
4/6/06	84	21	10/5/06	83	15
4/7/07	45	17	10/8/07	110	5.5
4/8/08	96	34.8	10/13/08	237	16
4/13/09	80	26	10/29/09	233	77.5
4/27/10	69.6	32.2	10/14/10	84	22
4/13/11	142.8	30.7	10/12/11	97.5	28.3
5/3/12	63.8	20	9/25/12	154.4	94.7
4/22/13	114.3	43.5	11/4/13	88.2	15
4/9/14	111.1	34.3	10/30/14	59.4	19
4/23/15	51.7	18	10/20/15	83.9	21

Date	Total VOC Result (µg/L)		Date	Total VOC Result (µg/L)	
	Influent	Effluent		Influent	Effluent
5/19/16	136.7	78.5	11/9/16	87.4	81.6
4/18/17	31.7	11	10/12/17	66.4	7.5
5/1/18	38.8	24.5	10/30/18	147.58	21.8
4/30/19	30.59	16.4	11/5/19	88.47	40.71
4/22/20	28.08	71.22			

Either AECOM or the NYSDEC's call-out contractor, Precision Environmental Services (PES), performed ten site inspections in the reporting period, including the semi-annual sampling events on November 5, 2019 and April 22, 2020. Notable maintenance activities included:

- **June 5, 2019** – On-site to reset ProControl unit modem and remove plastic drums adjacent to treatment building
- **July 31, 2019** – On-site to perform brush and small tree removal around the enclosure, trench clean-outs and wells
- **November 5, 2019** – On-site to collect semi-annual samples, winterize the system, and place lock back in lock chain on entry gate
- **December 11, 2019** – On-site to reset the modem following communication issues
- **January 9, 2020** – On-site to reset the modem following communication issues
- **January 27, 2020** – On-site to remove the ProControl modem and install a temporary modem during upgrade to 4G network to reduce communication problems. Installed new antenna on building
- **February 4, 2020** – On-site to remove temporary modem and install the upgraded ProControl modem
- **February 24, 2020** – AECOM and PES performed a site walk in order for PES to temporarily take over site O&M and sampling duties
- **March 18, 2020** – On-site to reset the modem following communication issues
- **April 22, 2020** – PES on-site to collect semi-annual samples, install 4 new filters for blowers, post new NYSDEC COVID-19 documentation and posters, remove insulation on vents and unplug the heater.

Since system performance can be monitored daily, flow data has become more accurate and is reported on a monthly basis below:

Period	Discharge (gallons)
June 2019	205,392
July 2019	143,111
August 2019	208,360
September 2019	119,468
October 2019	356,016
November 2019	359,437
December 2019	234,101
January 2020	153,064
February 2020	199,279

March 2020	227,706
April 2020	137,429
May 2020	147,666
Total Discharge 6/1/19 - 5/31/20	2,491,029

During the 12-month reporting period, 2,491,029 gallons of water were discharged to the OCSD over approximately 87 drawdown/recovery cycles – averaging one cycle every 4.1 days. Periods of drawdown generally ranged from 5 to 10 hours, with flows of approximately 27-37 gallons per minute (gpm) for each pump.

Since 11/29/04, the aeration manhole has treated and discharged more than 28.7 million gallons of water.

AECOM annual reports will continue to cover the period of June 1 through May 31, consistent with the designated Oneida County reporting period.

Please feel free to contact me at (518) 951-2373 if you have any questions regarding this report or the operation of the treatment system.

Sincerely,

AECOM USA, Inc.



Lindsay Mitchell, P.E.
Project Manager
lindsay.mitchell@aecom.com

Report Date:
19-Nov-19 10:08

Laboratory Report **SC56683**

AECOM Environment
40 British American Boulevard
Latham, NY 12110
Attn: Lindsay Mitchell

Project: NEAM - Utica, NY
Project #: 60284002-1

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

New York # 11393
USDA # P330-15-00375

Authorized by:

Dawn Wojcik
Laboratory Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 15 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC56683
Project: NEAM - Utica, NY
Project Number: 60284002-1

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC56683-01	NE-EFF 110519	Ground Water	05-Nov-19 10:30	06-Nov-19 11:00
SC56683-02	NE-INF 110519	Ground Water	05-Nov-19 10:40	06-Nov-19 11:00
SC56683-03	TB 110519	Trip Blank	05-Nov-19 00:00	06-Nov-19 11:00

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 4.8 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client: AECOM Environment - Latham, NY
Project: NEAM - Utica, NY / 60284002-1
Work Order: SC56683
Sample(s) received on: 11/6/2019

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☒	☐	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC56683-01

Client ID: NE-EFF 110519

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethane	0.26	J	1.00	ug/l	EPA 624.1
1,2-Dichlorobenzene	0.089	J	1.00	ug/l	EPA 624.1
Acetone	3.83	J	5.00	ug/l	EPA 624.1
Benzene	0.27	J	1.00	ug/l	EPA 624.1
Chlorobenzene	0.41	J	1.00	ug/l	EPA 624.1
cis-1,2-Dichloroethene	31.2		1.00	ug/l	EPA 624.1
Ethylbenzene	0.19	J	1.00	ug/l	EPA 624.1
m+p-Xylene	0.80	J	1.00	ug/l	EPA 624.1
o-Xylene	0.47	J	1.00	ug/l	EPA 624.1
Toluene	0.31	J	1.00	ug/l	EPA 624.1
trans-1,2-Dichloroethene	0.15	J	1.00	ug/l	EPA 624.1
Trichloroethene	1.91		1.00	ug/l	EPA 624.1
Vinyl Chloride	0.82	J	1.00	ug/l	EPA 624.1

Lab ID: SC56683-02

Client ID: NE-INF 110519

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1-Dichloroethane	0.61	J	1.00	ug/l	EPA 624.1
1,2-Dichlorobenzene	0.17	J	1.00	ug/l	EPA 624.1
Acetone	4.28	J	5.00	ug/l	EPA 624.1
Benzene	0.76	J	1.00	ug/l	EPA 624.1
Chlorobenzene	0.79	J	1.00	ug/l	EPA 624.1
cis-1,2-Dichloroethene	59.5		1.00	ug/l	EPA 624.1
Ethylbenzene	0.66	J	1.00	ug/l	EPA 624.1
m+p-Xylene	2.90		1.00	ug/l	EPA 624.1
o-Xylene	1.37		1.00	ug/l	EPA 624.1
Styrene	0.062	J	1.00	ug/l	EPA 624.1
Toluene	0.95	J	1.00	ug/l	EPA 624.1
trans-1,2-Dichloroethene	0.60	J	1.00	ug/l	EPA 624.1
Trichloroethene	6.06		1.00	ug/l	EPA 624.1
Vinyl Chloride	9.76		1.00	ug/l	EPA 624.1

Lab ID: SC56683-03

Client ID: TB 110519

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Acetone	2.03	J	5.00	ug/l	EPA 624.1
Chloroform	0.19	J	1.00	ug/l	EPA 624.1

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

NE-EFF 110519

SC56683-01

Client Project #

60284002-1

Matrix

Ground Water

Collection Date/Time

05-Nov-19 10:30

Received

06-Nov-19

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Subcontracted AnalysesPrepared by method METHOD*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	EPA 245.1	09-Nov-19 03:07	11-Nov-19 07:57	10670	31105714	
-----------	---------	-----------	--	------	---------	----------	---	-----------	--------------------	--------------------	-------	----------	--

Subcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

71-55-6	1,1,1-Trichloroethane	< 1.00		ug/l	1.00	0.10	1	EPA 624.1	12-Nov-19 06:48	12-Nov-19 06:48	10670	1193152A	
79-34-5	1,1,2,2-Tetrachloroethane	< 1.00		ug/l	1.00	0.050	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	0.26	J	ug/l	1.00	0.10	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	0.089	J	ug/l	1.00	0.070	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.00		ug/l	1.00	0.060	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 50.0		ug/l	50.0	11.0	1	"	"	"	"	"	
78-93-3	2-Butanone	< 2.00		ug/l	2.00	0.30	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 2.00		ug/l	2.00	0.30	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 2.00		ug/l	2.00	0.20	1	"	"	"	"	"	
67-64-1	Acetone	3.83	J	ug/l	5.00	2.00	1	"	"	"	"	"	
71-43-2	Benzene	0.27	J	ug/l	1.00	0.050	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
56-23-5	Carbon Tetrachloride	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
108-90-7	Chlorobenzene	0.41	J	ug/l	1.00	0.10	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.00		ug/l	1.00	0.30	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	31.2		ug/l	1.00	0.10	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 1.00		ug/l	1.00	0.080	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
100-41-4	Ethylbenzene	0.19	J	ug/l	1.00	0.10	1	"	"	"	"	"	
179601-23-1	m+p-Xylene	0.80	J	ug/l	1.00	0.10	1	"	"	"	"	"	
1634-04-4	Methyl Tertiary Butyl Ether	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
75-09-2	Methylene Chloride	< 1.00		ug/l	1.00	0.30	1	"	"	"	"	"	
95-47-6	o-Xylene	0.47	J	ug/l	1.00	0.080	1	"	"	"	"	"	
100-42-5	Styrene	< 1.00		ug/l	1.00	0.050	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
108-88-3	Toluene	0.31	J	ug/l	1.00	0.050	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	0.15	J	ug/l	1.00	0.10	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
79-01-6	Trichloroethene	1.91		ug/l	1.00	0.20	1	"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

NE-EFF 110519

SC56683-01

Client Project #

60284002-1

Matrix

Ground Water

Collection Date/Time

05-Nov-19 10:30

Received

06-Nov-19

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

75-69-4	Trichlorofluoromethane	< 1.00		ug/l	1.00	0.10	1	EPA 624.1	12-Nov-19 06:48	12-Nov-19 06:48	10670	1193152A	
75-01-4	Vinyl Chloride	0.82	J	ug/l	1.00	0.30	1	"	"	"	"	"	

Surrogate recoveries:

17060-07-0	1,2-Dichloroethane-d4	108			60-140 %			"	"	"	"	"	
460-00-4	4-Bromofluorobenzene	92			60-140 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	109			60-140 %			"	"	"	"	"	
2037-26-5	Toluene-d8	96			60-140 %			"	"	"	"	"	

Prepared by method SW-846 3005A*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

7440-02-0	Nickel	< 0.0100		mg/l	0.0100	0.0021	1	SW-846 6010C	11-Nov-19 04:50	11-Nov-19 17:59	10670	31314044	
-----------	--------	----------	--	------	--------	--------	---	--------------	--------------------	--------------------	-------	----------	--

Sample Identification

NE-INF 110519

SC56683-02

Client Project #

60284002-1

Matrix

Ground Water

Collection Date/Time

05-Nov-19 10:40

Received

06-Nov-19

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

71-55-6	1,1,1-Trichloroethane	< 1.00		ug/l	1.00	0.10	1	EPA 624.1	12-Nov-19 06:25	12-Nov-19 06:25	10670	1193152A	
79-34-5	1,1,2,2-Tetrachloroethane	< 1.00		ug/l	1.00	0.050	1	"	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	"
75-34-3	1,1-Dichloroethane	0.61	J	ug/l	1.00	0.10	1	"	"	"	"	"	"
75-35-4	1,1-Dichloroethene	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	0.17	J	ug/l	1.00	0.070	1	"	"	"	"	"	"
107-06-2	1,2-Dichloroethane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	"
78-87-5	1,2-Dichloropropane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	< 1.00		ug/l	1.00	0.060	1	"	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
123-91-1	1,4-Dioxane	< 50.0		ug/l	50.0	11.0	1	"	"	"	"	"	"
78-93-3	2-Butanone	< 2.00		ug/l	2.00	0.30	1	"	"	"	"	"	"
591-78-6	2-Hexanone	< 2.00		ug/l	2.00	0.30	1	"	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone	< 2.00		ug/l	2.00	0.20	1	"	"	"	"	"	"
67-64-1	Acetone	4.28	J	ug/l	5.00	2.00	1	"	"	"	"	"	"
71-43-2	Benzene	0.76	J	ug/l	1.00	0.050	1	"	"	"	"	"	"
75-27-4	Bromodichloromethane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	"
75-25-2	Bromoform	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
74-83-9	Bromomethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
75-15-0	Carbon Disulfide	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	"
56-23-5	Carbon Tetrachloride	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
108-90-7	Chlorobenzene	0.79	J	ug/l	1.00	0.10	1	"	"	"	"	"	"
75-00-3	Chloroethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
67-66-3	Chloroform	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
74-87-3	Chloromethane	< 1.00		ug/l	1.00	0.30	1	"	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	59.5		ug/l	1.00	0.10	1	"	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	< 1.00		ug/l	1.00	0.080	1	"	"	"	"	"	"
124-48-1	Dibromochloromethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
74-95-3	Dibromomethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
100-41-4	Ethylbenzene	0.66	J	ug/l	1.00	0.10	1	"	"	"	"	"	"
179601-23-1	m+p-Xylene	2.90		ug/l	1.00	0.10	1	"	"	"	"	"	"
1634-04-4	Methyl Tertiary Butyl Ether	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
75-09-2	Methylene Chloride	< 1.00		ug/l	1.00	0.30	1	"	"	"	"	"	"
95-47-6	o-Xylene	1.37		ug/l	1.00	0.080	1	"	"	"	"	"	"
100-42-5	Styrene	0.062	J	ug/l	1.00	0.050	1	"	"	"	"	"	"
127-18-4	Tetrachloroethene	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	"
108-88-3	Toluene	0.95	J	ug/l	1.00	0.050	1	"	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	0.60	J	ug/l	1.00	0.10	1	"	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
79-01-6	Trichloroethene	6.06		ug/l	1.00	0.20	1	"	"	"	"	"	"
75-69-4	Trichlorofluoromethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	"
75-01-4	Vinyl Chloride	9.76		ug/l	1.00	0.30	1	"	"	"	"	"	"

Surrogate recoveries:

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

NE-INF 110519

SC56683-02

Client Project #

60284002-1

Matrix

Ground Water

Collection Date/Time

05-Nov-19 10:40

Received

06-Nov-19

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

17060-07-0	1,2-Dichloroethane-d4	109			60-140 %			EPA 624.1	12-Nov-19	-Nov-19 06:06:25	10670	1193152A	
460-00-4	4-Bromofluorobenzene	93			60-140 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	109			60-140 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	95			60-140 %			"	"	"	"	"	"

Sample Identification

TB 110519

SC56683-03

Client Project #

60284002-1

Matrix

Trip Blank

Collection Date/Time

05-Nov-19 00:00

Received

06-Nov-19

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

71-55-6	1,1,1-Trichloroethane	< 1.00		ug/l	1.00	0.10	1	EPA 624.1	12-Nov-19 06:02	12-Nov-19 06:02	10670	1193152A	
79-34-5	1,1,2,2-Tetrachloroethane	< 1.00		ug/l	1.00	0.050	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.00		ug/l	1.00	0.070	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.00		ug/l	1.00	0.060	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 50.0		ug/l	50.0	11.0	1	"	"	"	"	"	
78-93-3	2-Butanone	< 2.00		ug/l	2.00	0.30	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 2.00		ug/l	2.00	0.30	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone	< 2.00		ug/l	2.00	0.20	1	"	"	"	"	"	
67-64-1	Acetone	2.03	J	ug/l	5.00	2.00	1	"	"	"	"	"	
71-43-2	Benzene	< 1.00		ug/l	1.00	0.050	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
75-15-0	Carbon Disulfide	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
56-23-5	Carbon Tetrachloride	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
75-00-3	Chloroethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
67-66-3	Chloroform	0.19	J	ug/l	1.00	0.10	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.00		ug/l	1.00	0.30	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 1.00		ug/l	1.00	0.080	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
179601-23-1	m+p-Xylene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
1634-04-4	Methyl Tertiary Butyl Ether	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
75-09-2	Methylene Chloride	< 1.00		ug/l	1.00	0.30	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.00		ug/l	1.00	0.080	1	"	"	"	"	"	
100-42-5	Styrene	< 1.00		ug/l	1.00	0.050	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
108-88-3	Toluene	< 1.00		ug/l	1.00	0.050	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.00		ug/l	1.00	0.20	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.00		ug/l	1.00	0.10	1	"	"	"	"	"	
75-01-4	Vinyl Chloride	< 1.00		ug/l	1.00	0.30	1	"	"	"	"	"	

Surrogate recoveries:

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

TB 110519

SC56683-03

Client Project #

60284002-1

Matrix

Trip Blank

Collection Date/Time

05-Nov-19 00:00

Received

06-Nov-19

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

Subcontracted AnalysesSubcontracted Analyses*Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670*

17060-07-0	1,2-Dichloroethane-d4	109			60-140 %			EPA 624.1	12-Nov-19	-Nov-19 06:06:02	10670	1193152A	
460-00-4	4-Bromofluorobenzene	93			60-140 %			"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	111			60-140 %			"	"	"	"	"	"
2037-26-5	Toluene-d8	97			60-140 %			"	"	"	"	"	"

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>EPA 245.1</u>										
Batch 193110571402 - METHOD										
<u>Blank (P31171BBB)</u>	Prepared: 09-Nov-19 Analyzed: 11-Nov-19									
Mercury	< 0.00020		mg/l	0.00020				-		
<u>LCS (P31171BQQ)</u>	Prepared: 09-Nov-19 Analyzed: 11-Nov-19									
Mercury	0.0011		mg/l	0.00020	0.0010		110	85-115		
<u>EPA 624.1</u>										
Batch U193152AA - General Preparation										
<u>LCS (QSTD020Q)</u>	Prepared & Analyzed: 11-Nov-19									
1,3-Dichlorobenzene	20.3		ug/l	1.00	20.0		102	70-130		
Carbon Tetrachloride	21.1		ug/l	1.00	20.0		106	70-130		
Carbon Disulfide	21.8		ug/l	1.00	20.0		109	60-140		
Bromomethane	19.1		ug/l	1.00	20.0		96	15-185		
Bromoform	21.5		ug/l	1.00	20.0		108	70-130		
Bromodichloromethane	21.7		ug/l	1.00	20.0		108	65-135		
Benzene	21.9		ug/l	1.00	20.0		110	65-135		
Acetone	140		ug/l	5.00	150		94	60-140		
4-Methyl-2-pentanone	91.6		ug/l	2.00	100		92	60-140		
1,1,1-Trichloroethane	21.8		ug/l	1.00	20.0		109	70-130		
Chlorobenzene	21.0		ug/l	1.00	20.0		105	65-135		
1,4-Dichlorobenzene	20.8		ug/l	1.00	20.0		104	65-135		
2-Hexanone	91.6		ug/l	2.00	100		92	60-140		
1,2-Dichloropropane	21.9		ug/l	1.00	20.0		109	35-165		
1,2-Dichloroethane	20.8		ug/l	1.00	20.0		104	70-130		
1,2-Dichlorobenzene	20.4		ug/l	1.00	20.0		102	65-135		
1,1-Dichloroethene	22.9		ug/l	1.00	20.0		115	50-150		
1,1-Dichloroethane	22.6		ug/l	1.00	20.0		113	70-130		
1,1,2-Trichloroethane	21.8		ug/l	1.00	20.0		109	70-130		
1,1,2,2-Tetrachloroethane	19.8		ug/l	1.00	20.0		99	60-140		
2-Butanone	144		ug/l	2.00	150		96	60-140		
Trichloroethene	21.8		ug/l	1.00	20.0		109	65-135		
Vinyl Chloride	20.3		ug/l	1.00	20.0		102	10-195		
1,4-Dioxane	483		ug/l	50.0	500		97	60-140		
Trichlorofluoromethane	19.6		ug/l	1.00	20.0		98	50-150		
Chloroethane	20.8		ug/l	1.00	20.0		104	40-160		
trans-1,3-Dichloropropene	19.3		ug/l	1.00	20.0		97	50-150		
trans-1,2-Dichloroethene	21.8		ug/l	1.00	20.0		109	70-130		
Toluene	21.3		ug/l	1.00	20.0		106	70-130		
Tetrachloroethene	21.5		ug/l	1.00	20.0		108	70-130		
Styrene	20.5		ug/l	1.00	20.0		103	60-140		
o-Xylene	19.5		ug/l	1.00	20.0		97	60-140		
Methylene Chloride	21.3		ug/l	1.00	20.0		107	60-140		
cis-1,2-Dichloroethene	22.8		ug/l	1.00	20.0		114	60-140		
Methyl Tertiary Butyl Ether	17.9		ug/l	1.00	20.0		89	60-140		
Chloroform	22.0		ug/l	1.00	20.0		110	70-135		
Chloromethane	20.0		ug/l	1.00	20.0		100	10-200		
cis-1,3-Dichloropropene	19.7		ug/l	1.00	20.0		99	25-175		
Dibromochloromethane	21.1		ug/l	1.00	20.0		106	70-135		
Ethylbenzene	21.2		ug/l	1.00	20.0		106	60-140		
m+p-Xylene	42.5		ug/l	1.00	40.0		106	60-140		
Dibromomethane	20.9		ug/l	1.00	20.0		104	60-140		
Surrogate: 4-Bromofluorobenzene	48.9		ug/l		50.0		98	60-140		
Surrogate: Toluene-d8	50.1		ug/l		50.0		100	60-140		

This laboratory report is not valid without an authorized signature on the cover page.

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>EPA 624.1</u>										
Batch U193152AA - General Preparation										
<u>LCS (QSTD020Q)</u>					<u>Prepared & Analyzed: 11-Nov-19</u>					
Surrogate: Dibromofluoromethane	50.9		ug/l		50.0		102	60-140		
Surrogate: 1,2-Dichloroethane-d4	50.7		ug/l		50.0		101	60-140		
<u>Blank (VBLKU26B)</u>					<u>Prepared & Analyzed: 11-Nov-19</u>					
2-Hexanone	< 2.00		ug/l	2.00				-		
4-Methyl-2-pentanone	< 2.00		ug/l	2.00				-		
Acetone	< 5.00		ug/l	5.00				-		
Benzene	< 1.00		ug/l	1.00				-		
Bromodichloromethane	< 1.00		ug/l	1.00				-		
Bromoform	< 1.00		ug/l	1.00				-		
Carbon Disulfide	< 1.00		ug/l	1.00				-		
Bromomethane	< 1.00		ug/l	1.00				-		
2-Butanone	< 2.00		ug/l	2.00				-		
1,1-Dichloroethane	< 1.00		ug/l	1.00				-		
Carbon Tetrachloride	< 1.00		ug/l	1.00				-		
1,4-Dioxane	< 50.0		ug/l	50.0				-		
1,4-Dichlorobenzene	< 1.00		ug/l	1.00				-		
1,3-Dichlorobenzene	< 1.00		ug/l	1.00				-		
1,2-Dichloropropane	< 1.00		ug/l	1.00				-		
1,2-Dichloroethane	< 1.00		ug/l	1.00				-		
1,1,1-Trichloroethane	< 1.00		ug/l	1.00				-		
1,1-Dichloroethene	< 1.00		ug/l	1.00				-		
1,1,2-Trichloroethane	< 1.00		ug/l	1.00				-		
1,1,2,2-Tetrachloroethane	< 1.00		ug/l	1.00				-		
Chlorobenzene	< 1.00		ug/l	1.00				-		
1,2-Dichlorobenzene	< 1.00		ug/l	1.00				-		
Methylene Chloride	< 1.00		ug/l	1.00				-		
Vinyl Chloride	< 1.00		ug/l	1.00				-		
Trichloroethene	< 1.00		ug/l	1.00				-		
trans-1,3-Dichloropropene	< 1.00		ug/l	1.00				-		
trans-1,2-Dichloroethene	< 1.00		ug/l	1.00				-		
Toluene	< 1.00		ug/l	1.00				-		
Tetrachloroethene	< 1.00		ug/l	1.00				-		
Trichlorofluoromethane	< 1.00		ug/l	1.00				-		
o-Xylene	< 1.00		ug/l	1.00				-		
Chloroethane	< 1.00		ug/l	1.00				-		
Methyl Tertiary Butyl Ether	< 1.00		ug/l	1.00				-		
m+p-Xylene	< 1.00		ug/l	1.00				-		
Ethylbenzene	< 1.00		ug/l	1.00				-		
Dibromomethane	< 1.00		ug/l	1.00				-		
Dibromochloromethane	< 1.00		ug/l	1.00				-		
cis-1,3-Dichloropropene	< 1.00		ug/l	1.00				-		
cis-1,2-Dichloroethene	< 1.00		ug/l	1.00				-		
Chloromethane	< 1.00		ug/l	1.00				-		
Chloroform	< 1.00		ug/l	1.00				-		
Styrene	< 1.00		ug/l	1.00				-		
Surrogate: 4-Bromofluorobenzene	48.0		ug/l		50.0		96	60-140		
Surrogate: Dibromofluoromethane	54.0		ug/l		50.0		108	60-140		
Surrogate: 1,2-Dichloroethane-d4	53.9		ug/l		50.0		108	60-140		
Surrogate: Toluene-d8	48.2		ug/l		50.0		96	60-140		

SW-846 6010C

This laboratory report is not valid without an authorized signature on the cover page.

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW-846 6010C</u>										
Batch 193131404401 - SW-846 3005A										
<u>Blank (P31304ABB)</u>					<u>Prepared & Analyzed: 11-Nov-19</u>					
Nickel	< 0.0100		mg/l	0.0100				-		
<u>LCS (P31304AQQ)</u>					<u>Prepared & Analyzed: 11-Nov-19</u>					
Nickel	2.17		mg/l	0.0100	2.02		107	80-120		

Notes and Definitions

J	Estimated value
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

☒ 11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

☐ 646 Camp Avenue
N. Kingstown, RI 02852
(401) 732-3400

All TAT's subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Special Handling:

☐ TAT - Date Needed: stand.

Invoice To: Same

Project No: 60284002-1

Site Name: N.E. Alloy / 63-3-045

Location: Utica State: NY
Sample(s): SRG

Report To: AECOM
40 British American Blvd.
Letman NY 12110

Telephone #: 518-951-2200

Project Mgr: Lindsay Mitchell

P.O. No.: Quote #:

F=Field Filtered 1=Na₂SO₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= 12=

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water

O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= X2= X3=

G=Grab C=C-Composite

Lab ID: NE-EEF 110519 Date: 11/5/19 Time: 1030 Type: G Matrix: 6W3

NE-INF 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

NE-TB 110519 11/5/19 1040 G 6W3

Containers

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

List Preservative Code below:

Analysis

QA/QC Reporting Notes:

QA/QC Reporting Level

☐ Level I ☐ Level II
☐ Level III ☒ Level IV

Other:

State-specific reporting standards:

Check if chlorinated

Hg + Li.

Relinquished by:

Received by:

Date:

Time:

Temp °C

Observed

Condition upon receipt:

Custody Seals:

☒ Present ☒ Intact ☐ Broken

John Jones

FedEx

11/5/19 1315

4.8

0

0

0

0

FedEx

11/6/19 1100

4.8

0

0

0

0

00036
00200

23695

fedex.com 1.800.GoFedEx 1.800.463.3339

05667048

FedEx
Express Package
US AirbillFedEx
Tracking
Number

8088 8989 3546

1 From
Date 11-5-19

Sender's Name Steve Gray Phone 518 951-2200

Company AECOM TECHNICAL SERVICES

Address 40 BRITISH AMERICAN BLVD

City LATHAM State NY ZIP 12110-1421

2 Your Internal Billing Reference 60284002-1

3 To Recipient's Name ATH: Sample Receipt Phone 413 789-9018

Company Euro Fins Spectrum Analytical

Address 11 Almgren Dr.

Address Use this line for the HOLD location address or for continuation of from shipping address.

City Agawam State MA ZIP 01001



8088 8989 3546

0120406210

Form ID No. 0215

4 Express Package Service
NOTE: Service order has changed. Please select carefully.

Next Business Day

☐ FedEx First Overnight
FedEx First Overnight delivery to select locations. Priority shipments will be delivered on Monday unless SATURDAY Delivery is selected.☒ FedEx Priority Overnight
FedEx Priority Overnight shipments will be delivered on Monday unless SATURDAY Delivery is selected.☐ FedEx Standard Overnight
Saturday Delivery NOT available.

*To most locations.

2 or 3 Business Days

☐ FedEx 2Day AM
Second business morning. Saturday Delivery NOT available.☐ FedEx Express Saver
Second business afternoon. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.☐ Saturday Delivery NOT available.Packages up to 150 lbs.
For packages over 150 lbs. use the FedEx Express Freight US Airbill.

Recipients Copy

5 Packaging *Declared value limit \$500
☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other6 Special Handling and Delivery Signature Options
☐ SATURDAY Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day AM, or FedEx Express Saver.☐ No Signature Required
Packages may be left without obtaining a signature for delivery. Fee applies.☐ Direct Signature
Someone at recipient's address may sign for delivery. Fee applies.☐ Indirect Signature
Someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.Does this shipment contain dangerous goods?
One box must be checked.☒ Yes
As per attached Shipper's Declaration not required.☐ No
Shipper's Declaration not required.7 Payment Bill to:
Enter FedEx Acct. No. or Credit Card No. below.☒ Sender
Act. No. Section☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages Total Weight lbs.

Credit Card Auth.

Obtain recip. Acct. No. ☐

Your liability is limited to US\$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Rev. Date 2/12 • Part #6134 • ©1994-2012 FedEx • PRINTED IN U.S.A. SM

fedex.com 1.800.GoFedEx 1.800.463.3339

Batch Summary

193110571402

Subcontracted Analyses

P31171BBB

P31171BQQ

SC56683-01 (NE-EFF 110519)

193131404401

Subcontracted Analyses

P31304ABB

P31304AQQ

SC56683-01 (NE-EFF 110519)

U193152AA

Subcontracted Analyses

QSTD020Q

SC56683-01 (NE-EFF 110519)

SC56683-02 (NE-INF 110519)

SC56683-03 (TB 110519)

VBLKU26B

ANALYTICAL REPORT

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

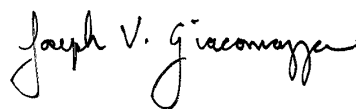
Laboratory Job ID: 480-168936-1

Client Project/Site: Northeast Alloys & Metals #633045

For:

New York State D.E.C.
625 Broadway
4th Floor
Albany, New York 12233

Attn: Mr. Payson Long



Authorized for release by:

4/30/2020 7:46:03 PM

Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager
(484)685-0868
judy.stone@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

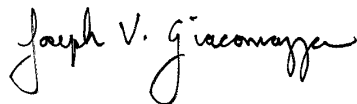
The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

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.



Joe Giacomazza
Project Management Assistant II
4/30/2020 7:46:03 PM

Table of Contents

Cover Page 1

Table of Contents 3

Definitions/Glossary 4

Case Narrative 5

Detection Summary 6

Client Sample Results 7

Surrogate Summary 13

QC Sample Results 14

QC Association Summary 20

Lab Chronicle 21

Certification Summary 22

Method Summary 23

Sample Summary 24

Chain of Custody 25

Receipt Checklists 26



Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Qualifiers

GC/MS VOA

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

Metals

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

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Job ID: 480-168936-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-168936-1

Comments

No additional comments.

Receipt

The samples were received on 4/23/2020 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-528154 recovered outside acceptance criteria, low biased, for 4-Methyl-2-pentanone (MIBK) and 2-Hexanone. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated sample was non-detect for these analytes, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-528394 recovered above the upper control limit for Isopropylbenzene. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: NE-INF 042220 (480-168936-1) and NE-EFF 042220 (480-168936-2).

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

Metals

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: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Client Sample ID: NE-INF 042220

Lab Sample ID: 480-168936-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.48	J	1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	20		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	2.8		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	4.8		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: NE-EFF 042220

Lab Sample ID: 480-168936-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.52	J	1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	60		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	3.6		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	7.1		1.0	0.90	ug/L	1		8260C	Total/NA
Nickel	0.0014	J	0.010	0.0013	mg/L	1		6010C	Total/NA

Client Sample ID: TRIP BLANK 042220

Lab Sample ID: 480-168936-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Client Sample ID: NE-INF 042220

Lab Sample ID: 480-168936-1

Date Collected: 04/22/20 11:35

Matrix: Water

Date Received: 04/23/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/28/20 13:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/28/20 13:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/28/20 13:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/28/20 13:43	1
1,1-Dichloroethane	0.48	J	1.0	0.38	ug/L			04/28/20 13:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/28/20 13:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/28/20 13:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/28/20 13:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/28/20 13:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/28/20 13:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/28/20 13:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/28/20 13:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/28/20 13:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/28/20 13:43	1
2-Hexanone	ND		5.0	1.2	ug/L			04/28/20 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/28/20 13:43	1
Acetone	ND		10	3.0	ug/L			04/28/20 13:43	1
Benzene	ND		1.0	0.41	ug/L			04/28/20 13:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/28/20 13:43	1
Bromoform	ND		1.0	0.26	ug/L			04/28/20 13:43	1
Bromomethane	ND		1.0	0.69	ug/L			04/28/20 13:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/28/20 13:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/28/20 13:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/28/20 13:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/20 13:43	1
Chloroethane	ND		1.0	0.32	ug/L			04/28/20 13:43	1
Chloroform	ND		1.0	0.34	ug/L			04/28/20 13:43	1
Chloromethane	ND		1.0	0.35	ug/L			04/28/20 13:43	1
cis-1,2-Dichloroethene	20		1.0	0.81	ug/L			04/28/20 13:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/28/20 13:43	1
Cyclohexane	ND		1.0	0.18	ug/L			04/28/20 13:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/28/20 13:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/28/20 13:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/28/20 13:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/28/20 13:43	1
Methyl acetate	ND		2.5	1.3	ug/L			04/28/20 13:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/28/20 13:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/28/20 13:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/28/20 13:43	1
Styrene	ND		1.0	0.73	ug/L			04/28/20 13:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/28/20 13:43	1
Toluene	ND		1.0	0.51	ug/L			04/28/20 13:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/28/20 13:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/28/20 13:43	1
Trichloroethene	2.8		1.0	0.46	ug/L			04/28/20 13:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/28/20 13:43	1
Vinyl chloride	4.8		1.0	0.90	ug/L			04/28/20 13:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/28/20 13:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Client Sample ID: NE-INF 042220

Lab Sample ID: 480-168936-1

Date Collected: 04/22/20 11:35

Matrix: Water

Date Received: 04/23/20 08:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	98		80 - 120		04/28/20 13:43	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		77 - 120		04/28/20 13:43	1
<i>4-Bromofluorobenzene (Surr)</i>	96		73 - 120		04/28/20 13:43	1
<i>Dibromofluoromethane (Surr)</i>	99		75 - 123		04/28/20 13:43	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Client Sample ID: NE-EFF 042220

Lab Sample ID: 480-168936-2

Date Collected: 04/22/20 11:25

Matrix: Water

Date Received: 04/23/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/28/20 14:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/28/20 14:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/28/20 14:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/28/20 14:07	1
1,1-Dichloroethane	0.52	J	1.0	0.38	ug/L			04/28/20 14:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/28/20 14:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/28/20 14:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/28/20 14:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/28/20 14:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/28/20 14:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/28/20 14:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/28/20 14:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/28/20 14:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/28/20 14:07	1
2-Hexanone	ND		5.0	1.2	ug/L			04/28/20 14:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/28/20 14:07	1
Acetone	ND		10	3.0	ug/L			04/28/20 14:07	1
Benzene	ND		1.0	0.41	ug/L			04/28/20 14:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/28/20 14:07	1
Bromoform	ND		1.0	0.26	ug/L			04/28/20 14:07	1
Bromomethane	ND		1.0	0.69	ug/L			04/28/20 14:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/28/20 14:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/28/20 14:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/28/20 14:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/20 14:07	1
Chloroethane	ND		1.0	0.32	ug/L			04/28/20 14:07	1
Chloroform	ND		1.0	0.34	ug/L			04/28/20 14:07	1
Chloromethane	ND		1.0	0.35	ug/L			04/28/20 14:07	1
cis-1,2-Dichloroethene	60		1.0	0.81	ug/L			04/28/20 14:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/28/20 14:07	1
Cyclohexane	ND		1.0	0.18	ug/L			04/28/20 14:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/28/20 14:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/28/20 14:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/28/20 14:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/28/20 14:07	1
Methyl acetate	ND		2.5	1.3	ug/L			04/28/20 14:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/28/20 14:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/28/20 14:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/28/20 14:07	1
Styrene	ND		1.0	0.73	ug/L			04/28/20 14:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/28/20 14:07	1
Toluene	ND		1.0	0.51	ug/L			04/28/20 14:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/28/20 14:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/28/20 14:07	1
Trichloroethene	3.6		1.0	0.46	ug/L			04/28/20 14:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/28/20 14:07	1
Vinyl chloride	7.1		1.0	0.90	ug/L			04/28/20 14:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/28/20 14:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Client Sample ID: NE-EFF 042220

Lab Sample ID: 480-168936-2

Date Collected: 04/22/20 11:25

Matrix: Water

Date Received: 04/23/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		04/28/20 14:07	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		04/28/20 14:07	1
4-Bromofluorobenzene (Surr)	91		73 - 120		04/28/20 14:07	1
Dibromofluoromethane (Surr)	100		75 - 123		04/28/20 14:07	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	0.0014	J	0.010	0.0013	mg/L		04/27/20 09:47	04/27/20 18:41	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L		04/30/20 12:43	04/30/20 17:00	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Client Sample ID: TRIP BLANK 042220

Lab Sample ID: 480-168936-3

Date Collected: 04/22/20 00:00

Matrix: Water

Date Received: 04/23/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/27/20 10:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/27/20 10:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/27/20 10:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/27/20 10:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/27/20 10:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/27/20 10:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/27/20 10:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/27/20 10:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/27/20 10:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/27/20 10:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/27/20 10:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/27/20 10:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/27/20 10:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/27/20 10:49	1
2-Hexanone	ND		5.0	1.2	ug/L			04/27/20 10:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/27/20 10:49	1
Acetone	ND		10	3.0	ug/L			04/27/20 10:49	1
Benzene	ND		1.0	0.41	ug/L			04/27/20 10:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/27/20 10:49	1
Bromoform	ND		1.0	0.26	ug/L			04/27/20 10:49	1
Bromomethane	ND		1.0	0.69	ug/L			04/27/20 10:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/27/20 10:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/27/20 10:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/27/20 10:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/20 10:49	1
Chloroethane	ND		1.0	0.32	ug/L			04/27/20 10:49	1
Chloroform	ND		1.0	0.34	ug/L			04/27/20 10:49	1
Chloromethane	ND		1.0	0.35	ug/L			04/27/20 10:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/27/20 10:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/27/20 10:49	1
Cyclohexane	ND		1.0	0.18	ug/L			04/27/20 10:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/27/20 10:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/27/20 10:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/27/20 10:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/27/20 10:49	1
Methyl acetate	ND		2.5	1.3	ug/L			04/27/20 10:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/27/20 10:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/27/20 10:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/27/20 10:49	1
Styrene	ND		1.0	0.73	ug/L			04/27/20 10:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/27/20 10:49	1
Toluene	ND		1.0	0.51	ug/L			04/27/20 10:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/27/20 10:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/27/20 10:49	1
Trichloroethene	ND		1.0	0.46	ug/L			04/27/20 10:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/27/20 10:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/27/20 10:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/27/20 10:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Client Sample ID: TRIP BLANK 042220

Lab Sample ID: 480-168936-3

Date Collected: 04/22/20 00:00

Matrix: Water

Date Received: 04/23/20 08:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	99		80 - 120		04/27/20 10:49	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		77 - 120		04/27/20 10:49	1
<i>4-Bromofluorobenzene (Surr)</i>	100		73 - 120		04/27/20 10:49	1
<i>Dibromofluoromethane (Surr)</i>	104		75 - 123		04/27/20 10:49	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-168936-1	NE-INF 042220	98	101	96	99
480-168936-2	NE-EFF 042220	98	99	91	100
480-168936-3	TRIP BLANK 042220	99	103	100	104
LCS 480-528154/5	Lab Control Sample	100	101	101	103
LCS 480-528394/5	Lab Control Sample	98	97	95	97
MB 480-528154/8	Method Blank	100	102	101	102
MB 480-528394/7	Method Blank	98	101	93	99

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

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

Lab Sample ID: MB 480-528154/8

Matrix: Water

Analysis Batch: 528154

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			04/27/20 09:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/27/20 09:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/27/20 09:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/27/20 09:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/27/20 09:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/27/20 09:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/27/20 09:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/27/20 09:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/27/20 09:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/27/20 09:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/27/20 09:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/27/20 09:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/27/20 09:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/27/20 09:54	1
2-Hexanone	ND		5.0	1.2	ug/L			04/27/20 09:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/27/20 09:54	1
Acetone	ND		10	3.0	ug/L			04/27/20 09:54	1
Benzene	ND		1.0	0.41	ug/L			04/27/20 09:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/27/20 09:54	1
Bromoform	ND		1.0	0.26	ug/L			04/27/20 09:54	1
Bromomethane	ND		1.0	0.69	ug/L			04/27/20 09:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/27/20 09:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/27/20 09:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/27/20 09:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/27/20 09:54	1
Chloroethane	ND		1.0	0.32	ug/L			04/27/20 09:54	1
Chloroform	ND		1.0	0.34	ug/L			04/27/20 09:54	1
Chloromethane	ND		1.0	0.35	ug/L			04/27/20 09:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/27/20 09:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/27/20 09:54	1
Cyclohexane	ND		1.0	0.18	ug/L			04/27/20 09:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/27/20 09:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/27/20 09:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/27/20 09:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/27/20 09:54	1
Methyl acetate	ND		2.5	1.3	ug/L			04/27/20 09:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/27/20 09:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/27/20 09:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/27/20 09:54	1
Styrene	ND		1.0	0.73	ug/L			04/27/20 09:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/27/20 09:54	1
Toluene	ND		1.0	0.51	ug/L			04/27/20 09:54	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/27/20 09:54	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/27/20 09:54	1
Trichloroethene	ND		1.0	0.46	ug/L			04/27/20 09:54	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/27/20 09:54	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/27/20 09:54	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/27/20 09:54	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

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

Lab Sample ID: MB 480-528154/8

Matrix: Water

Analysis Batch: 528154

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		04/27/20 09:54	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		04/27/20 09:54	1
4-Bromofluorobenzene (Surr)	101		73 - 120		04/27/20 09:54	1
Dibromofluoromethane (Surr)	102		75 - 123		04/27/20 09:54	1

Lab Sample ID: LCS 480-528154/5

Matrix: Water

Analysis Batch: 528154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.5		ug/L		94	73 - 126
1,1,2,2-Tetrachloroethane	25.0	21.0		ug/L		84	76 - 120
1,1,2-Trichloroethane	25.0	21.5		ug/L		86	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.1		ug/L		97	61 - 148
1,1-Dichloroethane	25.0	22.5		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	23.3		ug/L		93	66 - 127
1,2,4-Trichlorobenzene	25.0	22.4		ug/L		90	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.8		ug/L		87	56 - 134
1,2-Dichlorobenzene	25.0	21.2		ug/L		85	80 - 124
1,2-Dichloroethane	25.0	21.3		ug/L		85	75 - 120
1,2-Dichloropropane	25.0	22.1		ug/L		88	76 - 120
1,3-Dichlorobenzene	25.0	21.8		ug/L		87	77 - 120
1,4-Dichlorobenzene	25.0	21.3		ug/L		85	80 - 120
2-Butanone (MEK)	125	107		ug/L		85	57 - 140
2-Hexanone	125	100		ug/L		80	65 - 127
4-Methyl-2-pentanone (MIBK)	125	100		ug/L		80	71 - 125
Acetone	125	112		ug/L		89	56 - 142
Benzene	25.0	21.9		ug/L		87	71 - 124
Bromodichloromethane	25.0	22.7		ug/L		91	80 - 122
Bromoform	25.0	22.6		ug/L		90	61 - 132
Bromomethane	25.0	23.2		ug/L		93	55 - 144
Carbon disulfide	25.0	22.3		ug/L		89	59 - 134
Carbon tetrachloride	25.0	24.3		ug/L		97	72 - 134
Chlorobenzene	25.0	21.6		ug/L		87	80 - 120
Dibromochloromethane	25.0	22.7		ug/L		91	75 - 125
Chloroethane	25.0	23.7		ug/L		95	69 - 136
Chloroform	25.0	21.4		ug/L		86	73 - 127
Chloromethane	25.0	21.0		ug/L		84	68 - 124
cis-1,2-Dichloroethene	25.0	22.1		ug/L		88	74 - 124
cis-1,3-Dichloropropene	25.0	22.0		ug/L		88	74 - 124
Cyclohexane	25.0	23.3		ug/L		93	59 - 135
Dichlorodifluoromethane	25.0	22.8		ug/L		91	59 - 135
Ethylbenzene	25.0	21.8		ug/L		87	77 - 123
1,2-Dibromoethane	25.0	21.6		ug/L		87	77 - 120
Isopropylbenzene	25.0	21.9		ug/L		87	77 - 122
Methyl acetate	50.0	41.6		ug/L		83	74 - 133
Methyl tert-butyl ether	25.0	21.5		ug/L		86	77 - 120
Methylcyclohexane	25.0	23.2		ug/L		93	68 - 134

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

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

Lab Sample ID: LCS 480-528154/5

Matrix: Water

Analysis Batch: 528154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	22.8		ug/L		91	75 - 124
Styrene	25.0	21.8		ug/L		87	80 - 120
Tetrachloroethene	25.0	22.5		ug/L		90	74 - 122
Toluene	25.0	21.5		ug/L		86	80 - 122
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	22.0		ug/L		88	80 - 120
Trichloroethene	25.0	22.4		ug/L		90	74 - 123
Trichlorofluoromethane	25.0	24.5		ug/L		98	62 - 150
Vinyl chloride	25.0	24.0		ug/L		96	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: MB 480-528394/7

Matrix: Water

Analysis Batch: 528394

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			04/28/20 11:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/28/20 11:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/28/20 11:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/28/20 11:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/28/20 11:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/28/20 11:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/28/20 11:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/28/20 11:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/28/20 11:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/28/20 11:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/28/20 11:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/28/20 11:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/28/20 11:53	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/28/20 11:53	1
2-Hexanone	ND		5.0	1.2	ug/L			04/28/20 11:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/28/20 11:53	1
Acetone	ND		10	3.0	ug/L			04/28/20 11:53	1
Benzene	ND		1.0	0.41	ug/L			04/28/20 11:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/28/20 11:53	1
Bromoform	ND		1.0	0.26	ug/L			04/28/20 11:53	1
Bromomethane	ND		1.0	0.69	ug/L			04/28/20 11:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/28/20 11:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/28/20 11:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/28/20 11:53	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/28/20 11:53	1
Chloroethane	ND		1.0	0.32	ug/L			04/28/20 11:53	1
Chloroform	ND		1.0	0.34	ug/L			04/28/20 11:53	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

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

Lab Sample ID: MB 480-528394/7

Matrix: Water

Analysis Batch: 528394

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			04/28/20 11:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/28/20 11:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/28/20 11:53	1
Cyclohexane	ND		1.0	0.18	ug/L			04/28/20 11:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/28/20 11:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/28/20 11:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/28/20 11:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/28/20 11:53	1
Methyl acetate	ND		2.5	1.3	ug/L			04/28/20 11:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/28/20 11:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/28/20 11:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/28/20 11:53	1
Styrene	ND		1.0	0.73	ug/L			04/28/20 11:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/28/20 11:53	1
Toluene	ND		1.0	0.51	ug/L			04/28/20 11:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/28/20 11:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/28/20 11:53	1
Trichloroethene	ND		1.0	0.46	ug/L			04/28/20 11:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/28/20 11:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/28/20 11:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/28/20 11:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		04/28/20 11:53	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		04/28/20 11:53	1
4-Bromofluorobenzene (Surr)	93		73 - 120		04/28/20 11:53	1
Dibromofluoromethane (Surr)	99		75 - 123		04/28/20 11:53	1

Lab Sample ID: LCS 480-528394/5

Matrix: Water

Analysis Batch: 528394

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.1		ug/L		92	73 - 126
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		100	76 - 120
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.7		ug/L		91	61 - 148
1,1-Dichloroethane	25.0	23.1		ug/L		93	77 - 120
1,1-Dichloroethene	25.0	22.6		ug/L		90	66 - 127
1,2,4-Trichlorobenzene	25.0	24.8		ug/L		99	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	25.2		ug/L		101	56 - 134
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	24.7		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 120
2-Butanone (MEK)	125	122		ug/L		97	57 - 140
2-Hexanone	125	131		ug/L		105	65 - 127

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

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

Lab Sample ID: LCS 480-528394/5

Matrix: Water

Analysis Batch: 528394

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	71 - 125
Acetone	125	113		ug/L		90	56 - 142
Benzene	25.0	23.7		ug/L		95	71 - 124
Bromodichloromethane	25.0	24.3		ug/L		97	80 - 122
Bromoform	25.0	26.3		ug/L		105	61 - 132
Bromomethane	25.0	20.9		ug/L		83	55 - 144
Carbon disulfide	25.0	21.8		ug/L		87	59 - 134
Carbon tetrachloride	25.0	23.1		ug/L		92	72 - 134
Chlorobenzene	25.0	24.7		ug/L		99	80 - 120
Dibromochloromethane	25.0	25.9		ug/L		104	75 - 125
Chloroethane	25.0	19.9		ug/L		80	69 - 136
Chloroform	25.0	22.7		ug/L		91	73 - 127
Chloromethane	25.0	19.8		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	74 - 124
Cyclohexane	25.0	23.8		ug/L		95	59 - 135
Dichlorodifluoromethane	25.0	19.9		ug/L		80	59 - 135
Ethylbenzene	25.0	25.7		ug/L		103	77 - 123
1,2-Dibromoethane	25.0	26.6		ug/L		107	77 - 120
Isopropylbenzene	25.0	26.9		ug/L		107	77 - 122
Methyl acetate	50.0	44.8		ug/L		90	74 - 133
Methyl tert-butyl ether	25.0	25.7		ug/L		103	77 - 120
Methylcyclohexane	25.0	24.8		ug/L		99	68 - 134
Methylene Chloride	25.0	24.9		ug/L		99	75 - 124
Styrene	25.0	27.8		ug/L		111	80 - 120
Tetrachloroethene	25.0	24.9		ug/L		100	74 - 122
Toluene	25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	27.2		ug/L		109	80 - 120
Trichloroethene	25.0	23.9		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	22.5		ug/L		90	62 - 150
Vinyl chloride	25.0	21.4		ug/L		86	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	95		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-527799/1-A

Matrix: Water

Analysis Batch: 528373

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 527799

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	ND		0.010	0.0013	mg/L		04/27/20 09:47	04/27/20 17:58	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

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

Lab Sample ID: LCS 480-527799/2-A
Matrix: Water
Analysis Batch: 528373

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 527799

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	0.200	0.194		mg/L	-	97	80 - 120

Lab Sample ID: LCSD 480-527799/24-A
Matrix: Water
Analysis Batch: 528373

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 527799

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nickel	0.200	0.195		mg/L	-	97	80 - 120	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-528976/1-A
Matrix: Water
Analysis Batch: 529079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 528976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00012	mg/L	-	04/30/20 12:43	04/30/20 16:34	1

Lab Sample ID: LCS 480-528976/2-A
Matrix: Water
Analysis Batch: 529079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 528976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00703		mg/L	-	105	80 - 120

Lab Sample ID: LCSD 480-528976/3-A
Matrix: Water
Analysis Batch: 529079

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 528976

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00667	0.00710		mg/L	-	106	80 - 120	1	20

QC Association Summary

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

GC/MS VOA

Analysis Batch: 528154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168936-3	TRIP BLANK 042220	Total/NA	Water	8260C	
MB 480-528154/8	Method Blank	Total/NA	Water	8260C	
LCS 480-528154/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 528394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168936-1	NE-INF 042220	Total/NA	Water	8260C	
480-168936-2	NE-EFF 042220	Total/NA	Water	8260C	
MB 480-528394/7	Method Blank	Total/NA	Water	8260C	
LCS 480-528394/5	Lab Control Sample	Total/NA	Water	8260C	

Metals

Prep Batch: 527799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168936-2	NE-EFF 042220	Total/NA	Water	3005A	
MB 480-527799/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-527799/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-527799/24-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 528373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168936-2	NE-EFF 042220	Total/NA	Water	6010C	527799
MB 480-527799/1-A	Method Blank	Total/NA	Water	6010C	527799
LCS 480-527799/2-A	Lab Control Sample	Total/NA	Water	6010C	527799
LCSD 480-527799/24-A	Lab Control Sample Dup	Total/NA	Water	6010C	527799

Prep Batch: 528976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168936-2	NE-EFF 042220	Total/NA	Water	7470A	
MB 480-528976/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-528976/2-A	Lab Control Sample	Total/NA	Water	7470A	
LCSD 480-528976/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	

Analysis Batch: 529079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168936-2	NE-EFF 042220	Total/NA	Water	7470A	528976
MB 480-528976/1-A	Method Blank	Total/NA	Water	7470A	528976
LCS 480-528976/2-A	Lab Control Sample	Total/NA	Water	7470A	528976
LCSD 480-528976/3-A	Lab Control Sample Dup	Total/NA	Water	7470A	528976

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Client Sample ID: NE-INF 042220

Date Collected: 04/22/20 11:35

Date Received: 04/23/20 08:00

Lab Sample ID: 480-168936-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528394	04/28/20 13:43	CRL	TAL BUF

Client Sample ID: NE-EFF 042220

Date Collected: 04/22/20 11:25

Date Received: 04/23/20 08:00

Lab Sample ID: 480-168936-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528394	04/28/20 14:07	CRL	TAL BUF
Total/NA	Prep	3005A			527799	04/27/20 09:47	NSW	TAL BUF
Total/NA	Analysis	6010C		1	528373	04/27/20 18:41	LMH	TAL BUF
Total/NA	Prep	7470A			528976	04/30/20 12:43	BMB	TAL BUF
Total/NA	Analysis	7470A		1	529079	04/30/20 17:00	BMB	TAL BUF

Client Sample ID: TRIP BLANK 042220

Date Collected: 04/22/20 00:00

Date Received: 04/23/20 08:00

Lab Sample ID: 480-168936-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	528154	04/27/20 10:49	CRL	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.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Method Summary

Client: New York State D.E.C.
Project/Site: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

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: Northeast Alloys & Metals #633045

Job ID: 480-168936-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-168936-1	NE-INF 042220	Water	04/22/20 11:35	04/23/20 08:00	
480-168936-2	NE-EFF 042220	Water	04/22/20 11:25	04/23/20 08:00	
480-168936-3	TRIP BLANK 042220	Water	04/22/20 00:00	04/23/20 08:00	

Client Information		Sampler: <u>Patrick Sakolowski</u>		Lab PM: <u>Stone, Judy L</u>	Carrier Tracking No(s):		COC No: <u>480-144839-32251.1</u>																																																												
Client Contact: <u>John Johnson</u>		Phone: <u>(516) 885-4399</u>		E-Mail: <u>judy.stone@testamericainc.com</u>	Page: <u>Page 1 of 1</u>		Job #: <u>1</u>																																																												
Company: <u>Precision Environmental Services Inc.</u>																																																																			
Address: <u>831 State Route 67 Ste 38</u>																																																																			
City: <u>Ballston Spa</u>																																																																			
State, Zip: <u>NY, 12020</u>																																																																			
Phone: <u>518-402-9625 (Tel)</u>																																																																			
Email: <u>johnson@precisioninc.com</u>																																																																			
Project Name: <u>Northeast Alloys & Metals #633045</u>																																																																			
Site: <u>SSOW#:</u>																																																																			
Due Date Requested: <u>Standard (10-Day)</u>																																																																			
TAT Requested (days): <u>138004</u>																																																																			
PO #: <u>Callout 138004</u>																																																																			
WO #: <u>48021991</u>																																																																			
Project #: <u>48021991</u>																																																																			
SSOW#:																																																																			
<table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=Grab)</th> <th>Matrix (W=Water, S=solid, O=waste/oil, BT=tissue, A=air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>6010C, 7470A (H₂ + N₂)</th> <th>8260C - TCL list VOAs</th> <th>Analysis Requested</th> <th>Preservation Codes:</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>NE-INF 042220</td> <td>4-22-20</td> <td>1135</td> <td>Grab</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:</td> <td></td> </tr> <tr> <td>NE-EFF 042220</td> <td>4-22-20</td> <td>1125</td> <td>Grab</td> <td>Water</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td>M - Hexane N - None O - AsNaO₂ P - Na₂O₄S Q - Na₂SO₃ R - Na₂SO₃ S - H₂SO₄ T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)</td> <td></td> </tr> <tr> <td>Trip Blank 042220</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NE 4-22-20</td> <td>4-22-20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								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)	6010C, 7470A (H ₂ + N ₂)	8260C - TCL list VOAs	Analysis Requested	Preservation Codes:	Special Instructions/Note:	NE-INF 042220	4-22-20	1135	Grab	Water	X	X	X	X		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		NE-EFF 042220	4-22-20	1125	Grab	Water	X	X	X	X		M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)		Trip Blank 042220	-	-	-	-								NE 4-22-20	4-22-20										
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)	6010C, 7470A (H ₂ + N ₂)	8260C - TCL list VOAs	Analysis Requested	Preservation Codes:	Special Instructions/Note:																																																								
NE-INF 042220	4-22-20	1135	Grab	Water	X	X	X	X		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO ₄ F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:																																																									
NE-EFF 042220	4-22-20	1125	Grab	Water	X	X	X	X		M - Hexane N - None O - AsNaO ₂ P - Na ₂ O ₄ S Q - Na ₂ SO ₃ R - Na ₂ SO ₃ S - H ₂ SO ₄ T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)																																																									
Trip Blank 042220	-	-	-	-																																																															
NE 4-22-20	4-22-20																																																																		
 480-168936 Chain of Custody																																																																			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)																																																																			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months																																																																			
Special Instructions/QC Requirements: ac report to Lindsey Mitchell (Lindsey.Mitchell@eaton.com)																																																																			
Empty Kit Relinquished by: Relinquished by: <u>Patrick Sakolowski</u> Date: <u>4/23/20</u> Time: <u>1430</u> Company: <u>PEs</u> Relinquished by: <u>Paul Jader</u> Date: <u>4/23/20</u> Time: <u>1700</u> Company: <u>Chopin</u> Relinquished by: <u>SS</u> Date: <u>4/23/20</u> Time: <u>0800</u> Company: <u>1013</u>																																																																			
Custody Seal No.: <u>3472</u> Custody Seals Intact: ☒ Yes ☐ No																																																																			

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-168936-1

Login Number: 168936

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4 #2 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	PRECISION
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	