AECOM

Operation, Maintenance and Monitoring Report
August 2019

NOW Corporation
NYSDEC Site No. 3-14-008

Work Assignment No.
D007626-25

Prepared for:

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

Prepared by:

AECOM Technical Services Northeast, Inc.
40 British American Boulevard
Latham, New York 12110

October 2019

AECOM

October 17, 2019

Mr. Payson Long
NYSDEC Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7013

Re: NOW Corporation - Site No. 3-14-008
O&M Summary Report: August 2019

Dear Mr. Long:

This monthly summary report describes the operation, maintenance and monitoring (OM&M) of the remedial system at the NOW Corporation site in the Town of Clinton, New York, for a 35-day period (**July 23 – August 27, 2019**).

With the exceptions noted below, if any, the pump and treat system was online and operational throughout the reporting period. Approximately 243,000 gallons of water were treated. Discharge from the treatment system averaged approximately 6,900 gallons per day (gpd).

As of the last day of the reporting period, a total of 117,032,000 gallons of groundwater had been recovered and treated by the system since it became operational in February 1998.

Table 1 summarizes influent and effluent analytical data for water samples collected on August 27, 2019. **There were no exceedances of effluent limitations.** A copy of the analytical laboratory report is attached. Total VOCs in the most contaminated extraction well (TW-2A) was 3,191 ug/L; last month's value was 2,797 ug/L.

Table 2 presents operational data recorded on the sampling date.

Table 3 presents quarterly water levels measured in selected monitoring wells.

There was no downtime during the reporting period. Pumps in recovery wells were operational throughout the period.

AECOM made two site visits to conduct the required system inspection, perform scheduled and unscheduled maintenance, and to collect water samples. Details for the current period follow:

August 19 – Reset PLC to restore auto-transmission of system-status emails. Eight daily emails had not been transmitted.

August 27 – Performed monthly system inspection and influent and effluent sampling. Weed wacked around the building.

The VFD regulating the stripper blower remained at 55 Hz upon departure.

Please feel free to contact me at (518) 951-2262, or at stephen.choiniere@aecom.com if you have any questions or comments regarding this report or the operation of the treatment system.

Sincerely,
AECOM Technical Services Northeast, Inc.

Stephen R. Choiniere
Project Manager

Table 1
Summary of Influent and Effluent Data
Sampling Date: August 27, 2019
NOW Corporation Site
NYSDEC Site No. 3-14-008
Town of Clinton, New York

Analytes/ Parameters	Total Influent	Effluent	Recovery Wells			Effluent Limitations	(units)
			TW-1	TW-2A	TW-3		
Quantity treated, avg per day		6,944				Monitor	gallons
pH	6.8	7.4				6.5 to 8.5	standard units
Oil and Grease	**2.2 J**	**2.0 J**	NA	NA	NA	15	mg/L
Total Cyanide	<0.010	<0.010	NA	NA	NA	0.01	mg/L
TDS	**267**	**270**	NA	NA	NA	1000	mg/L
TSS	<3.00	<3.00	NA	NA	NA	50	mg/L
Aluminum, Total	<400	<400	NA	NA	NA	Monitor	ug/L
Arsenic, Total	<2.0	<2.0	NA	NA	NA	100	ug/L
Barium, Total	**82.6**	**83.7**	NA	NA	NA	Monitor	ug/L
Chromium	**1.2 J**	**0.77 J**	NA	NA	NA	400	ug/L
Copper	<40.0	<40.0	NA	NA	NA	24	ug/L
Iron	**176**	<100	NA	NA	NA	600	ug/L
Mercury	<0.20	<0.20	NA	NA	NA	0.8	ug/L
Manganese	**356**	**29.5**	NA	NA	NA	Monitor	ug/L
Nickel	**6.4**	**0.84 J**	NA	NA	NA	200	ug/L
Zinc	**11.6 J**	<15.0	NA	NA	NA	150	ug/L
1,1,1-Trichloroethane	**920**	<1	**1.2**	**2,200**	**13**	10	ug/L
1,1,2-Trichloroethane	<5	<1	<1	<5	<1	1.2	ug/L
1,1-Dichloroethane	**190**	<1	**33**	**400**	**22**	10	ug/L
1,1-Dichloroethene	**13**	<1	**5.9**	**21**	**2.7**	0.5	ug/L
1,2-Dichloroethane	<5	<1	<1	<5	<1	1.6	ug/L
2-Butanone	<25	<5	<5	<25	<5	NL	ug/L
Benzene	<5	<1	<1	<5	<1	1.4	ug/L
Chlorobenzene	<5	<1	<1	<5	<1	10	ug/L
Chloroethane	<5	<1	<1	<5	**0.83 J**	10	ug/L
cis -1,2-Dichloroethene	**6.0**	<1	**4.6**	**10**	**1.1**	5	ug/L
Ethylbenzene	<5	<1	<1	<5	<1	10	ug/L
o-Xylene	<5	<1	<1	<5	<1	5	ug/L
m,p-Xylene	<5	<1	<1	<5	<1	10	ug/L
Tetrachloroethene	<5	<1	<1	<5	<1	1.4	ug/L
Tertrahydrofuran	<10	<2	<2	<10	<2	NL	ug/L
Toluene	<5	<1	<1	<5	<1	10	ug/L
Trichloroethene	**270**	<1	**42**	**560**	**44**	6	ug/L
Vinyl Chloride	<5	<1	<1	<5	<1	0.6	ug/L

Notes:

1) Detected concentrations are presented in ***bold*** *typeface, and are expressed in the units shown in far right column.*

2) Effluent concentration boxed in ***bold*** *denotes exceedance of effluent limitations.*

3) NA indicates not analyzed.

*4) "**J**" indicates an estimated concentration below the reporting limit (RL).*

*5) "**B**" denotes metal detected in method blank at concentration below the RL, but above the method detection limit.*

*6) "**D**" indicates result from a diluted sample.*

7) NL indicates no effluent limitations specified.

*8) "**B**" indicates analyte is found in the associated blank as well as in the sample.*

Table 2
Summary of August 2019 O&M Data

NOW Corporation Site
Town of Clinton, New York

Instrumentation/Readings:		8/27/19	Units
TW-1			
	Pumping Rate	7	GPM
	Water Level Above Transducer	33.12	feet
	Flow Meter Reading	9,338,200	gallons
	Pump Pressure	0	psi
TW-2A			
	Pumping Rate	10	GPM
	Water Level Above Transducer	33.16	feet
	Flow Meter Reading	20,037,100	gallons
	Pump Pressure	0	psi
TW-3			
	Pumping Rate	8	GPM
	Water Level Above Transducer	42.84	feet
	Flow Meter Reading	16,784,600	gallons
	Pump Pressure	0	psi
VFD Setting	Arrival	55	Hz
	Departure	55	Hz
Air Stripper			
	Stripper Blower Pressure	12	inches H_2O
	Air Temperature in Stripper	56	°F
Effluent Flow			
	Effluent Flow this period	243,035	gallons
	Total Effluent Flow	117,032,387	gallons

Table 3
Groundwater Levels
NOW Corporation Site
NYSDEC Site No. 3-14-008
Town of Clinton, New York

Well ID	MP Elevation	8/27/19	
		Depth to Water (Ft below MP)	GW Elevation
MW-1	289.50	14.00	275.50
MW-2	332.51	35.74	296.77
MW-3	312.83	33.25	279.58
MW-3S	312.51	27.89	284.62
MW-4S	298.29	23.62	274.67
MW-4D	298.16	23.80	274.36
MW-5	285.48	19.97	265.51
MW-6S	287.90	17.91	269.99
MW-6D	287.25	11.61	275.64
MW-7S	292.12	30.72	261.40
MW-7D	292.54	74.51	218.03
OW-1	307.75	48.60	259.15
OW-2	305.96	66.89	239.07
OW-3	NA	--	NA
OW-4	NA	--	NA
OW-5	NA	--	NA
OW-6	294.81	8.16	286.65
IW-1	312.46	32.14	280.32
IW-2	304.56	38.49	266.07
MW-8	283.65	--	NA
MW-9	275.37	--	NA
MW-10	280.92	--	NA
MW-11	283.72	--	NA
MW-12S	NA	--	NA
MW-12D	NA	--	NA

Note: NA indicates data are not available.
MP denotes measuring point.

eurofins | Spectrum Analytical

☑ Final Report
☐ Revised Report

Report Date:
11-Sep-19 11:15

Laboratory Report
SC55978

AECOM Environment
40 British American Boulevard
Latham, NY 12110
Attn: Stephen Choiniere

Project: Now Corp - Staatsburg, NY
Project #: 60276639-1

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.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393

Authorized by:

Dawn Wojcik
Laboratory Director

Dawn E Wojcik

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 37 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: SC55978

Project: Now Corp - Staatsburg, NY

Project Number: 60276639-1

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC55978-01	EFF55 082719	Ground Water	27-Aug-19 15:25	28-Aug-19 10:20
SC55978-02	INF 082719	Ground Water	27-Aug-19 15:15	28-Aug-19 10:20
SC55978-03	TW-1 082719	Ground Water	27-Aug-19 15:10	28-Aug-19 10:20
SC55978-04	TW-2A 082719	Ground Water	27-Aug-19 15:30	28-Aug-19 10:20
SC55978-05	TW-3 082719	Ground Water	27-Aug-19 15:35	28-Aug-19 10:20
SC55978-06	TB 082719	Trip Blank	27-Aug-19 00:00	28-Aug-19 10:20

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 5.5 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.

Receipt
The samples were received on 8/29/2019 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 2.6º C.
GC/MS VOA
Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: SC55978-02
(460-190229-2) and SC55978-04 (460-190229-4). Elevated reporting limits (RLs) are provided.
Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch
460-637413 recovered outside control limits for the following analytes: Ethanol and Naphthalene.
Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-637413
recovered outside control limits for the following analytes: 1,2,3-Trichlorobenzene, 1,3,5-Trimethylbenzene, Ethanol and 4-Chlorotoluene.
These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

8260C

Laboratory Control Samples:

637413 BSD

Ethanol RPD 49% (30%) is outside individual acceptance criteria.

Naphthalene RPD 32% (30%) is outside individual acceptance criteria.

637413-16

LCS or LCSD is outside acceptance limits.

Ethanol

637413-17

LCS or LCSD is outside acceptance limits.

1,2,3-Trichlorobenzene
1,3,5-Trimethylbenzene
4-Chlorotoluene
Ethanol
Naphthalene

Samples:

SC55978-01 *EFF55 082719*

8260C

Samples:

SC55978-01 *EFF55 082719*

LCS or LCSD is outside acceptance limits.

1,2,3-Trichlorobenzene
1,3,5-Trimethylbenzene
4-Chlorotoluene
Ethanol
Naphthalene

SC55978-03 *TW-1 082719*

LCS or LCSD is outside acceptance limits.

1,2,3-Trichlorobenzene
1,3,5-Trimethylbenzene
4-Chlorotoluene
Ethanol
Naphthalene

SC55978-04 *TW-2A 082719*

LCS or LCSD is outside acceptance limits.

1,2,3-Trichlorobenzene
1,3,5-Trimethylbenzene
4-Chlorotoluene
Ethanol
Naphthalene

SC55978-05 *TW-3 082719*

LCS or LCSD is outside acceptance limits.

1,2,3-Trichlorobenzene
1,3,5-Trimethylbenzene
4-Chlorotoluene
Ethanol
Naphthalene

SC55978-06 *TB 082719*

LCS or LCSD is outside acceptance limits.

1,2,3-Trichlorobenzene
1,3,5-Trimethylbenzene
4-Chlorotoluene
Ethanol
Naphthalene

Sample Acceptance Check Form

Client:	AECOM Environment - Latham, NY
Project:	Now Corp - Staatsburg, NY / 60276639-1
Work Order:	SC55978
Sample(s) received on:	8/28/2019

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

	Yes	No	N/A
Were custody seals present?	☑	☐	☐
Were custody seals intact?	☑	☐	☐
Were samples received at a temperature of ≤ 6°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: SC55978-01 **Client ID:** EFF55 082719

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
HEM (oil & grease)	2.0	J	5.0	mg/l	EPA 1664B
Total Dissolved Solids	270		30.0	mg/l	SM 2540 C
Barium	0.0837		0.0040	mg/l	SW-846 6020A
Chromium	0.00077	J	0.0040	mg/l	SW-846 6020A
Manganese	0.0295		0.0100	mg/l	SW-846 6020A
Nickel	0.00084	J	0.0040	mg/l	SW-846 6020A

Lab ID: SC55978-02 **Client ID:** INF 082719

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	920		5.0	ug/l	8260C
1,1-Dichloroethane	190		5.0	ug/l	8260C
1,1-Dichloroethene	13		5.0	ug/l	8260C
1,4-Dioxane	170	Ja	250	ug/l	8260C
cis-1,2-Dichloroethene	6.0		5.0	ug/l	8260C
Trichloroethene	270		5.0	ug/l	8260C
HEM (oil & grease)	2.2	J	5.0	mg/l	EPA 1664B
Total Dissolved Solids	267		30.0	mg/l	SM 2540 C
Barium	0.0826		0.0040	mg/l	SW-846 6020A
Chromium	0.0012	J	0.0040	mg/l	SW-846 6020A
Iron	0.176		0.100	mg/l	SW-846 6020A
Manganese	0.356		0.0100	mg/l	SW-846 6020A
Nickel	0.0064		0.0040	mg/l	SW-846 6020A
Zinc	0.0116	J	0.0150	mg/l	SW-846 6020A

Lab ID: SC55978-03 **Client ID:** TW-1 082719

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	1.2		1.0	ug/l	8260C
1,1-Dichloroethane	33		1.0	ug/l	8260C
1,1-Dichloroethene	5.9		1.0	ug/l	8260C
Acetone	6.6		5.0	ug/l	8260C
cis-1,2-Dichloroethene	4.6		1.0	ug/l	8260C
Trichloroethene	42		1.0	ug/l	8260C

Lab ID: SC55978-04 **Client ID:** TW-2A 082719

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	2200		5.0	ug/l	8260C
1,1-Dichloroethane	400		5.0	ug/l	8260C
1,1-Dichloroethene	21		5.0	ug/l	8260C
cis-1,2-Dichloroethene	10		5.0	ug/l	8260C
Trichloroethene	560		5.0	ug/l	8260C

Lab ID: SC55978-05 **Client ID:** TW-3 082719

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
1,1,1-Trichloroethane	13		1.0	ug/l	8260C
1,1-Dichloroethane	22		1.0	ug/l	8260C
1,1-Dichloroethene	2.7		1.0	ug/l	8260C
Chloroethane	0.83	Ja	1.0	ug/l	8260C
cis-1,2-Dichloroethene	1.1		1.0	ug/l	8260C
Trichloroethene	44		1.0	ug/l	8260C

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.

Subcontracted Analyses

Subcontracted Analyses
Prepared by method 5030C

Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.27	1	8260C	06-Sep-19 16:38	06-Sep-19 16:38	11452	637413	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.24	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
76-13-1	1,1,2-Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.26	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.26	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	*	ug/l	1.0	0.36	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.66	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-Chloropropane	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.35	1	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 1.0		ug/l	1.0	0.23	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	*	ug/l	1.0	0.33	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.33	1	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 50		ug/l	50	28	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 2.0		ug/l	2.0	1.7	1	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 5.0		ug/l	5.0	1.9	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	1.1	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	*	ug/l	1.0	0.37	1	"	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	< 5.0		ug/l	5.0	1.3	1	"	"	"	"	"	
67-64-1	Acetone	< 5.0		ug/l	5.0	4.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 2.0		ug/l	2.0	0.77	1	"	"	"	"	"	
71-43-2	Benzene	< 1.0		ug/l	1.0	0.20	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.35	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.41	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.54	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.55	1	"	"	"	"	"	
75-15-0	Carbon disulfide	< 1.0		ug/l	1.0	0.82	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.21	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.32	1	8260C	06-Sep-19 16:38	06-Sep-19 16:38	11452	637413	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.33	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.40	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.22	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 1.0		ug/l	1.0	0.22	1	"	"	"	"	"	
110-82-7	Cyclohexane	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 1.0		ug/l	1.0	0.28	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.60	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
108-20-3	Diisopropyl ether	< 1.0		ug/l	1.0	0.45	1	"	"	"	"	"	
64-17-5	Ethanol	< 200	*	ug/l	200	60	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		ug/l	1.0	0.21	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.0		ug/l	1.0	0.41	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.30	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 1.0		ug/l	1.0	0.60	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
179601-23-1	m-Xylene & p-Xylene	< 1.0		ug/l	1.0	0.30	1	"	"	"	"	"	
79-20-9	Methyl acetate	< 5.0		ug/l	5.0	0.79	1	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	< 1.0		ug/l	1.0	0.47	1	"	"	"	"	"	
108-87-2	Methylcyclohexane	< 1.0		ug/l	1.0	0.26	1	"	"	"	"	"	
75-09-2	Methylene Chloride	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
103-65-1	N-Propylbenzene	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0	*	ug/l	1.0	0.88	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.36	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.42	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 1.0		ug/l	1.0	0.45	1	"	"	"	"	"	
75-65-0	tert-Butanol	< 10		ug/l	10	8.3	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 2.0		ug/l	2.0	1.0	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.24	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 1.0		ug/l	1.0	0.49	1	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-buten e	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.17	1	"	"	"	"	"	
1330-20-7	Xylenes, Total	< 2.0		ug/l	2.0	0.65	1	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4 (Surr)*	*98*			*74-132 %*			"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
EFF55 082719	60276639-1	Ground Water	27-Aug-19 15:25	28-Aug-19
SC55978-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
460-00-4	*4-Bromofluorobenzene*	*103*			*77-124 %*			8260C	06-Sep-19 16:38	-Sep-19 16:	11452	637413	
1868-53-7	*Dibromofluoromethane (Surr)*	*103*			*72-131 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8 (Surr)*	*100*			*80-120 %*			"	"	"	"	"	
Subcontracted Analyses													
Prepared by method General Preparation													
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
	HEM (oil & grease)	**2.0**	J	mg/l	5.0	1.4	1	EPA 1664B	05-Sep-19 15:34	05-Sep-19 15:34	10670	24880790	
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
	Total Dissolved Solids	**270**		mg/l	30.0	10.0	1	SM 2540 C	30-Aug-19 10:51	30-Aug-19 10:51	10670	24296490	
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
	Total Suspended Solids	< 3.00		mg/l	3.00	1.00	1	SM 2540 D	30-Aug-19 12:47	30-Aug-19 12:47	10670	24238580	
Subcontracted Analyses													
Prepared by method SW-846 3020A													
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
7429-90-5	Aluminum	< 0.400		mg/l	0.400	0.0197	1	SW-846 6020A	30-Aug-19 05:30	03-Sep-19 10:20	10670	24114047(	
7440-38-2	Arsenic	< 0.0020		mg/l	0.0020	0.00068	1	"	"	"	"	"	
7440-39-3	Barium	**0.0837**		mg/l	0.0040	0.00075	1	"	"	"	"	"	
7440-47-3	Chromium	**0.00077**	J	mg/l	0.0040	0.00070	1	"	"	"	"	"	
7440-50-8	Copper	< 0.0400		mg/l	0.0400	0.0099	1	"	"	"	"	"	
7439-89-6	Iron	< 0.100		mg/l	0.100	0.0228	1	"	"	"	"	"	
7439-96-5	Manganese	**0.0295**		mg/l	0.0100	0.0049	1	"	"	"	"	"	
7440-02-0	Nickel	**0.00084**	J	mg/l	0.0040	0.00060	1	"	"	10-Sep-19 07:50	"	"	
7440-66-6	Zinc	< 0.0150		mg/l	0.0150	0.0062	1	"	"	03-Sep-19 10:20	"	"	
Prepared by method METHOD													
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	30-Aug-19 06:55	30-Aug-19 12:38	10670	24105713	
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	SW-846 9012B	03-Sep-19 06:15	05-Sep-19 11:38	10670	24611710	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
INF 082719	60276639-1	Ground Water	27-Aug-19 15:15	28-Aug-19
SC55978-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 5030C													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
630-20-6	1,1,1,2-Tetrachloroethane	< 5.0		ug/l	5.0	1.3	5	8260C	09-Sep-19 11:10	09-Sep-19 11:10	11452	637863	
71-55-6	1,1,1-Trichloroethane	**920**		ug/l	5.0	1.2	5	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.0		ug/l	5.0	2.2	5	"	"	"	"	"	
76-13-1	1,1,2-Trichlorotrifluoroethane	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	**190**		ug/l	5.0	1.3	5	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	**13**		ug/l	5.0	1.3	5	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.0		ug/l	5.0	1.3	5	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.0		ug/l	5.0	3.3	5	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-Chloropropane	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.0		ug/l	5.0	2.5	5	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.0		ug/l	5.0	2.2	5	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.0		ug/l	5.0	2.2	5	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 5.0		ug/l	5.0	1.1	5	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.0		ug/l	5.0	2.5	5	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
123-91-1	1,4-Dioxane	**170**	Ja	ug/l	250	140	5	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 10		ug/l	10	8.5	5	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 25		ug/l	25	9.3	5	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	
591-78-6	2-Hexanone	< 25		ug/l	25	5.7	5	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	< 25		ug/l	25	6.5	5	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/l	25	22	5	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/l	10	3.8	5	"	"	"	"	"	
71-43-2	Benzene	< 5.0		ug/l	5.0	1.0	5	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.0		ug/l	5.0	2.1	5	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
75-25-2	Bromoform	< 5.0		ug/l	5.0	2.7	5	"	"	"	"	"	
74-83-9	Bromomethane	< 5.0		ug/l	5.0	2.8	5	"	"	"	"	"	
75-15-0	Carbon disulfide	< 5.0		ug/l	5.0	4.1	5	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.0		ug/l	5.0	1.0	5	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	

Subcontracted Analyses

Subcontracted Analyses

Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
75-00-3	Chloroethane	< 5.0		ug/l	5.0	1.6	5	8260C	09-Sep-19 11:10	09-Sep-19 11:10	11452	637863	
67-66-3	Chloroform	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
74-87-3	Chloromethane	< 5.0		ug/l	5.0	2.0	5	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	**6.0**		ug/l	5.0	1.1	5	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.0		ug/l	5.0	1.1	5	"	"	"	"	"	
110-82-7	Cyclohexane	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.0		ug/l	5.0	1.4	5	"	"	"	"	"	
74-95-3	Dibromomethane	< 5.0		ug/l	5.0	3.0	5	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
108-20-3	Diisopropyl ether	< 5.0		ug/l	5.0	2.3	5	"	"	"	"	"	
64-17-5	Ethanol	< 1000		ug/l	1000	300	5	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.0		ug/l	5.0	1.1	5	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.0		ug/l	5.0	2.0	5	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.0		ug/l	5.0	1.5	5	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.0		ug/l	5.0	3.0	5	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
179601-23-1	m-Xylene & p-Xylene	< 5.0		ug/l	5.0	1.5	5	"	"	"	"	"	
79-20-9	Methyl acetate	< 25		ug/l	25	3.9	5	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	< 5.0		ug/l	5.0	2.3	5	"	"	"	"	"	
108-87-2	Methylcyclohexane	< 5.0		ug/l	5.0	1.3	5	"	"	"	"	"	
75-09-2	Methylene Chloride	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
103-65-1	N-Propylbenzene	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
91-20-3	Naphthalene	< 5.0		ug/l	5.0	4.4	5	"	"	"	"	"	
95-47-6	o-Xylene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
100-42-5	Styrene	< 5.0		ug/l	5.0	2.1	5	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 5.0		ug/l	5.0	2.3	5	"	"	"	"	"	
75-65-0	tert-Butanol	< 50		ug/l	50	41	5	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.0		ug/l	5.0	1.2	5	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 10		ug/l	10	5.2	5	"	"	"	"	"	
108-88-3	Toluene	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.0		ug/l	5.0	1.2	5	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.0		ug/l	5.0	2.4	5	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
79-01-6	Trichloroethene	**270**		ug/l	5.0	1.6	5	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.0		ug/l	5.0	0.86	5	"	"	"	"	"	
1330-20-7	Xylenes, Total	< 10		ug/l	10	3.3	5	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4 (Surr)*	*99*			*74-132 %*			"	"	"	"	"	

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

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
460-00-4	4-Bromofluorobenzene	99			77-124 %			8260C	09-Sep-19 11:10	-Sep-19 11:	11452	637863	
1868-53-7	Dibromofluoromethane (Surr)	103			72-131 %			"	"	"	"	"	
2037-26-5	Toluene-d8 (Surr)	98			80-120 %			"	"	"	"	"	
Subcontracted Analyses													
Prepared by method General Preparation													
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
	HEM (oil & grease)	**2.2**	J	mg/l	5.0	1.4	1	EPA 1664B	05-Sep-19 15:34	05-Sep-19 15:34	10670	24880790	
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
	Total Dissolved Solids	**267**		mg/l	30.0	10.0	1	SM 2540 C	30-Aug-19 10:51	30-Aug-19 10:51	10670	24296490	
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
	Total Suspended Solids	< 3.00		mg/l	3.00	1.00	1	SM 2540 D	30-Aug-19 12:47	30-Aug-19 12:47	10670	24238580	
Subcontracted Analyses													
Prepared by method SW-846 3020A													
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
7429-90-5	Aluminum	< 0.400		mg/l	0.400	0.0197	1	SW-846 6020A	30-Aug-19 05:30	03-Sep-19 10:19	10670	24114047(	
7440-38-2	Arsenic	< 0.0020		mg/l	0.0020	0.00068	1	"	"	"	"	"	
7440-39-3	Barium	**0.0826**		mg/l	0.0040	0.00075	1	"	"	"	"	"	
7440-47-3	Chromium	**0.0012**	J	mg/l	0.0040	0.00070	1	"	"	"	"	"	
7440-50-8	Copper	< 0.0400		mg/l	0.0400	0.0099	1	"	"	"	"	"	
7439-89-6	Iron	**0.176**		mg/l	0.100	0.0228	1	"	"	"	"	"	
7439-96-5	Manganese	**0.356**		mg/l	0.0100	0.0049	1	"	"	"	"	"	
7440-02-0	Nickel	**0.0064**		mg/l	0.0040	0.00060	1	"	"	10-Sep-19 07:49	"	"	
7440-66-6	Zinc	**0.0116**	J	mg/l	0.0150	0.0062	1	"	"	03-Sep-19 10:19	"	"	
Prepared by method METHOD													
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.000050	1	SW-846 7470A	30-Aug-19 06:55	30-Aug-19 12:30	10670	24105713	
Analysis performed by Eurofins Lancaster Laboratories Environmental - 10670													
57-12-5	Total Cyanide (water)	< 0.010		mg/l	0.010	0.0050	1	SW-846 9012B	03-Sep-19 06:15	05-Sep-19 11:40	10670	24611710	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-1 082719	60276639-1	Ground Water	27-Aug-19 15:10	28-Aug-19
SC55978-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses Prepared by method 5030C													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.27	1	8260C	06-Sep-19 17:46	06-Sep-19 17:46	11452	637413	
71-55-6	1,1,1-Trichloroethane	**1.2**		ug/l	1.0	0.24	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
76-13-1	1,1,2-Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	**33**		ug/l	1.0	0.26	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	**5.9**		ug/l	1.0	0.26	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	*	ug/l	1.0	0.36	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.66	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-Chloropropane	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.35	1	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 1.0		ug/l	1.0	0.23	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	*	ug/l	1.0	0.33	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.33	1	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 50		ug/l	50	28	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 2.0		ug/l	2.0	1.7	1	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 5.0		ug/l	5.0	1.9	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	1.1	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	*	ug/l	1.0	0.37	1	"	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	< 5.0		ug/l	5.0	1.3	1	"	"	"	"	"	
67-64-1	Acetone	**6.6**		ug/l	5.0	4.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 2.0		ug/l	2.0	0.77	1	"	"	"	"	"	
71-43-2	Benzene	< 1.0		ug/l	1.0	0.20	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.35	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.41	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.54	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.55	1	"	"	"	"	"	
75-15-0	Carbon disulfide	< 1.0		ug/l	1.0	0.82	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.21	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-1 082719	60276639-1	Ground Water	27-Aug-19 15:10	28-Aug-19
SC55978-03				

Subcontracted Analyses

Subcontracted Analyses

Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.32	1	8260C	06-Sep-19 17:46	06-Sep-19 17:46	11452	637413	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.33	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.40	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	4.6		ug/l	1.0	0.22	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 1.0		ug/l	1.0	0.22	1	"	"	"	"	"	
110-82-7	Cyclohexane	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 1.0		ug/l	1.0	0.28	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.60	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
108-20-3	Diisopropyl ether	< 1.0		ug/l	1.0	0.45	1	"	"	"	"	"	
64-17-5	Ethanol	< 200	*	ug/l	200	60	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		ug/l	1.0	0.21	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.0		ug/l	1.0	0.41	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.30	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 1.0		ug/l	1.0	0.60	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
179601-23-1	m-Xylene & p-Xylene	< 1.0		ug/l	1.0	0.30	1	"	"	"	"	"	
79-20-9	Methyl acetate	< 5.0		ug/l	5.0	0.79	1	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	< 1.0		ug/l	1.0	0.47	1	"	"	"	"	"	
108-87-2	Methylcyclohexane	< 1.0		ug/l	1.0	0.26	1	"	"	"	"	"	
75-09-2	Methylene Chloride	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
103-65-1	N-Propylbenzene	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0	*	ug/l	1.0	0.88	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.36	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.42	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 1.0		ug/l	1.0	0.45	1	"	"	"	"	"	
75-65-0	tert-Butanol	< 10		ug/l	10	8.3	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 2.0		ug/l	2.0	1.0	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.24	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 1.0		ug/l	1.0	0.49	1	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-buten e	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
79-01-6	Trichloroethene	42		ug/l	1.0	0.31	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.17	1	"	"	"	"	"	
1330-20-7	Xylenes, Total	< 2.0		ug/l	2.0	0.65	1	"	"	"	"	"	

Surrogate recoveries:

17060-07-0	*1,2-Dichloroethane-d4 (Surr)*	*100*			*74-132 %*			"	"	"	"	"	

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-1 082719 SC55978-03	60276639-1	Ground Water	27-Aug-19 15:10	28-Aug-19

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
460-00-4	4-Bromofluorobenzene	102			77-124 %			8260C	06-Sep-19 17:46	-Sep-19 17:	11452	637413	
1868-53-7	Dibromofluoromethane (Surr)	103			72-131 %			"	"	"	"	"	
2037-26-5	Toluene-d8 (Surr)	98			80-120 %			"	"	"	"	"	

Subcontracted Analyses

Subcontracted Analyses
Prepared by method 5030C

Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
630-20-6	1,1,1,2-Tetrachloroethane	< 5.0		ug/l	5.0	1.3	5	8260C	06-Sep-19 18:32	06-Sep-19 18:32	11452	637413	
71-55-6	1,1,1-Trichloroethane	**2,200**		ug/l	5.0	1.2	5	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 5.0		ug/l	5.0	2.2	5	"	"	"	"	"	
76-13-1	1,1,2-Trichlorotrifluoroethane	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	**400**		ug/l	5.0	1.3	5	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	**21**		ug/l	5.0	1.3	5	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 5.0		ug/l	5.0	1.3	5	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 5.0	*	ug/l	5.0	1.8	5	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 5.0		ug/l	5.0	3.3	5	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-Chloropropane	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 5.0		ug/l	5.0	2.5	5	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 5.0		ug/l	5.0	2.2	5	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 5.0		ug/l	5.0	2.2	5	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 5.0		ug/l	5.0	1.1	5	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 5.0	*	ug/l	5.0	1.6	5	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 5.0		ug/l	5.0	2.5	5	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 250		ug/l	250	140	5	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 10		ug/l	10	8.5	5	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 25		ug/l	25	9.3	5	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	
591-78-6	2-Hexanone	< 25		ug/l	25	5.7	5	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 5.0	*	ug/l	5.0	1.9	5	"	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	< 25		ug/l	25	6.5	5	"	"	"	"	"	
67-64-1	Acetone	< 25		ug/l	25	22	5	"	"	"	"	"	
107-13-1	Acrylonitrile	< 10		ug/l	10	3.8	5	"	"	"	"	"	
71-43-2	Benzene	< 5.0		ug/l	5.0	1.0	5	"	"	"	"	"	
108-86-1	Bromobenzene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
74-97-5	Bromochloromethane	< 5.0		ug/l	5.0	2.1	5	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
75-25-2	Bromoform	< 5.0		ug/l	5.0	2.7	5	"	"	"	"	"	
74-83-9	Bromomethane	< 5.0		ug/l	5.0	2.8	5	"	"	"	"	"	
75-15-0	Carbon disulfide	< 5.0		ug/l	5.0	4.1	5	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 5.0		ug/l	5.0	1.0	5	"	"	"	"	"	
108-90-7	Chlorobenzene	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-2A 082719	60276639-1	Ground Water	27-Aug-19 15:30	28-Aug-19
SC55978-04				

Subcontracted Analyses

Subcontracted Analyses

Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
75-00-3	Chloroethane	< 5.0		ug/l	5.0	1.6	5	8260C	06-Sep-19 18:32	06-Sep-19 18:32	11452	637413	
67-66-3	Chloroform	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
74-87-3	Chloromethane	< 5.0		ug/l	5.0	2.0	5	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	**10**		ug/l	5.0	1.1	5	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 5.0		ug/l	5.0	1.1	5	"	"	"	"	"	
110-82-7	Cyclohexane	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 5.0		ug/l	5.0	1.4	5	"	"	"	"	"	
74-95-3	Dibromomethane	< 5.0		ug/l	5.0	3.0	5	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
108-20-3	Diisopropyl ether	< 5.0		ug/l	5.0	2.3	5	"	"	"	"	"	
64-17-5	Ethanol	< 1000	*	ug/l	1000	300	5	"	"	"	"	"	
60-29-7	Ethyl ether	< 5.0		ug/l	5.0	1.1	5	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 5.0		ug/l	5.0	2.0	5	"	"	"	"	"	
100-41-4	Ethylbenzene	< 5.0		ug/l	5.0	1.5	5	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 5.0		ug/l	5.0	3.0	5	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
179601-23-1	m-Xylene & p-Xylene	< 5.0		ug/l	5.0	1.5	5	"	"	"	"	"	
79-20-9	Methyl acetate	< 25		ug/l	25	3.9	5	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	< 5.0		ug/l	5.0	2.3	5	"	"	"	"	"	
108-87-2	Methylcyclohexane	< 5.0		ug/l	5.0	1.3	5	"	"	"	"	"	
75-09-2	Methylene Chloride	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
103-65-1	N-Propylbenzene	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
91-20-3	Naphthalene	< 5.0	*	ug/l	5.0	4.4	5	"	"	"	"	"	
95-47-6	o-Xylene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 5.0		ug/l	5.0	1.8	5	"	"	"	"	"	
100-42-5	Styrene	< 5.0		ug/l	5.0	2.1	5	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 5.0		ug/l	5.0	2.3	5	"	"	"	"	"	
75-65-0	tert-Butanol	< 50		ug/l	50	41	5	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 5.0		ug/l	5.0	1.2	5	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 10		ug/l	10	5.2	5	"	"	"	"	"	
108-88-3	Toluene	< 5.0		ug/l	5.0	1.9	5	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 5.0		ug/l	5.0	1.2	5	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 5.0		ug/l	5.0	2.4	5	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-buten e	< 5.0		ug/l	5.0	1.7	5	"	"	"	"	"	
79-01-6	Trichloroethene	**560**		ug/l	5.0	1.6	5	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 5.0		ug/l	5.0	1.6	5	"	"	"	"	"	
75-01-4	Vinyl chloride	< 5.0		ug/l	5.0	0.86	5	"	"	"	"	"	
1330-20-7	Xylenes, Total	< 10		ug/l	10	3.3	5	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4 (Surr)*	*96*			*74-132 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-2A 082719 SC55978-04	60276639-1	Ground Water	27-Aug-19 15:30	28-Aug-19

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
460-00-4	4-Bromofluorobenzene	98			77-124 %			8260C	06-Sep-19 18:32	-Sep-19 18:	11452	637413	
1868-53-7	Dibromofluoromethane (Surr)	102			72-131 %			"	"	"	"	"	
2037-26-5	Toluene-d8 (Surr)	96			80-120 %			"	"	"	"	"	

Subcontracted Analyses

Subcontracted Analyses
Prepared by method 5030C

Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.27	1	8260C	06-Sep-19 17:00	06-Sep-19 17:00	11452	637413	
71-55-6	1,1,1-Trichloroethane	13		ug/l	1.0	0.24	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
76-13-1	1,1,2-Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	22		ug/l	1.0	0.26	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	2.7		ug/l	1.0	0.26	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	*	ug/l	1.0	0.36	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.66	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-Chloropropane	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.35	1	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 1.0		ug/l	1.0	0.23	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	*	ug/l	1.0	0.33	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.33	1	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 50		ug/l	50	28	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 2.0		ug/l	2.0	1.7	1	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 5.0		ug/l	5.0	1.9	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	1.1	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	*	ug/l	1.0	0.37	1	"	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	< 5.0		ug/l	5.0	1.3	1	"	"	"	"	"	
67-64-1	Acetone	< 5.0		ug/l	5.0	4.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 2.0		ug/l	2.0	0.77	1	"	"	"	"	"	
71-43-2	Benzene	< 1.0		ug/l	1.0	0.20	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.35	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.41	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.54	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.55	1	"	"	"	"	"	
75-15-0	Carbon disulfide	< 1.0		ug/l	1.0	0.82	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.21	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	

Subcontracted Analyses

Subcontracted Analyses

Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
75-00-3	Chloroethane	**0.83**	Ja	ug/l	1.0	0.32	1	8260C	06-Sep-19 17:00	06-Sep-19 17:00	11452	637413	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.33	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.40	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	**1.1**		ug/l	1.0	0.22	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 1.0		ug/l	1.0	0.22	1	"	"	"	"	"	
110-82-7	Cyclohexane	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 1.0		ug/l	1.0	0.28	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.60	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
108-20-3	Diisopropyl ether	< 1.0		ug/l	1.0	0.45	1	"	"	"	"	"	
64-17-5	Ethanol	< 200	*	ug/l	200	60	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		ug/l	1.0	0.21	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.0		ug/l	1.0	0.41	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.30	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 1.0		ug/l	1.0	0.60	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
179601-23-1	m-Xylene & p-Xylene	< 1.0		ug/l	1.0	0.30	1	"	"	"	"	"	
79-20-9	Methyl acetate	< 5.0		ug/l	5.0	0.79	1	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	< 1.0		ug/l	1.0	0.47	1	"	"	"	"	"	
108-87-2	Methylcyclohexane	< 1.0		ug/l	1.0	0.26	1	"	"	"	"	"	
75-09-2	Methylene Chloride	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
103-65-1	N-Propylbenzene	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0	*	ug/l	1.0	0.88	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.36	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.42	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 1.0		ug/l	1.0	0.45	1	"	"	"	"	"	
75-65-0	tert-Butanol	< 10		ug/l	10	8.3	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 2.0		ug/l	2.0	1.0	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.24	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 1.0		ug/l	1.0	0.49	1	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-buten e	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
79-01-6	Trichloroethene	**44**		ug/l	1.0	0.31	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.17	1	"	"	"	"	"	
1330-20-7	Xylenes, Total	< 2.0		ug/l	2.0	0.65	1	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4 (Surr)*	*96*			*74-132 %*			"	"	"	"	"	

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TW-3 082719 SC55978-05	60276639-1	Ground Water	27-Aug-19 15:35	28-Aug-19

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
460-00-4	4-Bromofluorobenzene	101			77-124 %			8260C	06-Sep-19 17:00	-Sep-19 17:	11452	637413	
1868-53-7	Dibromofluoromethane (Surr)	102			72-131 %			"	"	"	"	"	
2037-26-5	Toluene-d8 (Surr)	99			80-120 %			"	"	"	"	"	

Subcontracted Analyses

Subcontracted Analyses
Prepared by method 5030C

Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
630-20-6	1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.27	1	8260C	06-Sep-19 17:23	06-Sep-19 17:23	11452	637413	
71-55-6	1,1,1-Trichloroethane	< 1.0		ug/l	1.0	0.24	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
76-13-1	1,1,2-Trichlorotrifluoroethane	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.0		ug/l	1.0	0.26	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.0		ug/l	1.0	0.26	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.0	*	ug/l	1.0	0.36	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.0		ug/l	1.0	0.66	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-Chloropropane	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.0		ug/l	1.0	0.43	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.0		ug/l	1.0	0.35	1	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 1.0		ug/l	1.0	0.23	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.0	*	ug/l	1.0	0.33	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.0		ug/l	1.0	0.50	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.0		ug/l	1.0	0.33	1	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 50		ug/l	50	28	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 2.0		ug/l	2.0	1.7	1	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 5.0		ug/l	5.0	1.9	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
591-78-6	2-Hexanone	< 5.0		ug/l	5.0	1.1	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.0	*	ug/l	1.0	0.37	1	"	"	"	"	"	
99-87-6	4-Isopropyltoluene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	< 5.0		ug/l	5.0	1.3	1	"	"	"	"	"	
67-64-1	Acetone	< 5.0		ug/l	5.0	4.4	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 2.0		ug/l	2.0	0.77	1	"	"	"	"	"	
71-43-2	Benzene	< 1.0		ug/l	1.0	0.20	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.0		ug/l	1.0	0.35	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.0		ug/l	1.0	0.41	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.0		ug/l	1.0	0.54	1	"	"	"	"	"	
74-83-9	Bromomethane	< 1.0		ug/l	1.0	0.55	1	"	"	"	"	"	
75-15-0	Carbon disulfide	< 1.0		ug/l	1.0	0.82	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.0		ug/l	1.0	0.21	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TB 082719 SC55978-06	60276639-1	Trip Blank	27-Aug-19 00:00	28-Aug-19

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
75-00-3	Chloroethane	< 1.0		ug/l	1.0	0.32	1	8260C	06-Sep-19 17:23	06-Sep-19 17:23	11452	637413	
67-66-3	Chloroform	< 1.0		ug/l	1.0	0.33	1	"	"	"	"	"	
74-87-3	Chloromethane	< 1.0		ug/l	1.0	0.40	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.22	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 1.0		ug/l	1.0	0.22	1	"	"	"	"	"	
110-82-7	Cyclohexane	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 1.0		ug/l	1.0	0.28	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.0		ug/l	1.0	0.60	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
108-20-3	Diisopropyl ether	< 1.0		ug/l	1.0	0.45	1	"	"	"	"	"	
64-17-5	Ethanol	< 200	*	ug/l	200	60	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.0		ug/l	1.0	0.21	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.0		ug/l	1.0	0.41	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.0		ug/l	1.0	0.30	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 1.0		ug/l	1.0	0.60	1	"	"	"	"	"	
98-82-8	Isopropylbenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
179601-23-1	m-Xylene & p-Xylene	< 1.0		ug/l	1.0	0.30	1	"	"	"	"	"	
79-20-9	Methyl acetate	< 5.0		ug/l	5.0	0.79	1	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	< 1.0		ug/l	1.0	0.47	1	"	"	"	"	"	
108-87-2	Methylcyclohexane	< 1.0		ug/l	1.0	0.26	1	"	"	"	"	"	
75-09-2	Methylene Chloride	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
103-65-1	N-Propylbenzene	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.0	*	ug/l	1.0	0.88	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.0		ug/l	1.0	0.36	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.0		ug/l	1.0	0.37	1	"	"	"	"	"	
100-42-5	Styrene	< 1.0		ug/l	1.0	0.42	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 1.0		ug/l	1.0	0.45	1	"	"	"	"	"	
75-65-0	tert-Butanol	< 10		ug/l	10	8.3	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.0		ug/l	1.0	0.25	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 2.0		ug/l	2.0	1.0	1	"	"	"	"	"	
108-88-3	Toluene	< 1.0		ug/l	1.0	0.38	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.0		ug/l	1.0	0.24	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 1.0		ug/l	1.0	0.49	1	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-buten e	< 1.0		ug/l	1.0	0.34	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.0		ug/l	1.0	0.31	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane	< 1.0		ug/l	1.0	0.32	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.0		ug/l	1.0	0.17	1	"	"	"	"	"	
1330-20-7	Xylenes, Total	< 2.0		ug/l	2.0	0.65	1	"	"	"	"	"	
Surrogate recoveries:													
17060-07-0	*1,2-Dichloroethane-d4 (Surr)*	*93*			*74-132 %*			"	"	"	"	"	

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
TB 082719 SC55978-06	60276639-1	Trip Blank	27-Aug-19 00:00	28-Aug-19

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Subcontracted Analyses													
Subcontracted Analyses													
Analysis performed by TestAmerica Analytical Testing Corp.-Edison, NJ - 11452													
460-00-4	4-Bromofluorobenzene	97			77-124 %			8260C	06-Sep-19 17:23	-Sep-19 17:	11452	637413	
1868-53-7	Dibromofluoromethane (Surr)	97			72-131 %			"	"	"	"	"	
2037-26-5	Toluene-d8 (Surr)	93			80-120 %			"	"	"	"	"	

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8260C										
Batch 637413 - 5030C										
LCS (637413-16)					Prepared & Analyzed: 06-Sep-19					
Dichlorodifluoromethane	**18.3**		ug/l	1.0	20.0		91	50-131		
Methyl tert-butyl ether	**17.0**		ug/l	1.0	20.0		85	79-122		
Methyl acetate	**34.3**		ug/l	5.0	40.0		86	66-144		
Isopropylbenzene	**15.9**		ug/l	1.0	20.0		80	80-123		
Hexachlorobutadiene	**17.1**		ug/l	1.0	20.0		85	66-136		
Ethylbenzene	**16.7**		ug/l	1.0	20.0		83	80-120		
Ethyl tert-butyl ether	**16.7**		ug/l	1.0	20.0		83	79-125		
Ethyl ether	**17.1**		ug/l	1.0	20.0		85	68-136		
Chloroethane	**16.4**		ug/l	1.0	20.0		82	52-150		
Diisopropyl ether	**16.6**		ug/l	1.0	20.0		83	70-141		
m-Xylene & p-Xylene	**17.1**		ug/l	1.0	20.0		86	80-120		
Dibromomethane	**16.3**		ug/l	1.0	20.0		82	79-120		
Dibromochloromethane	**16.0**		ug/l	1.0	20.0		80	73-120		
Cyclohexane	**16.7**		ug/l	1.0	20.0		84	56-150		
cis-1,3-Dichloropropene	**16.1**		ug/l	1.0	20.0		80	77-120		
cis-1,2-Dichloroethene	**17.4**		ug/l	1.0	20.0		87	80-120		
Chloromethane	**17.5**		ug/l	1.0	20.0		88	56-131		
Vinyl chloride	**17.7**		ug/l	1.0	20.0		89	62-138		
Ethanol	**511**	*	ug/l	200	800		64	67-150		
tert-Butanol	**172**		ug/l	10	200		86	22-150		
Trichlorofluoromethane	**17.2**		ug/l	1.0	20.0		86	71-143		
Trichloroethene	**16.1**		ug/l	1.0	20.0		81	77-120		
trans-1,4-Dichloro-2-butene	**15.6**		ug/l	1.0	20.0		78	61-122		
trans-1,3-Dichloropropene	**15.9**		ug/l	1.0	20.0		79	76-120		
trans-1,2-Dichloroethene	**16.7**		ug/l	1.0	20.0		84	79-120		
Toluene	**17.5**		ug/l	1.0	20.0		87	80-120		
Tetrahydrofuran	**35.2**		ug/l	2.0	40.0		88	79-122		
Methylcyclohexane	**17.0**		ug/l	1.0	20.0		85	61-145		
tert-Butylbenzene	**17.7**		ug/l	1.0	20.0		88	79-120		
Methylene Chloride	**16.3**		ug/l	1.0	20.0		82	77-123		
Tert-amyl methyl ether	**16.9**		ug/l	1.0	20.0		85	80-120		
Styrene	**17.6**		ug/l	1.0	20.0		88	80-120		
sec-Butylbenzene	**17.4**		ug/l	1.0	20.0		87	75-128		
o-Xylene	**17.5**		ug/l	1.0	20.0		87	80-120		
N-Propylbenzene	**17.2**		ug/l	1.0	20.0		86	80-123		
n-Butylbenzene	**17.4**		ug/l	1.0	20.0		87	72-133		
Naphthalene	**21.7**		ug/l	1.0	20.0		109	70-150		
Chlorobenzene	**17.4**		ug/l	1.0	20.0		87	80-120		
Tetrachloroethene	**16.8**		ug/l	1.0	20.0		84	78-122		
1,1-Dichloropropene	**16.0**		ug/l	1.0	20.0		80	78-128		
1,2-Dichloropropane	**17.0**		ug/l	1.0	20.0		85	77-123		
1,2-Dichloroethane	**16.1**		ug/l	1.0	20.0		80	76-121		
1,2-Dichlorobenzene	**16.7**		ug/l	1.0	20.0		83	80-120		
1,2-Dibromoethane	**16.3**		ug/l	1.0	20.0		81	80-120		
1,2-Dibromo-3-Chloropropane	**17.1**		ug/l	1.0	20.0		85	55-134		
1,2,4-Trimethylbenzene	**17.1**		ug/l	1.0	20.0		85	78-122		
1,2,4-Trichlorobenzene	**18.5**		ug/l	1.0	20.0		92	80-124		
Chloroform	**17.0**		ug/l	1.0	20.0		85	80-120		
1,2,3-Trichlorobenzene	**21.0**		ug/l	1.0	20.0		105	78-131		
1,3-Dichloropropane	**16.8**		ug/l	1.0	20.0		84	77-120		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8260C										
Batch 637413 - 5030C										
LCS (637413-16)					Prepared & Analyzed: 06-Sep-19					
1,1-Dichloroethene	**16.2**		ug/l	1.0	20.0		81	74-123		
1,1-Dichloroethane	**16.9**		ug/l	1.0	20.0		84	77-123		
1,1,2-Trichlorotrifluoroethane	**16.4**		ug/l	1.0	20.0		82	59-150		
1,1,2-Trichloroethane	**16.3**		ug/l	1.0	20.0		82	78-120		
1,1,2,2-Tetrachloroethane	**16.7**		ug/l	1.0	20.0		83	74-120		
1,1,1-Trichloroethane	**16.9**		ug/l	1.0	20.0		85	75-125		
1,1,1,2-Tetrachloroethane	**16.7**		ug/l	1.0	20.0		84	77-120		
1,2,3-Trichloropropane	**16.6**		ug/l	1.0	20.0		83	76-120		
Acetone	**76.6**		ug/l	5.0	100		77	39-150		
Carbon tetrachloride	**16.3**		ug/l	1.0	20.0		81	70-132		
Carbon disulfide	**15.5**		ug/l	1.0	20.0		77	69-133		
Bromomethane	**17.6**		ug/l	1.0	20.0		88	10-150		
Bromoform	**15.8**		ug/l	1.0	20.0		79	53-120		
Bromodichloromethane	**16.3**		ug/l	1.0	20.0		82	76-120		
Bromochloromethane	**16.2**		ug/l	1.0	20.0		81	77-127		
Bromobenzene	**16.9**		ug/l	1.0	20.0		85	80-120		
1,3,5-Trimethylbenzene	**18.1**		ug/l	1.0	20.0		91	80-120		
Acrylonitrile	**167**		ug/l	2.0	200		84	68-135		
1,3-Dichlorobenzene	**17.3**		ug/l	1.0	20.0		86	80-120		
4-Methyl-2-pentanone (MIBK)	**93.6**		ug/l	5.0	100		94	78-124		
4-Isopropyltoluene	**17.3**		ug/l	1.0	20.0		87	75-122		
4-Chlorotoluene	**18.1**		ug/l	1.0	20.0		91	80-120		
2-Hexanone	**94.4**		ug/l	5.0	100		94	71-125		
2-Chlorotoluene	**17.9**		ug/l	1.0	20.0		90	80-120		
2,2-Dichloropropane	**18.6**		ug/l	2.0	20.0		93	77-122		
1,4-Dichlorobenzene	**17.4**		ug/l	1.0	20.0		87	80-120		
2-Butanone (MEK)	**85.1**		ug/l	5.0	100		85	64-120		
Benzene	**17.5**		ug/l	1.0	20.0		87	77-121		
1,4-Dioxane	**459**		ug/l	50	400		115	10-150		
Surrogate: 1,2-Dichloroethane-d4 (Surr)	*40.6*		ug/l		*50.0*		*81*	*74-132*		
Surrogate: Toluene-d8 (Surr)	*40.5*		ug/l		*50.0*		*81*	*80-120*		
Surrogate: Dibromofluoromethane (Surr)	*41.7*		ug/l		*50.0*		*83*	*72-131*		
Surrogate: 4-Bromofluorobenzene	*41.1*		ug/l		*50.0*		*82*	*77-124*		
LCS Dup (637413-17)					Prepared & Analyzed: 06-Sep-19					
Bromochloromethane	**21.1**		ug/l	1.0	20.0		106	77-127	26	30
2-Hexanone	**116**		ug/l	5.0	100		116	71-125	21	30
4-Chlorotoluene	**24.1**	*	ug/l	1.0	20.0		121	80-120	28	30
4-Isopropyltoluene	**22.9**		ug/l	1.0	20.0		115	75-122	28	30
4-Methyl-2-pentanone (MIBK)	**114**		ug/l	5.0	100		114	78-124	19	30
Acetone	**95.5**		ug/l	5.0	100		95	39-150	22	30
Acrylonitrile	**208**		ug/l	2.0	200		104	68-135	22	30
2-Chlorotoluene	**23.4**		ug/l	1.0	20.0		117	80-120	27	30
Bromobenzene	**21.5**		ug/l	1.0	20.0		108	80-120	24	30
1,4-Dioxane	**446**		ug/l	50	400		112	10-150	3	30
Bromodichloromethane	**20.6**		ug/l	1.0	20.0		103	76-120	23	30
Bromoform	**20.4**		ug/l	1.0	20.0		102	53-120	25	30
Bromomethane	**23.0**		ug/l	1.0	20.0		115	10-150	27	30
Carbon disulfide	**20.4**		ug/l	1.0	20.0		102	69-133	27	30
Carbon tetrachloride	**21.2**		ug/l	1.0	20.0		106	70-132	27	30
Chlorobenzene	**22.8**		ug/l	1.0	20.0		114	80-120	27	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8260C										
Batch 637413 - 5030C										
LCS Dup (637413-17)					Prepared & Analyzed: 06-Sep-19					
Benzene	**22.5**		ug/l	1.0	20.0		113	77-121	25	30
1,2-Dichloroethane	**21.2**		ug/l	1.0	20.0		106	76-121	27	30
1,1-Dichloroethene	**20.1**		ug/l	1.0	20.0		101	74-123	21	30
1,1-Dichloropropene	**20.8**		ug/l	1.0	20.0		104	78-128	26	30
1,2,3-Trichlorobenzene	**28.5**	*	ug/l	1.0	20.0		143	78-131	30	30
1,2,3-Trichloropropane	**21.3**		ug/l	1.0	20.0		106	76-120	25	30
1,2,4-Trichlorobenzene	**24.0**		ug/l	1.0	20.0		120	80-124	26	30
1,2,4-Trimethylbenzene	**22.4**		ug/l	1.0	20.0		112	78-122	27	30
1,2-Dibromo-3-Chloropropane	**21.6**		ug/l	1.0	20.0		108	55-134	24	30
2-Butanone (MEK)	**103**		ug/l	5.0	100		103	64-120	19	30
1,2-Dichlorobenzene	**21.9**		ug/l	1.0	20.0		110	80-120	27	30
Chloroform	**22.1**		ug/l	1.0	20.0		110	80-120	26	30
1,2-Dichloropropane	**22.4**		ug/l	1.0	20.0		112	77-123	28	30
1,3,5-Trimethylbenzene	**24.2**	*	ug/l	1.0	20.0		121	80-120	29	30
1,3-Dichlorobenzene	**22.5**		ug/l	1.0	20.0		113	80-120	26	30
1,3-Dichloropropane	**21.1**		ug/l	1.0	20.0		105	77-120	23	30
1,4-Dichlorobenzene	**22.6**		ug/l	1.0	20.0		113	80-120	26	30
Cyclohexane	**21.6**		ug/l	1.0	20.0		108	56-150	26	30
2,2-Dichloropropane	**22.7**		ug/l	2.0	20.0		114	77-122	20	30
1,2-Dibromoethane	**21.1**		ug/l	1.0	20.0		105	80-120	26	30
Tetrahydrofuran	**39.9**		ug/l	2.0	40.0		100	79-122	13	30
cis-1,2-Dichloroethene	**23.3**		ug/l	1.0	20.0		117	80-120	29	30
N-Propylbenzene	**22.8**		ug/l	1.0	20.0		114	80-123	28	30
o-Xylene	**22.9**		ug/l	1.0	20.0		115	80-120	27	30
sec-Butylbenzene	**22.9**		ug/l	1.0	20.0		115	75-128	27	30
Styrene	**23.5**		ug/l	1.0	20.0		117	80-120	29	30
Tert-amyl methyl ether	**22.1**		ug/l	1.0	20.0		110	80-120	26	30
tert-Butanol	**222**		ug/l	10	200		111	22-150	25	30
Naphthalene	**30.1**	*	ug/l	1.0	20.0		150	70-150	32	30
Tetrachloroethene	**21.0**		ug/l	1.0	20.0		105	78-122	22	30
m-Xylene & p-Xylene	**22.1**		ug/l	1.0	20.0		110	80-120	25	30
Toluene	**22.5**		ug/l	1.0	20.0		113	80-120	25	30
trans-1,2-Dichloroethene	**21.4**		ug/l	1.0	20.0		107	79-120	25	30
trans-1,3-Dichloropropene	**19.9**		ug/l	1.0	20.0		100	76-120	22	30
trans-1,4-Dichloro-2-butene	**20.2**		ug/l	1.0	20.0		101	61-122	26	30
Trichloroethene	**20.5**		ug/l	1.0	20.0		103	77-120	24	30
Trichlorofluoromethane	**23.0**		ug/l	1.0	20.0		115	71-143	29	30
1,1,2-Trichlorotrifluoroethane	**21.2**		ug/l	1.0	20.0		106	59-150	26	30
tert-Butylbenzene	**23.1**		ug/l	1.0	20.0		115	79-120	26	30
Ethylbenzene	**21.8**		ug/l	1.0	20.0		109	80-120	27	30
cis-1,3-Dichloropropene	**20.5**		ug/l	1.0	20.0		102	77-120	24	30
Chloroethane	**21.5**		ug/l	1.0	20.0		108	52-150	27	30
Dibromochloromethane	**20.4**		ug/l	1.0	20.0		102	73-120	24	30
Dibromomethane	**20.6**		ug/l	1.0	20.0		103	79-120	23	30
Dichlorodifluoromethane	**24.3**		ug/l	1.0	20.0		121	50-131	28	30
Diisopropyl ether	**21.6**		ug/l	1.0	20.0		108	70-141	27	30
Ethanol	**845**	*	ug/l	200	800		106	67-150	49	30
n-Butylbenzene	**23.0**		ug/l	1.0	20.0		115	72-133	28	30
Ethyl tert-butyl ether	**21.2**		ug/l	1.0	20.0		106	79-125	24	30
1,1-Dichloroethane	**22.2**		ug/l	1.0	20.0		111	77-123	27	30

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8260C										
Batch 637413 - 5030C										
LCS Dup (637413-17)					Prepared & Analyzed: 06-Sep-19					
Hexachlorobutadiene	**22.5**		ug/l	1.0	20.0		112	66-136	27	30
Isopropylbenzene	**20.9**		ug/l	1.0	20.0		104	80-123	27	30
Methyl acetate	**43.4**		ug/l	5.0	40.0		109	66-144	23	30
Vinyl chloride	**23.2**		ug/l	1.0	20.0		116	62-138	27	30
Methyl tert-butyl ether	**21.5**		ug/l	1.0	20.0		107	79-122	23	30
Methylcyclohexane	**22.5**		ug/l	1.0	20.0		112	61-145	27	30
Methylene Chloride	**20.4**		ug/l	1.0	20.0		102	77-123	22	30
Ethyl ether	**21.8**		ug/l	1.0	20.0		109	68-136	24	30
1,1,1-Trichloroethane	**22.1**		ug/l	1.0	20.0		111	75-125	27	30
Chloromethane	**22.8**		ug/l	1.0	20.0		114	56-131	26	30
1,1,1,2-Tetrachloroethane	**21.2**		ug/l	1.0	20.0		106	77-120	23	30
1,1,2-Trichloroethane	**21.6**		ug/l	1.0	20.0		108	78-120	28	30
1,1,2,2-Tetrachloroethane	**21.9**		ug/l	1.0	20.0		109	74-120	27	30
Surrogate: Toluene-d8 (Surr)	*46.1*		ug/l		*50.0*		*92*	*80-120*		
Surrogate: 1,2-Dichloroethane-d4 (Surr)	*47.1*		ug/l		*50.0*		*94*	*74-132*		
Surrogate: Dibromofluoromethane (Surr)	*47.5*		ug/l		*50.0*		*95*	*72-131*		
Surrogate: 4-Bromofluorobenzene	*45.8*		ug/l		*50.0*		*92*	*77-124*		
Blank (637413-20)					Prepared & Analyzed: 06-Sep-19					
Acetone	< 5.0		ug/l	5.0				-		
1,4-Dioxane	< 50		ug/l	50				-		
2,2-Dichloropropane	< 2.0		ug/l	2.0				-		
2-Butanone (MEK)	< 5.0		ug/l	5.0				-		
2-Chlorotoluene	< 1.0		ug/l	1.0				-		
2-Hexanone	< 5.0		ug/l	5.0				-		
4-Chlorotoluene	< 1.0		ug/l	1.0				-		
1,4-Dichlorobenzene	< 1.0		ug/l	1.0				-		
4-Methyl-2-pentanone (MIBK)	< 5.0		ug/l	5.0				-		
1,3,5-Trichlorobenzene	< 1.0		ug/l	1.0				-		
Acrylonitrile	< 2.0		ug/l	2.0				-		
Benzene	< 1.0		ug/l	1.0				-		
Bromobenzene	< 1.0		ug/l	1.0				-		
Bromochloromethane	< 1.0		ug/l	1.0				-		
Xylenes, Total	< 2.0		ug/l	2.0				-		
Bromodichloromethane	< 1.0		ug/l	1.0				-		
1,1,2,2-Tetrachloroethane	< 1.0		ug/l	1.0				-		
4-Isopropyltoluene	< 1.0		ug/l	1.0				-		
1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0				-		
1,1,1-Trichloroethane	< 1.0		ug/l	1.0				-		
1,1,2-Trichloroethane	< 1.0		ug/l	1.0				-		
1,1,2-Trichlorotrifluoroethane	< 1.0		ug/l	1.0				-		
1,1-Dichloroethane	< 1.0		ug/l	1.0				-		
1,1-Dichloroethene	< 1.0		ug/l	1.0				-		
1,1-Dichloropropene	< 1.0		ug/l	1.0				-		
1,2,3-Trichlorobenzene	**0.528**	Ja	ug/l	1.0				-		
1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0				-		
1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0				-		
1,3-Dichloropropane	< 1.0		ug/l	1.0				-		
1,2-Dibromo-3-Chloropropane	< 1.0		ug/l	1.0				-		
1,2-Dibromoethane	< 1.0		ug/l	1.0				-		
1,2-Dichlorobenzene	< 1.0		ug/l	1.0				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8260C										
Batch 637413 - 5030C										
Blank (637413-20)						Prepared & Analyzed: 06-Sep-19				
1,2-Dichloroethane	< 1.0		ug/l	1.0				-		
1,2-Dichloropropane	< 1.0		ug/l	1.0				-		
Carbon disulfide	< 1.0		ug/l	1.0				-		
1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0				-		
1,3-Dichlorobenzene	< 1.0		ug/l	1.0				-		
1,2,3-Trichloropropane	< 1.0		ug/l	1.0				-		
tert-Butylbenzene	< 1.0		ug/l	1.0				-		
Bromoform	< 1.0		ug/l	1.0				-		
m-Xylene & p-Xylene	< 1.0		ug/l	1.0				-		
Naphthalene	< 1.0		ug/l	1.0				-		
n-Butylbenzene	< 1.0		ug/l	1.0				-		
N-Propylbenzene	< 1.0		ug/l	1.0				-		
o-Xylene	< 1.0		ug/l	1.0				-		
sec-Butylbenzene	< 1.0		ug/l	1.0				-		
Styrene	< 1.0		ug/l	1.0				-		
Methylcyclohexane	< 1.0		ug/l	1.0				-		
tert-Butanol	< 10		ug/l	10				-		
Methyl tert-butyl ether	< 1.0		ug/l	1.0				-		
Tetrachloroethene	< 1.0		ug/l	1.0				-		
Tetrahydrofuran	< 2.0		ug/l	2.0				-		
Toluene	< 1.0		ug/l	1.0				-		
trans-1,2-Dichloroethene	< 1.0		ug/l	1.0				-		
trans-1,3-Dichloropropene	< 1.0		ug/l	1.0				-		
trans-1,4-Dichloro-2-butene	< 1.0		ug/l	1.0				-		
Trichloroethene	< 1.0		ug/l	1.0				-		
Trichlorofluoromethane	< 1.0		ug/l	1.0				-		
Vinyl chloride	< 1.0		ug/l	1.0				-		
Tert-amyl methyl ether	< 1.0		ug/l	1.0				-		
Dichlorodifluoromethane	< 1.0		ug/l	1.0				-		
Carbon tetrachloride	< 1.0		ug/l	1.0				-		
Chlorobenzene	< 1.0		ug/l	1.0				-		
Chloroethane	< 1.0		ug/l	1.0				-		
Chloroform	< 1.0		ug/l	1.0				-		
Chloromethane	< 1.0		ug/l	1.0				-		
cis-1,2-Dichloroethene	< 1.0		ug/l	1.0				-		
cis-1,3-Dichloropropene	< 1.0		ug/l	1.0				-		
Cyclohexane	< 1.0		ug/l	1.0				-		
Dibromochloromethane	< 1.0		ug/l	1.0				-		
Methylene Chloride	< 1.0		ug/l	1.0				-		
Dibromomethane	< 1.0		ug/l	1.0				-		
Bromomethane	< 1.0		ug/l	1.0				-		
Diisopropyl ether	< 1.0		ug/l	1.0				-		
Ethanol	< 200		ug/l	200				-		
Ethyl ether	< 1.0		ug/l	1.0				-		
Ethyl tert-butyl ether	< 1.0		ug/l	1.0				-		
Ethylbenzene	< 1.0		ug/l	1.0				-		
Hexachlorobutadiene	< 1.0		ug/l	1.0				-		
Isopropylbenzene	< 1.0		ug/l	1.0				-		
Methyl acetate	< 5.0		ug/l	5.0				-		
Surrogate: 4-Bromofluorobenzene	*49.6*		ug/l		*50.0*		*99*	*77-124*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8260C										
Batch 637413 - 5030C										
Blank (637413-20)					Prepared & Analyzed: 06-Sep-19					
Surrogate: Toluene-d8 (Surr)	*48.0*		ug/l		*50.0*		*96*	*80-120*		
Surrogate: 1,2-Dichloroethane-d4 (Surr)	*48.1*		ug/l		*50.0*		*96*	*74-132*		
Surrogate: Dibromofluoromethane (Surr)	*48.8*		ug/l		*50.0*		*98*	*72-131*		
Batch 637863 - 5030C										
LCS (637863-4)					Prepared & Analyzed: 09-Sep-19					
Benzene	**20.0**		ug/l	1.0	20.0		100	77-121		
2,2-Dichloropropane	**18.9**		ug/l	2.0	20.0		95	77-122		
2-Butanone (MEK)	**96.0**		ug/l	5.0	100		96	64-120		
2-Chlorotoluene	**20.1**		ug/l	1.0	20.0		100	80-120		
2-Hexanone	**106**		ug/l	5.0	100		106	71-125		
4-Chlorotoluene	**20.5**		ug/l	1.0	20.0		102	80-120		
4-Isopropyltoluene	**20.0**		ug/l	1.0	20.0		100	75-122		
4-Methyl-2-pentanone (MIBK)	**106**		ug/l	5.0	100		106	78-124		
Trichlorofluoromethane	**20.0**		ug/l	1.0	20.0		100	71-143		
Acrylonitrile	**191**		ug/l	2.0	200		95	68-135		
1,3-Dichloropropane	**19.8**		ug/l	1.0	20.0		99	77-120		
Bromobenzene	**18.7**		ug/l	1.0	20.0		94	80-120		
Bromochloromethane	**19.0**		ug/l	1.0	20.0		95	77-127		
Bromodichloromethane	**18.1**		ug/l	1.0	20.0		90	76-120		
Bromoform	**18.8**		ug/l	1.0	20.0		94	53-120		
Bromomethane	**19.1**		ug/l	1.0	20.0		96	10-150		
Carbon disulfide	**17.8**		ug/l	1.0	20.0		89	69-133		
Vinyl chloride	**19.4**		ug/l	1.0	20.0		97	62-138		
Chlorobenzene	**19.6**		ug/l	1.0	20.0		98	80-120		
Acetone	**91.0**		ug/l	5.0	100		91	39-150		
1,2,4-Trimethylbenzene	**19.5**		ug/l	1.0	20.0		98	78-122		
1,1-Dichloropropene	**19.0**		ug/l	1.0	20.0		95	78-128		
1,1-Dichloroethene	**18.1**		ug/l	1.0	20.0		91	74-123		
1,1-Dichloroethane	**20.1**		ug/l	1.0	20.0		100	77-123		
1,1,2-Trichlorotrifluoroethane	**19.1**		ug/l	1.0	20.0		95	59-150		
1,1,2-Trichloroethane	**19.7**		ug/l	1.0	20.0		99	78-120		
1,1,2,2-Tetrachloroethane	**19.9**		ug/l	1.0	20.0		100	74-120		
1,1,1-Trichloroethane	**19.5**		ug/l	1.0	20.0		97	75-125		
1,1,1,2-Tetrachloroethane	**19.4**		ug/l	1.0	20.0		97	77-120		
1,4-Dioxane	**521**		ug/l	50	400		130	10-150		
1,2,4-Trichlorobenzene	**20.3**		ug/l	1.0	20.0		101	80-124		
1,4-Dichlorobenzene	**19.5**		ug/l	1.0	20.0		97	80-120		
1,2-Dibromo-3-Chloropropane	**19.3**		ug/l	1.0	20.0		96	55-134		
1,2-Dibromoethane	**19.2**		ug/l	1.0	20.0		96	80-120		
1,2-Dichlorobenzene	**19.3**		ug/l	1.0	20.0		97	80-120		
1,2-Dichloroethane	**18.8**		ug/l	1.0	20.0		94	76-121		
1,2-Dichloropropane	**19.5**		ug/l	1.0	20.0		98	77-123		
1,3,5-Trimethylbenzene	**21.1**		ug/l	1.0	20.0		105	80-120		
1,3-Dichlorobenzene	**20.1**		ug/l	1.0	20.0		100	80-120		
Chloroethane	**18.3**		ug/l	1.0	20.0		92	52-150		
1,2,3-Trichloropropane	**20.1**		ug/l	1.0	20.0		100	76-120		
tert-Butylbenzene	**19.9**		ug/l	1.0	20.0		100	79-120		
Carbon tetrachloride	**19.2**		ug/l	1.0	20.0		96	70-132		
Naphthalene	**25.6**		ug/l	1.0	20.0		128	70-150		
n-Butylbenzene	**20.0**		ug/l	1.0	20.0		100	72-133		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8260C										
Batch 637863 - 5030C										
LCS (637863-4)					Prepared & Analyzed: 09-Sep-19					
N-Propylbenzene	**20.0**		ug/l	1.0	20.0		100	80-123		
o-Xylene	**20.2**		ug/l	1.0	20.0		101	80-120		
sec-Butylbenzene	**20.1**		ug/l	1.0	20.0		101	75-128		
Styrene	**20.3**		ug/l	1.0	20.0		102	80-120		
Methylene Chloride	**18.6**		ug/l	1.0	20.0		93	77-123		
tert-Butanol	**210**		ug/l	10	200		105	22-150		
Methylcyclohexane	**20.3**		ug/l	1.0	20.0		101	61-145		
Tetrachloroethene	**18.8**		ug/l	1.0	20.0		94	78-122		
Tetrahydrofuran	**38.2**		ug/l	2.0	40.0		95	79-122		
Toluene	**20.2**		ug/l	1.0	20.0		101	80-120		
trans-1,2-Dichloroethene	**18.5**		ug/l	1.0	20.0		93	79-120		
trans-1,3-Dichloropropene	**19.0**		ug/l	1.0	20.0		95	76-120		
trans-1,4-Dichloro-2-butene	**19.5**		ug/l	1.0	20.0		98	61-122		
Trichloroethene	**18.0**		ug/l	1.0	20.0		90	77-120		
1,2,3-Trichlorobenzene	**24.2**		ug/l	1.0	20.0		121	78-131		
Tert-amyl methyl ether	**19.4**		ug/l	1.0	20.0		97	80-120		
Ethanol	**858**		ug/l	200	800		107	67-150		
Chloromethane	**19.4**		ug/l	1.0	20.0		97	56-131		
cis-1,2-Dichloroethene	**19.7**		ug/l	1.0	20.0		99	80-120		
cis-1,3-Dichloropropene	**18.4**		ug/l	1.0	20.0		92	77-120		
Cyclohexane	**19.8**		ug/l	1.0	20.0		99	56-150		
Dibromochloromethane	**18.5**		ug/l	1.0	20.0		92	73-120		
Dibromomethane	**18.0**		ug/l	1.0	20.0		90	79-120		
m-Xylene & p-Xylene	**19.8**		ug/l	1.0	20.0		99	80-120		
Diisopropyl ether	**19.4**		ug/l	1.0	20.0		97	70-141		
Chloroform	**19.5**		ug/l	1.0	20.0		97	80-120		
Ethyl ether	**19.1**		ug/l	1.0	20.0		96	68-136		
Ethyl tert-butyl ether	**20.0**		ug/l	1.0	20.0		100	79-125		
Ethylbenzene	**18.9**		ug/l	1.0	20.0		94	80-120		
Hexachlorobutadiene	**18.8**		ug/l	1.0	20.0		94	66-136		
Isopropylbenzene	**18.2**		ug/l	1.0	20.0		91	80-123		
Methyl acetate	**40.7**		ug/l	5.0	40.0		102	66-144		
Methyl tert-butyl ether	**19.4**		ug/l	1.0	20.0		97	79-122		
Dichlorodifluoromethane	**21.1**		ug/l	1.0	20.0		106	50-131		
Surrogate: 1,2-Dichloroethane-d4 (Surr)	*45.8*		ug/l		*50.0*		*92*	*74-132*		
Surrogate: Dibromofluoromethane (Surr)	*46.3*		ug/l		*50.0*		*93*	*72-131*		
Surrogate: 4-Bromofluorobenzene	*46.4*		ug/l		*50.0*		*93*	*77-124*		
Surrogate: Toluene-d8 (Surr)	*45.2*		ug/l		*50.0*		*90*	*80-120*		
Blank (637863-9)					Prepared & Analyzed: 09-Sep-19					
Styrene	< 1.0		ug/l	1.0				-		
Dibromomethane	< 1.0		ug/l	1.0				-		
Methyl acetate	< 5.0		ug/l	5.0				-		
o-Xylene	< 1.0		ug/l	1.0				-		
Hexachlorobutadiene	< 1.0		ug/l	1.0				-		
1,1,1,2-Tetrachloroethane	< 1.0		ug/l	1.0				-		
Ethyl tert-butyl ether	< 1.0		ug/l	1.0				-		
Ethyl ether	< 1.0		ug/l	1.0				-		
Ethanol	< 200		ug/l	200				-		
Carbon tetrachloride	< 1.0		ug/l	1.0				-		
Dichlorodifluoromethane	< 1.0		ug/l	1.0				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8260C										
Batch 637863 - 5030C										
Blank (637863-9)					Prepared & Analyzed: 09-Sep-19					
Methylene Chloride	< 1.0		ug/l	1.0				-		
Dibromochloromethane	< 1.0		ug/l	1.0				-		
Cyclohexane	< 1.0		ug/l	1.0				-		
cis-1,3-Dichloropropene	< 1.0		ug/l	1.0				-		
cis-1,2-Dichloroethene	< 1.0		ug/l	1.0				-		
Chloromethane	< 1.0		ug/l	1.0				-		
Chloroform	< 1.0		ug/l	1.0				-		
Chloroethane	< 1.0		ug/l	1.0				-		
Chlorobenzene	< 1.0		ug/l	1.0				-		
Diisopropyl ether	< 1.0		ug/l	1.0				-		
tert-Butylbenzene	< 1.0		ug/l	1.0				-		
Xylenes, Total	< 2.0		ug/l	2.0				-		
Vinyl chloride	< 1.0		ug/l	1.0				-		
Trichlorofluoromethane	< 1.0		ug/l	1.0				-		
Trichloroethene	< 1.0		ug/l	1.0				-		
trans-1,4-Dichloro-2-butene	< 1.0		ug/l	1.0				-		
trans-1,3-Dichloropropene	< 1.0		ug/l	1.0				-		
trans-1,2-Dichloroethene	< 1.0		ug/l	1.0				-		
Toluene	< 1.0		ug/l	1.0				-		
Methyl tert-butyl ether	< 1.0		ug/l	1.0				-		
Tetrachloroethene	< 1.0		ug/l	1.0				-		
Methylcyclohexane	< 1.0		ug/l	1.0				-		
tert-Butanol	< 10		ug/l	10				-		
Tert-amyl methyl ether	< 1.0		ug/l	1.0				-		
sec-Butylbenzene	< 1.0		ug/l	1.0				-		
N-Propylbenzene	< 1.0		ug/l	1.0				-		
n-Butylbenzene	< 1.0		ug/l	1.0				-		
Naphthalene	< 1.0		ug/l	1.0				-		
m-Xylene & p-Xylene	< 1.0		ug/l	1.0				-		
Ethylbenzene	< 1.0		ug/l	1.0				-		
Tetrahydrofuran	< 2.0		ug/l	2.0				-		
1,2,3-Trichloropropane	< 1.0		ug/l	1.0				-		
1,3,5-Trimethylbenzene	< 1.0		ug/l	1.0				-		
1,3,5-Trichlorobenzene	< 1.0		ug/l	1.0				-		
1,2-Dichloropropane	< 1.0		ug/l	1.0				-		
1,2-Dichloroethane	< 1.0		ug/l	1.0				-		
1,2-Dichlorobenzene	< 1.0		ug/l	1.0				-		
1,2-Dibromoethane	< 1.0		ug/l	1.0				-		
1,2-Dibromo-3-Chloropropane	< 1.0		ug/l	1.0				-		
1,3-Dichlorobenzene	< 1.0		ug/l	1.0				-		
1,2,4-Trichlorobenzene	< 1.0		ug/l	1.0				-		
1,1-Dichloroethene	< 1.0		ug/l	1.0				-		
1,2,3-Trichlorobenzene	< 1.0		ug/l	1.0				-		
1,1-Dichloropropene	< 1.0		ug/l	1.0				-		
Carbon disulfide	< 1.0		ug/l	1.0				-		
1,1-Dichloroethane	< 1.0		ug/l	1.0				-		
Isopropylbenzene	< 1.0		ug/l	1.0				-		
1,1,2-Trichloroethane	< 1.0		ug/l	1.0				-		
1,1,2,2-Tetrachloroethane	< 1.0		ug/l	1.0				-		
1,1,1-Trichloroethane	< 1.0		ug/l	1.0				-		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8260C										
Batch 637863 - 5030C										
Blank (637863-9)						Prepared & Analyzed: 09-Sep-19				
1,2,4-Trimethylbenzene	< 1.0		ug/l	1.0				-		
4-Methyl-2-pentanone (MIBK)	< 5.0		ug/l	5.0				-		
Bromomethane	< 1.0		ug/l	1.0				-		
Bromoform	< 1.0		ug/l	1.0				-		
Bromodichloromethane	< 1.0		ug/l	1.0				-		
Bromochloromethane	< 1.0		ug/l	1.0				-		
Bromobenzene	< 1.0		ug/l	1.0				-		
Benzene	< 1.0		ug/l	1.0				-		
Acrylonitrile	< 2.0		ug/l	2.0				-		
1,1,2-Trichlorotrifluoroethane	< 1.0		ug/l	1.0				-		
Acetone	< 5.0		ug/l	5.0				-		
1,3-Dichloropropane	< 1.0		ug/l	1.0				-		
4-Isopropyltoluene	< 1.0		ug/l	1.0				-		
4-Chlorotoluene	< 1.0		ug/l	1.0				-		
2-Hexanone	< 5.0		ug/l	5.0				-		
2-Chlorotoluene	< 1.0		ug/l	1.0				-		
2-Butanone (MEK)	< 5.0		ug/l	5.0				-		
2,2-Dichloropropane	< 2.0		ug/l	2.0				-		
1,4-Dioxane	< 50		ug/l	50				-		
1,4-Dichlorobenzene	< 1.0		ug/l	1.0				-		
Surrogate: 4-Bromofluorobenzene	*47.2*		ug/l		*50.0*		*94*	*77-124*		
Surrogate: Toluene-d8 (Surr)	*46.2*		ug/l		*50.0*		*92*	*80-120*		
Surrogate: 1,2-Dichloroethane-d4 (Surr)	*46.9*		ug/l		*50.0*		*94*	*74-132*		
Surrogate: Dibromofluoromethane (Surr)	*47.6*		ug/l		*50.0*		*95*	*72-131*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
EPA 1664B										
Batch 19248807902A - General Preparation										
Blank (B248102B)						Prepared & Analyzed: 05-Sep-19				
HEM (oil & grease)	< 5.0		mg/l	5.0				-		
LCS (L248102Q)						Prepared & Analyzed: 05-Sep-19				
HEM (oil & grease)	**37.3**		mg/l	5.0	40.0		93	78-114		
LCS Dup (L248102Y)						Prepared & Analyzed: 05-Sep-19				
HEM (oil & grease)	**38.1**		mg/l	5.0	40.0		95	78-114	2	13
SM 2540 C										
Batch 19242964902A - General Preparation										
Blank (B242882B)						Prepared & Analyzed: 30-Aug-19				
Total Dissolved Solids	< 30.0		mg/l	30.0				-		
LCS (L242882Q)						Prepared & Analyzed: 30-Aug-19				
Total Dissolved Solids	**193**		mg/l	30.0	200		97	74-127		
SM 2540 D										
Batch 19242385802A - General Preparation										
Blank (B242712B)						Prepared & Analyzed: 30-Aug-19				
Total Suspended Solids	< 3.00		mg/l	3.00				-		
LCS (L242712Q)						Prepared & Analyzed: 30-Aug-19				
Total Suspended Solids	**145**		mg/l	3.00	150		97	89-105		
SW-846 6020A										
Batch 192411404702A - SW-846 3020A										
Blank (P24104BBB)						Prepared: 30-Aug-19 Analyzed: 03-Sep-19				
Aluminum	< 0.400		mg/l	0.400				-		
Arsenic	< 0.0020		mg/l	0.0020				-		
Barium	< 0.0040		mg/l	0.0040				-		
Chromium	< 0.0040		mg/l	0.0040				-		
Copper	< 0.0400		mg/l	0.0400				-		
Iron	< 0.100		mg/l	0.100				-		
Manganese	< 0.0100		mg/l	0.0100				-		
Nickel	< 0.0040		mg/l	0.0040				-		
Zinc	< 0.0150		mg/l	0.0150				-		
LCS (P24104BQQ)						Prepared: 30-Aug-19 Analyzed: 03-Sep-19				
Barium	**0.0546**		mg/l	0.0040	0.0500		109	80-120		
Arsenic	**0.0109**		mg/l	0.0020	0.0100		109	85-120		
Chromium	**0.0515**		mg/l	0.0040	0.0500		103	90-115		
Copper	**0.0550**		mg/l	0.0400	0.0500		110	89-120		
Iron	**0.987**		mg/l	0.100	1.00		99	87-114		
Manganese	**0.0521**		mg/l	0.0100	0.0500		104	89-120		
Nickel	**0.0553**		mg/l	0.0040	0.0500		111	90-114		
Zinc	**0.539**		mg/l	0.0150	0.500		108	90-115		
Aluminum	**1.94**		mg/l	0.400	2.00		97	88-114		
SW-846 7470A										
Batch 192410571310 - METHOD										
Duplicate (P138857D221232)			**Source: SC55978-02**			Prepared & Analyzed: 30-Aug-19				
Mercury	< 0.00020		mg/l	0.00020		BDL		-	0	20
Matrix Spike Dup (P138857M221236)			**Source: SC55978-02**			Prepared & Analyzed: 30-Aug-19				
Mercury	**0.00081**		mg/l	0.00020	0.0010	BDL	81	80-120	2	20
Matrix Spike (P138857R221234)			**Source: SC55978-02**			Prepared & Analyzed: 30-Aug-19				
Mercury	**0.00083**		mg/l	0.00020	0.0010	BDL	83	80-120		
Blank (P24171JBB)						Prepared & Analyzed: 30-Aug-19				

Subcontracted Analyses - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW-846 7470A										
Batch 192410571310 - METHOD										
Blank (P24171JBB)						Prepared & Analyzed: 30-Aug-19				
Mercury	< 0.00020		mg/l	0.00020				-		
LCS (P24171JQQ)						Prepared & Analyzed: 30-Aug-19				
Mercury	**0.00081**		mg/l	0.00020	0.0010		81	80-110		
SW-846 9012B										
Batch 19246117101B - METHOD										
Blank (P24617ABB)						Prepared: 03-Sep-19 Analyzed: 05-Sep-19				
Total Cyanide (water)	**0.0053**		mg/l	0.010				-		
LCS (P24617AQQ)						Prepared: 03-Sep-19 Analyzed: 05-Sep-19				
Total Cyanide (water)	**0.20**		mg/l	0.010	0.20		98	90-110		

Notes and Definitions

*	LCS or LCSD is outside acceptance limits.
J	Estimated value
Ja	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
OG	The required Matrix Spike and Matrix Spike Duplicate (MS/MSD) for Oil & Grease method 1664B can only be analyzed when the client has submitted sufficient sample volume. An extra liter per MS/MSD is required to fulfill the method QC criteria. Please refer to Chain of Custody and QC Summary (MS/MSD) of the Laboratory Report to verify ample sample volume was submitted to fulfill the requirement.

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.

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SC55978 By

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CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- [X] Standard TAT - 7 to 10 business days
- [ ] Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.

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

Telephone #: 518-951-2200
Project Mgr: Stephen Choiniere

Invoice To: Same

P.O No.: _____ Quote #: _____

Project No: 60276639-1
Site Name: Now Corp / 3-14-008
Location: Staatsburg State: NY
Sampler(s): SRG

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 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=Compsite

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	Containers: # of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: 8260	* Metals	TSS/TDS	O+G	Cyanide	Check if chlorinated
SC55978-01	EFF55082719	8/27/19	1525	G	GW	3	1		4	X	X	X	X	X	
-02	INF082719		1515				1		4		X	X	X	X	
-03	TW-1 082719		1510												
-04	TW-2A 082719		1530												
-05	TW-3 082719		1535												
-06	TB 082719	—	—	—	—	2									

List Preservative Code below: 2 4 11 3 5

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? [ ] Yes [ ] No
CT DPH RCP Report? [ ] Yes [ ] No
[ ] Standard [ ] No QC [ ] DQA*
[ ] ASP A* [ ] ASP B*
[ ] NJ Reduced* [ ] NJ Full*
[ ] Tier II* [ ] Tier IV*
[ ] Other: _____
State-specific reporting standards:

* Al, Ba, As, Cr, Cu, Fe, Mn, Hg, Ni, Zn

Relinquished by:	Received by:	Date:	Time:
[signature] Fedex	Fedex	8/27/19	18:25
	[signature]	8/28/19	10:20

Temp °C: Observed 5.5; Correction Factor 0; Corrected 5.5; IR ID #: i

[ ] EDD format: _____
[ ] E-mail to: _____

Condition upon receipt: Custody Seals: [✓] Present [✓] Intact [ ] Broken
[ ] Ambient [✓] Iced [ ] Refrigerated [ ] DI VOA Frozen [ ] Soil Jar Frozen

00071
00100

FedEx Express Package US Airbill

FedEx Tracking Number 8139 4282 5156

Form ID No. 0215

Recipient's Copy

MUR3

1 From

Date 8-27-19

Sender's Name Steve Gray Phone 518 951-2200

Company AECOM TECHNICAL SERVICES

Address 40 BRITISH AMERICAN BLVD

Dept./Floor/Suite/Room

City LATHAM State NY ZIP 12110-1421

2 Your Internal Billing Reference

60276639 - 1

3 To

Recipient's Name Attn: Sample Receipt Phone 413 789-9018

Company Eurofins Spectrum Analytical

Address 11 Almgren Dr.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

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

City Agawam State MA ZIP 01001

☐ Hold Weekday
FedEx location address REQUIRED. **NOT available for** FedEx First Overnight.

☐ Hold Saturday
FedEx location address **REQUIRED. Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

0132325350

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4 Express Package Service

* To most locations.

Packages up to 150 lbs.
For packages over 150 lbs., use the FedEx Express Freight US Airbill.

Next Business Day

☐ FedEx First Overnight
Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☒ FedEx Priority Overnight
Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Standard Overnight
Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M.
Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day
Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Express Saver
Third business day.* Saturday Delivery NOT available.

5 Packaging

* Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

Fees may apply. See the FedEx Service Guide.

☐ Saturday Delivery
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ No Signature Required
Package may be left without obtaining a signature for delivery.

☐ Direct Signature
Someone at recipient's address may sign for delivery.

☐ Indirect Signature
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only.

Does this shipment contain dangerous goods?

One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages ____ Total Weight ____ lbs. Credit Card Auth. ____

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

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Batch Summary

192410571310

Subcontracted Analyses

P138857D221232
P138857M221236
P138857R221234
P24171JBB
P24171JQQ
SC55978-01 (EFF55 082719)
SC55978-02 (INF 082719)

192411404702A

Subcontracted Analyses

P24104BBB
P24104BQQ
SC55978-01 (EFF55 082719)
SC55978-02 (INF 082719)

19242385802A

Subcontracted Analyses

B242712B
L242712Q
SC55978-01 (EFF55 082719)
SC55978-02 (INF 082719)

19242964902A

Subcontracted Analyses

B242882B
L242882Q
SC55978-01 (EFF55 082719)
SC55978-02 (INF 082719)

19246117101B

Subcontracted Analyses

P24617ABB
P24617AQQ
SC55978-01 (EFF55 082719)
SC55978-02 (INF 082719)

19248807902A

Subcontracted Analyses

B248102B
L248102Q
L248102Y
SC55978-01 (EFF55 082719)
SC55978-02 (INF 082719)

637413

Subcontracted Analyses

637413-16
637413-17
637413-20
SC55978-01 (EFF55 082719)
SC55978-03 (TW-1 082719)
SC55978-04 (TW-2A 082719)
SC55978-05 (TW-3 082719)
SC55978-06 (TB 082719)

637863

Subcontracted Analyses

637863-4
637863-9
SC55978-02 (INF 082719)