Woman Owned Business
Aztech Environmental
TECHNOLOGIES
5 McCrea Hill Road • Ballston Spa, New York 12020

Charles T Gregory July 9, 2019

Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7014

Re: Fourth Quarter, 2018 O&M Status Report at Mohonk Road Industrial Site
Site Number: 356023

Mr. Gregory,

Aztech Environmental Technologies (Aztech) has prepared the following correspondence to summarize operation and maintenance activities and laboratory analytical results for the above referenced project. The fieldwork summarized within this report includes operation and maintenance activities and system sampling results conducted by Aztech for the fourth quarter of 2018.

October 2, 2018

Aztech personnel mobilized to the site to perform maintenance and collect routine system samples. The system was running upon arrival. Samples were collected from recovery wells 7R, ERT-1, 5-R as well as the combined system influent and, system effluent. System readings were also recorded. Samples were later sent to Test America for VOC analysis via method 624. The analytical results of the system samples are summarized in the table below.

After collecting system samples the system was shut down to exercise the flow valves and clean the flow meters. Routine grounds maintenance was performed. The pH probe that was identified as malfunctioning during a previous O&M visit was replaced. It was also noted that the sump pump seal had been sheared off, to be repaired at a future O&M visit. The system was subsequently restarted and was running upon departure from the site. During this mobilization, five drums of Redux 390 were received and stored in the chemical room for future use.

Analytical Results –October 2, 2018
Concentrations in µg/L

Sample	1,1-DCA	1,1-DCE	1,1,1-TCA	TCE
7R	20	9.5	53	1.6J
ERT-1	8.7	18	46	5.5
5R	2J	7.7	27	3.6J
Combined Influent	10	12	43	3.7
Effluent	ND	ND	ND	ND
Notes:	ND = Non-Detect NS = Not Sampled; well not operating J = Approx. Value			

October 15, 2018

Aztech personnel mobilized to the site to perform maintenance and collect system readings. The system was running upon arrival. Routine grounds maintenance was performed. The system was shut down to exercise the flow valves and clean the flow meters. The metering pump for chemical injection was adjusted to optimize usage. Additionally, the heat in the building was turned on and heat tape applied to all applicable areas for weather protection. The system was subsequently restarted and was running upon departure from the site.

November 7, 2018

Aztech personnel mobilized to the site to perform maintenance and collect routine system samples. The system was running upon arrival. Samples were collected from recovery wells 7R, ERT-1, 5-R as well as the combined system influent and, system effluent. System readings were also recorded. Samples were later sent to Test America for VOC analysis via method 624. The analytical results of the system samples are summarized in the table below.

After collecting the samples the system was shut down to exercise the flow valves and clean the flow meters. The system was subsequently restarted and was running upon departure from the site.

Analytical Results – November 7, 2018
Concentrations in µg/L

Sample	1,1-DCA	1,1-DCE	1,1,1-TCA	TCE
7R	25	11	71	2.3J
ERT-1	11	22	70	6.8
5R	3J	12	43	4.8J
Combined Influent	14	17	65	5.2
Effluent	ND	ND	ND	ND
Notes:	ND = Non-Detect NS = Not Sampled; well not operating J = Approx. Value			

November 20, 2018

Aztech personnel mobilized to the site to perform maintenance and collect system readings. The system was running upon arrival. The system was shut down to exercise the flow valves and clean the flow meters. The system was subsequently restarted and the flow rate adjusted for optimal performance. The system was running upon departure from the site.

December 12, 2018

Aztech personnel mobilized to the site to perform maintenance and collect routine system samples. The system was running upon arrival. Samples were collected from recovery wells 7R, ERT-1, 5-R as well as the combined system influent and, system effluent. System readings were also recorded. Samples were later sent to Test America for VOC analysis via method 624. The analytical results of the system samples are summarized in the table below.

Routine grounds maintenance was performed. Technicians inspected the status of the SSDS fans mounted on the exterior of the industrial building adjacent to the treatment system and found the system to be running with no maintenance issues to report. After collecting the samples the

system was shut down to exercise the flow valves and clean the flow meters. The system was subsequently restarted and was running upon departure from the site.

Analytical Results – December 12, 2018 Concentrations in µg/L				
Sample	**1,1-DCA**	**1,1-DCE**	**1,1,1-TCA**	**TCE**
7R	27	11	80	2J
ERT-1	12	26	88	7.8
5R	2.6J	11	41	3.9J
Combined Influent	15	17	75	5.3
Effluent	ND	ND	ND	ND
Notes:	ND = Non-Detect NS = Not Sampled; well not operating J = Approx. Value			

December 26, 2019

Aztech personnel mobilized to the site to perform maintenance and collect system readings. The system was running upon arrival. The system was shut down to exercise the flow valves and clean the flow meters. Additionally, the building was swept and vacuumed. The system was subsequently restarted and was running upon departure from the site.

Summary and Recommendations

Operational issues have been identified during the ongoing operation and maintenance activities conducted at the site. As such, Aztech offers the following recommendations for NYSDEC's consideration:

- Scaling: In September 2017, a chemical injection system to administer the hardness sequestering agent Redux 390 was incorporated into the treatment system. The injection system was constructed by reutilizing legacy chemical metering equipment. The metering pump was calibrated to the chemical manufacturer's recommended dosage of 75ppm of Redux 390 for an influent flow rate of 27gpm. The manufacturer's recommended injection rate for chemical additives is often higher than necessary. However, Redux 390 will also help descale legacy piping where existing scaling is present. For this reason, Aztech recommends running the system at the recommended dosage for a period of at least 1 year. Following the minimum 1 year period, Aztech recommends slowly adjusting the dosage to more efficiently meet the needs of the system as to minimize chemical consumption and overall cost of operation.

    - Redux Metering Pump: Before the ideal dosage rate can be determined, the accuracy of the metering pump dosage settings will need to be investigated further. During the Fourth Quarter reporting period, approximately three (3) 55-gallon drums of Redux were consumed. This is an average of approximately 1 drum per month, which is greater than the estimated rate of 1 drum per 1.5 months. The chemical metering pump in service is a legacy unit from the sulfuric acid injection system previously utilized at the site. Aztech is in the design stages of installing a dosage metering calibration system. This will allow the metering pump to be tested periodically by technicians in order to determine whether or not the dosage delivered to the treatment system is consistent with the metering pump settings. Once this determination is made, the proper dosage required to eliminate further scaling within treatment system components can be determined over time. If tests show that the metering pump is delivering inconsistent doses to the

treatment system, Aztech recommends that the metering pump be replaced with a new unit.

- Condensation: The new treatment system enclosure within the building has been encountering an issue with condensation in the warmer months since it was built. Mold frequently forms on the walls and equipment due to this condensation. It is believed that ventilating the room may cause the accumulation of condensation to become worse, as the heat exchange from ventilation air across the cold groundwater flowing through the system may actually foster the production of additional condensation. Aztech recommends sourcing an appropriately sized dehumidifier for the enclosure, and that the dehumidifier's collection sump be plumbed to the existing floor sump in the building to prevent overflowing and additional mold growth.

- Operational Costs: Aztech will continue to evaluate methods to decrease operational costs and improve treatment efficiency of the system.

Aztech would like to thank you for the opportunity to offer our services for this site.

If you have any questions or comments regarding the information contained herein, please contact our office at 518-885-5383.

Sincerely,
Aztech Environmental Technologies

Andrew Talbot
Project Engineer

Attachments:
- Field Log Sheets
- Laboratory Analytical Reports

Mohonk Road - Groundwater Remediation System Checklist

Date: 10/2/18 **Personnel Onsite Initials:** AT + LG

Input Name	*Flow Rates (On Meter)*	*Totalizer (Procontrol)*
(ER1FLO)	9.7	~~11510850~~ 10361088
(W7RFLO)	9.5	11510850
(W5RFLO)	9.8	7297774

Input Name	*Water Level (Procontrol)*
W5RLVL	-70.27
W7RLVL	-74.45
ER1LVL	-69.96

Location/ Input name	*Pressure (Procontrol)*
Transfer Pump (PREBAG)	4.2
Air Stripper (AS_PRS)	27.14
Discharge Pump (DSCPRS)	24.3

Location	*Temp (Procontrol)*
Room (RM_TMP)	62.6
Air Stripper (AS_TMP)	79.8
Discharge Pump (H2OTMP)	51.9

Exterior of building checked and grounds maintained (weedwack, etc)	(Y) / N
pH Probe calibrated due to discrepency	Y / N
Clean influent flow meters	(Y) / N
Exercise flow valves	(Y) / N
Duplicate Sample ID	N/A

Location	*pH*
Effluent (EFF_PH)	8.18
Effluent (Measured)	

Redux remaining (in. from bottom)	full (new drum)

Take the following steps to record the flow totalizer for each well on the ProControl
i. Login to ProControl (Password: EOS).
ii. Once logged in, press the "I/O Up" key until "ER1FLO" is on the display
iii. Press "Set Hi/Lo" key until "Totalizer" is displayed and record the value
iv. Once value is recorded, press "Set Hi/Lo" until "ER1FLO" is on the display
v. Repeat steps ii-iv for W7RFLO and W5RFLO

Notes: Mobilize to site. Site running on arrival, current Redux drum depleted. Switch to new Redux drum. Receive shipment of 5 drums of Redux. Collect system samples. Clean plant and perform grounds maintenance. Replace effluent pH probe. Clean flow meters and excercise flow valves. Remove extra pallets from site and remove garbage. 5 drums of Redux in stock and new drum started this visit. Sump pump seal shears off and sump pump will need to be replaced.

Mohonk Road - Groundwater Remediation System Checklist

Date: 10/15/18 **Personnel Onsite Initials:** L.H / J.H.

Input Name	Flow Rates (On Meter)	Totalizer (Procontrol)
(ER1FLO)	previously 9.9 / 9.9	10544844
(W7RFLO)	" 9.7 / 9.8	11692147
(W5RFLO)	" 10.2 / 10.2	7484636

Input Name	Water Level (Procontrol)
W5RLVL	67.31
W7RLVL	71.20
ER1LVL	66.06

Location/ Input name	Pressure (Procontrol)
Transfer Pump (PREBAG)	4.3
Air Stripper (AS_PRS)	27.42
Discharge Pump (DSCPRS)	3.5

Location	Temp (Procontrol)
Room (RM_TMP)	60.2
Air Stripper (AS_TMP)	73.8
Discharge Pump (H2OTMP)	50.0

Exterior of building checked and grounds maintained (weedwack, etc)	Y / (N)
pH Probe calibrated due to discrepency	Y / (N)
Clean influent flow meters	(Y) / N
Exercise flow valves	(Y) / N
Duplicate Sample ID	———

Location	pH
Effluent (EFF_PH)	8.42
Effluent (Measured)	7.5

Redux remaining (in. from bottom)	5 1/3 drums

Take the following steps to record the flow totalizer for each well on the ProControl
i. Login to ProControl (Password: EOS).
ii. Once logged in, press the "I/O Up" key until "ER1FLO" is on the display
iii. Press "Set Hi/Lo" key until "Totalizer" is displayed and record the value
iv. Once value is recorded, press "Set Hi/Lo" until "ER1FLO" is on the display
v. Repeat steps ii-iv for W7RFLO and W5RFLO

Notes: Turned on Heater & Heat tape found Strong odor of mice in Electrical Panel when I opened it.

Chemical pump was set @ 20% & turned it Down to about 15 OR 16 %

Mohonk Road - Groundwater Remediation System Checklist

Date: ~~11/7/18~~ 11/7/18 Personnel Onsite Initials: FZ & JS

Input Name	Flow Rates (On Meter)	Totalizer (Procontrol)
(ER1FLO)	10.40	10833514
(W7RFLO)	10.55	11977702
(W5RFLO)	10.70	7779203

Input Name	Water Level (Procontrol)
W5RLVL	60.42
W7RLVL	64.49
ER1LVL	59.62

Location/ Input name	Pressure (Procontrol)
Transfer Pump (PREBAG)	4.3
Air Stripper (AS_PRS)	27.32
Discharge Pump (DSCPRS)	24.4

Location	Temp (Procontrol)
Room (RM_TMP)	58.1
Air Stripper (AS_TMP)	76.4
Discharge Pump (H2OTMP)	51.1

Exterior of building checked and grounds maintained (weedwack, etc)	Y / N
pH Probe calibrated due to discrepency	Y / N
Clean influent flow meters	Y / N
Exercise flow valves	Y / N
Duplicate Sample ID	

Location	pH
Effluent (EFF_PH)	8.42
Effluent (Measured)	—

Redux remaining (in. from bottom)	Full drum

Take the following steps to record the flow totalizer for each well on the ProControl
i. Login to ProControl (Password: EOS).
ii. Once logged in, press the "I/O Up" key until "ER1FLO" is on the display
iii. Press "Set Hi/Lo" key until "Totalizer" is displayed and record the value
iv. Once value is recorded, press "Set Hi/Lo" until "ER1FLO" is on the display
v. Repeat steps ii-iv for W7RFLO and W5RFLO

Notes: Clean Flow Meters and Tubes. Take Samples
Drum Was Empty Switched to New drum

Mohonk Road - Groundwater Remediation System Checklist

Date: 11/20/18 **Personnel Onsite Initials:** LA TH.

Input Name	*Flow Rates (On Meter)*	*Totalizer (Procontrol)*
(ER1FLO)	9.90	9.9/109555879
(W7RFLO)	9.90	9.9/12100361
(W5RFLO)	9.90	9.8/79061556

Input Name	*Water Level (Procontrol)*
W5RLVL	54.62
W7RLVL	57.77
ER1LVL	53.60

Location/ Input name	*Pressure (Procontrol)*
Transfer Pump (PREBAG)	4.0
Air Stripper (AS_PRS)	28.02
Discharge Pump (DSCPRS)	24.3

Location	*Temp (Procontrol)*
Room (RM_TMP)	56°
Air Stripper (AS_TMP)	66.6°
Discharge Pump (H2OTMP)	56.8°

Exterior of building checked and grounds maintained (weedwack, etc)	Y / (N)
pH Probe calibrated due to discrepency	Y / (N)
Clean influent flow meters	(Y) / N
Exercise flow valves	(Y) / N
Duplicate Sample ID	NA

Location	*pH*
Effluent (EFF_PH)	8.53
Effluent (Measured)	

Redux remaining (in. from bottom)	4 2/3

Take the following steps to record the flow totalizer for each well on the ProControl
i. Login to ProControl (Password: EOS).
ii. Once logged in, press the "I/O Up" key until "ER1FLO" is on the display
iii. Press "Set Hi/Lo" key until "Totalizer" is displayed and record the value
iv. Once value is recorded, press "Set Hi/Lo" until "ER1FLO" is on the display
v. Repeat steps ii-iv for W7RFLO and W5RFLO

Notes: cleaned flow meters & lowered 6 Pr-on wells. was Running to fast for transfer pump

Mohonk Road - Groundwater Remediation System Checklist

Date: 12/12/18 **Personnel Onsite Initials:** AT + EC

Input Name	*Flow Rates (On Meter)*	*Totalizer (Procontrol)*
(ER1FLO)	8.9	11241745
(W7RFLO)	8.8	12384135
(W5RFLO)	8.7	8189268

Input Name	*Water Level (Procontrol)*
W5RLVL	-58.25
W7RLVL	-60.5
ER1LVL	-57.24

Location/ Input name	*Pressure (Procontrol)*
Transfer Pump (PREBAG)	4.4
Air Stripper (AS_PRS)	27.81
Discharge Pump (DSCPRS)	24.3

Location	*Temp (Procontrol)*
Room (RM_TMP)	~~69.4~~ 58.0
Air Stripper (AS_TMP)	69.4
Discharge Pump (H2OTMP)	51.1

Exterior of building checked and grounds maintained (weedwack, etc)	(Y) / N
pH Probe calibrated due to discrepency	Y / (N)
Clean influent flow meters	(Y) / N
Exercise flow valves	(Y) / N
Duplicate Sample ID	N/A

Location	*pH*
Effluent (EFF_PH)	7.66
Effluent (Measured)	—

Redux remaining (in. from bottom)	Full

Take the following steps to record the flow totalizer for each well on the ProControl
i. Login to ProControl (Password: EOS).
ii. Once logged in, press the "I/O Up" key until "ER1FLO" is on the display
iii. Press "Set Hi/Lo" key until "Totalizer" is displayed and record the value
iv. Once value is recorded, press "Set Hi/Lo" until "ER1FLO" is on the display
v. Repeat steps ii-iv for W7RFLO and W5RFLO

Notes: System running on arrival. Redux drum depleted, switched to new drum. Clean flow meters. Collect system samples. Checked SSDS fans. System running on departure.

Need new sump pump.

Mohonk Road - Groundwater Remediation System Checklist

Date: 12/26/16 **Personnel Onsite Initials:** MD / EC

Input Name	*Flow Rates (On Meter)*	*Totalizer (Procontrol)*
(ER1FLO)	8.65	11417038
(W7RFLO)	8.80	12557865
(W5RFLO)	8.80	8362261

Input Name	*Water Level (Procontrol)*
W5RLVL	-58.74
W7RLVL	-60.53
ER1LVL	-58.33

Location/ Input name	*Pressure (Procontrol)*
Transfer Pump (PREBAG)	4.5
Air Stripper (AS_PRS)	28.63
Discharge Pump (DSCPRS)	24.5

Location	*Temp (Procontrol)*
Room (RM_TMP)	50.9
Air Stripper (AS_TMP)	61.7
Discharge Pump (H2OTMP)	52.2

Exterior of building checked and grounds maintained (weedwack, etc)	Y / (N)
pH Probe calibrated due to discrepency	Y / (N)
Clean influent flow meters	(Y) / N
Exercise flow valves	(Y) / N
Duplicate Sample ID	—

Location	*pH*
Effluent (EFF_PH)	8.55
Effluent (Measured)	

Redux remaining (in. from bottom)	18

Take the following steps to record the flow totalizer for each well on the ProControl
i. Login to ProControl (Password: EOS).
ii. Once logged in, press the "I/O Up" key until "ER1FLO" is on the display
iii. Press "Set Hi/Lo" key until "Totalizer" is displayed and record the value
iv. Once value is recorded, press "Set Hi/Lo" until "ER1FLO" is on the display
v. Repeat steps ii-iv for W7RFLO and W5RFLO

Notes:
- system running on arrival
- Take system parameters
- clean flow meters, exercise flow valves
- sweep whole plant
- vaccum whole plant
- general cleaning

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-142882-1
Client Project/Site: Mohonk Rd. #356023

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Charles Gregory

Joseph V. Giacomazza

Authorized for release by:
10/22/2018 1:48:44 PM
Joe Giacomazza, Project Management Assistant II
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Designee for

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

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

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

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

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-142882-1

Qualifiers

GC/MS VOA

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Job ID: 480-142882-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-142882-1

Receipt
The samples were received on 10/4/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

Receipt Exceptions
The chain of custoday did not include a sample collection date for the samples. The client was contacted and responded 10/9/18 that they were collected on 10/2/18.

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

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

General Chemistry
Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 7R (480-142882-1), ERT-1 (480-142882-2), 5R (480-142882-3), COMBINED INFLUENT (480-142882-4) and EFFLUENT (480-142882-5).

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

Client Sample ID: 7R

Date Collected: 10/02/18 10:15
Date Received: 10/04/18 01:00

Lab Sample ID: 480-142882-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**53**		5.0	0.39	ug/L			10/05/18 12:40	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/18 12:40	1
1,1-Dichloroethane	**20**		5.0	0.59	ug/L			10/05/18 12:40	1
1,1-Dichloroethylene	**9.5**		5.0	0.85	ug/L			10/05/18 12:40	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/18 12:40	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/18 12:40	1
1,4-Dioxane	ND		200	15	ug/L			10/05/18 12:40	1
Acetone	ND		25	2.0	ug/L			10/05/18 12:40	1
Benzene	ND		5.0	0.60	ug/L			10/05/18 12:40	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/18 12:40	1
Chloroform	ND		5.0	0.54	ug/L			10/05/18 12:40	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/18 12:40	1
Toluene	ND		5.0	0.45	ug/L			10/05/18 12:40	1
Trichloroethylene	**1.6**	**J**	5.0	0.60	ug/L			10/05/18 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*10/05/18 12:40*	*1*
4-Bromofluorobenzene (Surr)	*100*		*76 - 123*		*10/05/18 12:40*	*1*
Toluene-d8 (Surr)	*92*		*77 - 120*		*10/05/18 12:40*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*10/05/18 12:40*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/08/18 12:44	10/09/18 11:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**362**		10.0	4.0	mg/L			10/09/18 15:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/09/18 21:44	1
pH	**7.1**	**HF**	0.1	0.1	SU			10/09/18 09:51	1
Temperature	**20.5**	**HF**	0.001	0.001	Degrees C			10/09/18 09:51	1

Client Sample ID: ERT-1

Date Collected: 10/02/18 10:05
Date Received: 10/04/18 01:00

Lab Sample ID: 480-142882-2
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**46**		5.0	0.39	ug/L			10/05/18 13:04	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/18 13:04	1
1,1-Dichloroethane	**8.7**		5.0	0.59	ug/L			10/05/18 13:04	1
1,1-Dichloroethylene	**18**		5.0	0.85	ug/L			10/05/18 13:04	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/18 13:04	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/18 13:04	1
1,4-Dioxane	ND		200	15	ug/L			10/05/18 13:04	1
Acetone	ND		25	2.0	ug/L			10/05/18 13:04	1
Benzene	ND		5.0	0.60	ug/L			10/05/18 13:04	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/18 13:04	1
Chloroform	ND		5.0	0.54	ug/L			10/05/18 13:04	1

Client Sample ID: ERT-1

Lab Sample ID: 480-142882-2

Date Collected: 10/02/18 10:05

Matrix: Water

Date Received: 10/04/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/18 13:04	1
Toluene	ND		5.0	0.45	ug/L			10/05/18 13:04	1
Trichloroethylene	**5.5**		5.0	0.60	ug/L			10/05/18 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*68 - 130*		*10/05/18 13:04*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*10/05/18 13:04*	*1*
Toluene-d8 (Surr)	*93*		*77 - 120*		*10/05/18 13:04*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*10/05/18 13:04*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/08/18 12:44	10/09/18 11:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**355**		10.0	4.0	mg/L			10/09/18 15:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/09/18 21:44	1
pH	**7.1**	**HF**	0.1	0.1	SU			10/09/18 09:54	1
Temperature	**20.6**	**HF**	0.001	0.001	Degrees C			10/09/18 09:54	1

Client Sample ID: 5R

Lab Sample ID: 480-142882-3

Date Collected: 10/02/18 10:10

Matrix: Water

Date Received: 10/04/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**27**		5.0	0.39	ug/L			10/05/18 13:28	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/18 13:28	1
1,1-Dichloroethane	**2.0**	**J**	5.0	0.59	ug/L			10/05/18 13:28	1
1,1-Dichloroethylene	**7.7**		5.0	0.85	ug/L			10/05/18 13:28	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/18 13:28	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/18 13:28	1
1,4-Dioxane	ND		200	15	ug/L			10/05/18 13:28	1
Acetone	ND		25	2.0	ug/L			10/05/18 13:28	1
Benzene	ND		5.0	0.60	ug/L			10/05/18 13:28	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/18 13:28	1
Chloroform	ND		5.0	0.54	ug/L			10/05/18 13:28	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/18 13:28	1
Toluene	ND		5.0	0.45	ug/L			10/05/18 13:28	1
Trichloroethylene	**3.6**	**J**	5.0	0.60	ug/L			10/05/18 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*68 - 130*		*10/05/18 13:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*10/05/18 13:28*	*1*
Toluene-d8 (Surr)	*91*		*77 - 120*		*10/05/18 13:28*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/05/18 13:28*	*1*

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-142882-1

Client Sample ID: 5R

Lab Sample ID: 480-142882-3

Date Collected: 10/02/18 10:10

Matrix: Water

Date Received: 10/04/18 01:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/08/18 12:44	10/09/18 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**361**		10.0	4.0	mg/L			10/09/18 15:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/09/18 21:44	1
pH	**7.1**	**HF**	0.1	0.1	SU			10/09/18 09:56	1
Temperature	**20.6**	**HF**	0.001	0.001	Degrees C			10/09/18 09:56	1

Client Sample ID: COMBINED INFLUENT

Lab Sample ID: 480-142882-4

Date Collected: 10/02/18 10:20

Matrix: Water

Date Received: 10/04/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**43**		5.0	0.39	ug/L			10/05/18 13:51	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/18 13:51	1
1,1-Dichloroethane	**10**		5.0	0.59	ug/L			10/05/18 13:51	1
1,1-Dichloroethylene	**12**		5.0	0.85	ug/L			10/05/18 13:51	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/18 13:51	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/18 13:51	1
1,4-Dioxane	ND		200	15	ug/L			10/05/18 13:51	1
Acetone	ND		25	2.0	ug/L			10/05/18 13:51	1
Benzene	ND		5.0	0.60	ug/L			10/05/18 13:51	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/18 13:51	1
Chloroform	ND		5.0	0.54	ug/L			10/05/18 13:51	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/18 13:51	1
Toluene	ND		5.0	0.45	ug/L			10/05/18 13:51	1
Trichloroethylene	**3.7**	**J**	5.0	0.60	ug/L			10/05/18 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*10/05/18 13:51*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*10/05/18 13:51*	*1*
Toluene-d8 (Surr)	*90*		*77 - 120*		*10/05/18 13:51*	*1*
Dibromofluoromethane (Surr)	*93*		*75 - 123*		*10/05/18 13:51*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/08/18 12:44	10/09/18 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**367**		10.0	4.0	mg/L			10/09/18 15:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/09/18 21:44	1
pH	**7.0**	**HF**	0.1	0.1	SU			10/09/18 09:59	1
Temperature	**20.5**	**HF**	0.001	0.001	Degrees C			10/09/18 09:59	1

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-142882-1

Client Sample ID: EFFLUENT
Date Collected: 10/02/18 10:00
Date Received: 10/04/18 01:00

Lab Sample ID: 480-142882-5
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/05/18 14:14	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/05/18 14:14	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/05/18 14:14	1
1,1-Dichloroethylene	ND		5.0	0.85	ug/L			10/05/18 14:14	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/05/18 14:14	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/05/18 14:14	1
1,4-Dioxane	ND		200	15	ug/L			10/05/18 14:14	1
Acetone	ND		25	2.0	ug/L			10/05/18 14:14	1
Benzene	ND		5.0	0.60	ug/L			10/05/18 14:14	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/05/18 14:14	1
Chloroform	ND		5.0	0.54	ug/L			10/05/18 14:14	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/05/18 14:14	1
Toluene	ND		5.0	0.45	ug/L			10/05/18 14:14	1
Trichloroethylene	ND		5.0	0.60	ug/L			10/05/18 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*68 - 130*		*10/05/18 14:14*	*1*
4-Bromofluorobenzene (Surr)	*98*		*76 - 123*		*10/05/18 14:14*	*1*
Toluene-d8 (Surr)	*91*		*77 - 120*		*10/05/18 14:14*	*1*
Dibromofluoromethane (Surr)	*94*		*75 - 123*		*10/05/18 14:14*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		10/08/18 12:44	10/09/18 12:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**359**		10.0	4.0	mg/L			10/09/18 15:24	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			10/09/18 21:44	1
pH	**8.2**	**HF**	0.1	0.1	SU			10/09/18 10:01	1
Temperature	**20.7**	**HF**	0.001	0.001	Degrees C			10/09/18 10:01	1

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-142882-1

Client Sample ID: 7R

Lab Sample ID: 480-142882-1

Date Collected: 10/02/18 10:15

Matrix: Water

Date Received: 10/04/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	437821	10/05/18 12:40	S1V	TAL BUF
Total/NA	Prep	200.7			438046	10/08/18 12:44	JAK	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	438563	10/09/18 11:55	EMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	438477	10/09/18 15:24	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	438536	10/09/18 21:44	RAF	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	438424	10/09/18 09:51	KEB	TAL BUF

Client Sample ID: ERT-1

Lab Sample ID: 480-142882-2

Date Collected: 10/02/18 10:05

Matrix: Water

Date Received: 10/04/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	437821	10/05/18 13:04	S1V	TAL BUF
Total/NA	Prep	200.7			438046	10/08/18 12:44	JAK	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	438563	10/09/18 11:59	EMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	438477	10/09/18 15:24	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	438536	10/09/18 21:44	RAF	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	438424	10/09/18 09:54	KEB	TAL BUF

Client Sample ID: 5R

Lab Sample ID: 480-142882-3

Date Collected: 10/02/18 10:10

Matrix: Water

Date Received: 10/04/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	437821	10/05/18 13:28	S1V	TAL BUF
Total/NA	Prep	200.7			438046	10/08/18 12:44	JAK	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	438563	10/09/18 12:03	EMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	438477	10/09/18 15:24	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	438536	10/09/18 21:44	RAF	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	438424	10/09/18 09:56	KEB	TAL BUF

Client Sample ID: COMBINED INFLUENT

Lab Sample ID: 480-142882-4

Date Collected: 10/02/18 10:20

Matrix: Water

Date Received: 10/04/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	437821	10/05/18 13:51	S1V	TAL BUF
Total/NA	Prep	200.7			438046	10/08/18 12:44	JAK	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	438563	10/09/18 12:07	EMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	438477	10/09/18 15:24	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	438536	10/09/18 21:44	RAF	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-142882-1

Client Sample ID: COMBINED INFLUENT

Lab Sample ID: 480-142882-4

Date Collected: 10/02/18 10:20

Matrix: Water

Date Received: 10/04/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 H+ B		1	438424	10/09/18 09:59	KEB	TAL BUF

Client Sample ID: EFFLUENT

Lab Sample ID: 480-142882-5

Date Collected: 10/02/18 10:00

Matrix: Water

Date Received: 10/04/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	437821	10/05/18 14:14	S1V	TAL BUF
Total/NA	Prep	200.7			438046	10/08/18 12:44	JAK	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	438563	10/09/18 12:11	EMB	TAL BUF
Total/NA	Analysis	SM 2540C		1	438477	10/09/18 15:24	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	438536	10/09/18 21:44	RAF	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	438424	10/09/18 10:01	KEB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-142882-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	1,4-Dioxane
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-142882-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-142882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-142882-1	7R	Water	10/02/18 10:15	10/04/18 01:00
480-142882-2	ERT-1	Water	10/02/18 10:05	10/04/18 01:00
480-142882-3	5R	Water	10/02/18 10:10	10/04/18 01:00
480-142882-4	COMBINED INFLUENT	Water	10/02/18 10:20	10/04/18 01:00
480-142882-5	EFFLUENT	Water	10/02/18 10:00	10/04/18 01:00

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-142882-1

Login Number: 142882

List Source: TestAmerica Buffalo

List Number: 1

Creator: Harper, Marcus D

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

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

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN

480-142882 COC

Client Information	Sampler: Andrew Talbot + Lewis Gelinas	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-108477-1
Client Contact: Andrew Talbot	Phone: (518)-885-5383	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: Aztech Technologies Inc				Job #:

Address: 5 McCrea Hill Road	Due Date Requested:	
City: Ballston Spa	TAT Requested (days): Standard	
State, Zip: NY, 12020		
Phone: 518-402-9813(Tel)	PO #: CallOut 121912	
Email: atalbot@aztechenv.com	WO #:	
Project Name: Mohonk Rd. #356023	Project #: 48005267	
Site: Mohonk Road	SSOW#:	

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624_5ml - (MOD) Priority Pollutant List - VOA - 62	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	N	N	N		
7R		10:15	G	Water			X	X	X	X	X		unfiltered in field
ERT-1		10:05	G	Water			X	X	X	X	X		
5R		10:10	G	Water			X	X	X	X	X		
Combined Influent		10:20	G	Water			X	X	X	X	X		
Effluent		10:00	G	Water			X	X	X	X	X		
	RZ	10-3-18											

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

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

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

Special Instructions/QC Requirements:

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

	Date/Time	Company		Date/Time	Company
Relinquished by:	10/2/18 15:30	Aztech	Received by: Karl Jaehn	10-3-18 0700	TA
Relinquished by: Karl Jaehn	10-3-18 1800	TA	Received by:	10/4/18 0100	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
Δ Yes Δ No		2.7°C #3

Ver: 08/04/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-144882-1
Client Project/Site: Mohonk Rd. #356023

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Charles Gregory

Judy Stone

Authorized for release by:
11/30/2018 1:23:43 PM

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

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-144882-1

Qualifiers

GC/MS VOA

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

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-144882-1

Job ID: 480-144882-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-144882-1

Receipt
The samples were received on 11/8/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

Receipt Exceptions
The following samples were cancelled for the TSS analysis because volume could not be found. 5R (480-144882-3) and Effluent (480-144882-5)

GC/MS VOA
Method(s) 624.1: The continuing calibration verification (CCV) associated with batch 480-444561 recovered above the upper control limit for 1,4-Dioxane. The samples associated with this CCV were non-detects for the affected analyte, therefore, the data have been reported. The following samples are impacted: 7R (480-144882-1), ERT-1 (480-144882-2), 5R (480-144882-3), Combined Influent (480-144882-4) and Effluent (480-144882-5).

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

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

General Chemistry
Method(s) SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 7R (480-144882-1), ERT-1 (480-144882-2), 5R (480-144882-3), Combined Influent (480-144882-4) and Effluent (480-144882-5).

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

Client Sample ID: 7R

Lab Sample ID: 480-144882-1

Date Collected: 11/07/18 10:55

Matrix: Water

Date Received: 11/08/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**71**		5.0	0.39	ug/L			11/09/18 13:33	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/18 13:33	1
1,1-Dichloroethane	**25**		5.0	0.59	ug/L			11/09/18 13:33	1
1,1-Dichloroethylene	**11**		5.0	0.85	ug/L			11/09/18 13:33	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/18 13:33	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/18 13:33	1
1,4-Dioxane	ND		200	15	ug/L			11/09/18 13:33	1
Acetone	ND		25	2.0	ug/L			11/09/18 13:33	1
Benzene	ND		5.0	0.60	ug/L			11/09/18 13:33	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/18 13:33	1
Chloroform	ND		5.0	0.54	ug/L			11/09/18 13:33	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/18 13:33	1
Toluene	ND		5.0	0.45	ug/L			11/09/18 13:33	1
Trichloroethylene	**2.3**	**J**	5.0	0.60	ug/L			11/09/18 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*11/09/18 13:33*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*11/09/18 13:33*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*11/09/18 13:33*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*11/09/18 13:33*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		11/12/18 09:38	11/14/18 12:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**380**	**B**	10.0	4.0	mg/L			11/12/18 13:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/13/18 16:43	1
pH	**7.3**	**HF**	0.1	0.1	SU			11/29/18 16:52	1
Temperature	**15.3**	**HF**	0.001	0.001	Degrees C			11/29/18 16:52	1

Client Sample ID: ERT-1

Lab Sample ID: 480-144882-2

Date Collected: 11/07/18 10:58

Matrix: Water

Date Received: 11/08/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**70**		5.0	0.39	ug/L			11/09/18 13:56	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/18 13:56	1
1,1-Dichloroethane	**11**		5.0	0.59	ug/L			11/09/18 13:56	1
1,1-Dichloroethylene	**22**		5.0	0.85	ug/L			11/09/18 13:56	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/18 13:56	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/18 13:56	1
1,4-Dioxane	ND		200	15	ug/L			11/09/18 13:56	1
Acetone	ND		25	2.0	ug/L			11/09/18 13:56	1
Benzene	ND		5.0	0.60	ug/L			11/09/18 13:56	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/18 13:56	1
Chloroform	ND		5.0	0.54	ug/L			11/09/18 13:56	1

Client Sample ID: ERT-1

Lab Sample ID: 480-144882-2

Date Collected: 11/07/18 10:58

Matrix: Water

Date Received: 11/08/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/18 13:56	1
Toluene	ND		5.0	0.45	ug/L			11/09/18 13:56	1
Trichloroethylene	**6.8**		5.0	0.60	ug/L			11/09/18 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*68 - 130*		*11/09/18 13:56*	*1*
4-Bromofluorobenzene (Surr)	*104*		*76 - 123*		*11/09/18 13:56*	*1*
Toluene-d8 (Surr)	*96*		*77 - 120*		*11/09/18 13:56*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/09/18 13:56*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		11/12/18 09:38	11/14/18 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**405**	**B**	10.0	4.0	mg/L			11/12/18 13:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/13/18 16:43	1
pH	**7.2**	**HF**	0.1	0.1	SU			11/29/18 16:59	1
Temperature	**14.8**	**HF**	0.001	0.001	Degrees C			11/29/18 16:59	1

Client Sample ID: 5R

Lab Sample ID: 480-144882-3

Date Collected: 11/07/18 10:20

Matrix: Water

Date Received: 11/08/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**43**		5.0	0.39	ug/L			11/09/18 14:19	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/18 14:19	1
1,1-Dichloroethane	**3.0**	**J**	5.0	0.59	ug/L			11/09/18 14:19	1
1,1-Dichloroethylene	**12**		5.0	0.85	ug/L			11/09/18 14:19	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/18 14:19	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/18 14:19	1
1,4-Dioxane	ND		200	15	ug/L			11/09/18 14:19	1
Acetone	**2.1**	**J**	25	2.0	ug/L			11/09/18 14:19	1
Benzene	ND		5.0	0.60	ug/L			11/09/18 14:19	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/18 14:19	1
Chloroform	ND		5.0	0.54	ug/L			11/09/18 14:19	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/18 14:19	1
Toluene	ND		5.0	0.45	ug/L			11/09/18 14:19	1
Trichloroethylene	**4.8**	**J**	5.0	0.60	ug/L			11/09/18 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 130*		*11/09/18 14:19*	*1*
4-Bromofluorobenzene (Surr)	*99*		*76 - 123*		*11/09/18 14:19*	*1*
Toluene-d8 (Surr)	*95*		*77 - 120*		*11/09/18 14:19*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*11/09/18 14:19*	*1*

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-144882-1

Client Sample ID: 5R

Lab Sample ID: 480-144882-3

Date Collected: 11/07/18 10:20

Matrix: Water

Date Received: 11/08/18 01:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		11/12/18 09:38	11/14/18 13:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**363**	**B**	10.0	4.0	mg/L			11/12/18 13:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.8**	**HF**	0.1	0.1	SU			11/29/18 17:02	1
Temperature	**14.9**	**HF**	0.001	0.001	Degrees C			11/29/18 17:02	1

Client Sample ID: Combined Influent

Lab Sample ID: 480-144882-4

Date Collected: 11/07/18 10:04

Matrix: Water

Date Received: 11/08/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**65**		5.0	0.39	ug/L			11/09/18 15:07	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/18 15:07	1
1,1-Dichloroethane	**14**		5.0	0.59	ug/L			11/09/18 15:07	1
1,1-Dichloroethylene	**17**		5.0	0.85	ug/L			11/09/18 15:07	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/18 15:07	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/18 15:07	1
1,4-Dioxane	ND		200	15	ug/L			11/09/18 15:07	1
Acetone	**2.6**	**J**	25	2.0	ug/L			11/09/18 15:07	1
Benzene	ND		5.0	0.60	ug/L			11/09/18 15:07	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/18 15:07	1
Chloroform	ND		5.0	0.54	ug/L			11/09/18 15:07	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/18 15:07	1
Toluene	ND		5.0	0.45	ug/L			11/09/18 15:07	1
Trichloroethylene	**5.2**		5.0	0.60	ug/L			11/09/18 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 130*		*11/09/18 15:07*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 123*		*11/09/18 15:07*	*1*
Toluene-d8 (Surr)	*92*		*77 - 120*		*11/09/18 15:07*	*1*
Dibromofluoromethane (Surr)	*97*		*75 - 123*		*11/09/18 15:07*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		11/12/18 09:38	11/14/18 13:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**373**	**B**	10.0	4.0	mg/L			11/12/18 13:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/13/18 16:43	1
pH	**7.2**	**HF**	0.1	0.1	SU			11/29/18 17:05	1
Temperature	**14.9**	**HF**	0.001	0.001	Degrees C			11/29/18 17:05	1

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-144882-1

Client Sample ID: Effluent
Date Collected: 11/07/18 09:45
Date Received: 11/08/18 01:00

Lab Sample ID: 480-144882-5
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/09/18 15:31	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/18 15:31	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/09/18 15:31	1
1,1-Dichloroethylene	ND		5.0	0.85	ug/L			11/09/18 15:31	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/18 15:31	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/18 15:31	1
1,4-Dioxane	ND		200	15	ug/L			11/09/18 15:31	1
Acetone	**2.9**	**J**	25	2.0	ug/L			11/09/18 15:31	1
Benzene	ND		5.0	0.60	ug/L			11/09/18 15:31	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/18 15:31	1
Chloroform	ND		5.0	0.54	ug/L			11/09/18 15:31	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/18 15:31	1
Toluene	ND		5.0	0.45	ug/L			11/09/18 15:31	1
Trichloroethylene	ND		5.0	0.60	ug/L			11/09/18 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 130*		*11/09/18 15:31*	*1*
4-Bromofluorobenzene (Surr)	*105*		*76 - 123*		*11/09/18 15:31*	*1*
Toluene-d8 (Surr)	*95*		*77 - 120*		*11/09/18 15:31*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*11/09/18 15:31*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		11/12/18 09:38	11/14/18 13:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**375**	**B**	10.0	4.0	mg/L			11/12/18 13:51	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**	**HF**	0.1	0.1	SU			11/29/18 17:08	1
Temperature	**15.3**	**HF**	0.001	0.001	Degrees C			11/29/18 17:08	1

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-144882-1

Client Sample ID: 7R

Lab Sample ID: 480-144882-1

Date Collected: 11/07/18 10:55

Matrix: Water

Date Received: 11/08/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	444561	11/09/18 13:33	S1V	TAL BUF
Total/NA	Prep	200.7			444737	11/12/18 09:38	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	445593	11/14/18 12:49	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	445034	11/12/18 13:51	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	445342	11/13/18 16:43	KTP	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	448375	11/29/18 16:52	MRF	TAL BUF

Client Sample ID: ERT-1

Lab Sample ID: 480-144882-2

Date Collected: 11/07/18 10:58

Matrix: Water

Date Received: 11/08/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	444561	11/09/18 13:56	S1V	TAL BUF
Total/NA	Prep	200.7			444737	11/12/18 09:38	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	445593	11/14/18 13:04	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	445034	11/12/18 13:51	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	445342	11/13/18 16:43	KTP	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	448375	11/29/18 16:59	MRF	TAL BUF

Client Sample ID: 5R

Lab Sample ID: 480-144882-3

Date Collected: 11/07/18 10:20

Matrix: Water

Date Received: 11/08/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	444561	11/09/18 14:19	S1V	TAL BUF
Total/NA	Prep	200.7			444737	11/12/18 09:38	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	445593	11/14/18 13:08	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	445034	11/12/18 13:51	RAF	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	448375	11/29/18 17:02	MRF	TAL BUF

Client Sample ID: Combined Influent

Lab Sample ID: 480-144882-4

Date Collected: 11/07/18 10:04

Matrix: Water

Date Received: 11/08/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	444561	11/09/18 15:07	S1V	TAL BUF
Total/NA	Prep	200.7			444737	11/12/18 09:38	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	445593	11/14/18 13:19	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	445034	11/12/18 13:51	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	445342	11/13/18 16:43	KTP	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	448375	11/29/18 17:05	MRF	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-144882-1

Client Sample ID: Effluent
Date Collected: 11/07/18 09:45
Date Received: 11/08/18 01:00

Lab Sample ID: 480-144882-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	444561	11/09/18 15:31	S1V	TAL BUF
Total/NA	Prep	200.7			444737	11/12/18 09:38	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	445593	11/14/18 13:23	LMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	445034	11/12/18 13:51	RAF	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	448375	11/29/18 17:08	MRF	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-144882-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	1,4-Dioxane
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-144882-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-144882-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-144882-1	7R	Water	11/07/18 10:55	11/08/18 01:00
480-144882-2	ERT-1	Water	11/07/18 10:58	11/08/18 01:00
480-144882-3	5R	Water	11/07/18 10:20	11/08/18 01:00
480-144882-4	Combined Influent	Water	11/07/18 10:04	11/08/18 01:00
480-144882-5	Effluent	Water	11/07/18 09:45	11/08/18 01:00

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

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: John STUTZKE	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-108478-1580
Client Contact: Andrew Talbot	Phone: (518) 857-8763	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: Aztech Technologies Inc				Job #:

480-144882 COC

Address: 5 McCrea Hill Road	Due Date Requested:
City: Ballston Spa	TAT Requested (days):
State, Zip: NY, 12020	
Phone:	PO #: CallOut 121912
Email: atalbot@aztechenv.com	WO #:
Project Name: Mohonk Rd. #356023	Project #: 48005267
Site:	SSOW#:

Analysis Requested

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

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624_5ml - (MOD) Priority Pollutant List - VOA - 62	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	N		
7R	11/7/18	10:55	G	Water			X	X	X	X	X		
ERT-1	11/7/18	10:50	G	Water			X	X	X	X	X		
5R	11/7/18	10:20	G	Water			X	X	X	X	X		
Combined Influent	11/7/18	10:04	G	Water			X	X	X	X	X		
Effluent	11/7/18	9:45	G	Water			X	X	X	X	X		

11-7-18

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by: John Stutzke	Date/Time: 11/7/18 1411	Company: Aztech	Received by: Tim Kneller	Date/Time: 11-7-18 1411	Company: TA
Relinquished by: Tim Kneller	Date/Time: 11-7-18 1800	Company: TA ATB	Received by: Lorac Velicenza	Date/Time: 11-8-18 1100	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.8	# 1

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-144882-1

Login Number: 144882

List Source: TestAmerica Buffalo

List Number: 1

Creator: Velickovic, Zoran

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-146780-1
Client Project/Site: Mohonk Rd. #356023

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, New York 12233-7014

Attn: Charles Gregory

Joseph V. Giacomazza

Authorized for release by:
1/8/2019 3:38:14 PM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

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

Table of Contents

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-146780-1

Qualifiers

GC/MS VOA

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-146780-1

Job ID: 480-146780-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-146780-1

Receipt
The samples were received on 12/14/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

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

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

General Chemistry
Method(s) 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: 7R (480-146780-1), ERT-1 (480-146780-2), 5R (480-146780-3), Combined Influent (480-146780-4) and Effluent (480-146780-5).

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

Client Sample ID: 7R

Date Collected: 12/12/18 13:00
Date Received: 12/14/18 01:00

Lab Sample ID: 480-146780-1
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**80**		5.0	0.39	ug/L			12/17/18 22:47	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/17/18 22:47	1
1,1-Dichloroethane	**27**		5.0	0.59	ug/L			12/17/18 22:47	1
1,1-Dichloroethylene	**11**		5.0	0.85	ug/L			12/17/18 22:47	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/17/18 22:47	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/17/18 22:47	1
1,4-Dioxane	ND		200	15	ug/L			12/17/18 22:47	1
Acetone	ND		25	2.0	ug/L			12/17/18 22:47	1
Benzene	ND		5.0	0.60	ug/L			12/17/18 22:47	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/17/18 22:47	1
Chloroform	ND		5.0	0.54	ug/L			12/17/18 22:47	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/17/18 22:47	1
Toluene	ND		5.0	0.45	ug/L			12/17/18 22:47	1
Trichloroethylene	**2.0**	**J**	5.0	0.60	ug/L			12/17/18 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 130*		*12/17/18 22:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*12/17/18 22:47*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*12/17/18 22:47*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*12/17/18 22:47*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		12/27/18 08:31	12/28/18 00:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**370**		10.0	4.0	mg/L			12/17/18 10:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			12/18/18 16:45	1
pH	**7.3**	**HF**	0.1	0.1	SU			12/16/18 13:21	1
Temperature	**17.8**	**HF**	0.001	0.001	Degrees C			12/16/18 13:21	1

Client Sample ID: ERT-1

Date Collected: 12/12/18 12:50
Date Received: 12/14/18 01:00

Lab Sample ID: 480-146780-2
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**88**		5.0	0.39	ug/L			12/17/18 23:11	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/17/18 23:11	1
1,1-Dichloroethane	**12**		5.0	0.59	ug/L			12/17/18 23:11	1
1,1-Dichloroethylene	**26**		5.0	0.85	ug/L			12/17/18 23:11	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/17/18 23:11	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/17/18 23:11	1
1,4-Dioxane	ND		200	15	ug/L			12/17/18 23:11	1
Acetone	ND		25	2.0	ug/L			12/17/18 23:11	1
Benzene	ND		5.0	0.60	ug/L			12/17/18 23:11	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/17/18 23:11	1
Chloroform	ND		5.0	0.54	ug/L			12/17/18 23:11	1

Client Sample ID: ERT-1

Lab Sample ID: 480-146780-2

Date Collected: 12/12/18 12:50

Matrix: Water

Date Received: 12/14/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0	0.81	ug/L			12/17/18 23:11	1
Toluene	ND		5.0	0.45	ug/L			12/17/18 23:11	1
Trichloroethylene	**7.8**		5.0	0.60	ug/L			12/17/18 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*68 - 130*		*12/17/18 23:11*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*12/17/18 23:11*	*1*
Toluene-d8 (Surr)	*97*		*77 - 120*		*12/17/18 23:11*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*12/17/18 23:11*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		12/27/18 08:31	12/28/18 00:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**371**		10.0	4.0	mg/L			12/17/18 10:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			12/18/18 16:45	1
pH	**7.4**	**HF**	0.1	0.1	SU			12/16/18 13:24	1
Temperature	**17.8**	**HF**	0.001	0.001	Degrees C			12/16/18 13:24	1

Client Sample ID: 5R

Lab Sample ID: 480-146780-3

Date Collected: 12/12/18 12:55

Matrix: Water

Date Received: 12/14/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**41**		5.0	0.39	ug/L			12/17/18 23:35	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/17/18 23:35	1
1,1-Dichloroethane	**2.6**	**J**	5.0	0.59	ug/L			12/17/18 23:35	1
1,1-Dichloroethylene	**11**		5.0	0.85	ug/L			12/17/18 23:35	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/17/18 23:35	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/17/18 23:35	1
1,4-Dioxane	ND		200	15	ug/L			12/17/18 23:35	1
Acetone	ND		25	2.0	ug/L			12/17/18 23:35	1
Benzene	ND		5.0	0.60	ug/L			12/17/18 23:35	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/17/18 23:35	1
Chloroform	ND		5.0	0.54	ug/L			12/17/18 23:35	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/17/18 23:35	1
Toluene	ND		5.0	0.45	ug/L			12/17/18 23:35	1
Trichloroethylene	**3.9**	**J**	5.0	0.60	ug/L			12/17/18 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*12/17/18 23:35*	*1*
4-Bromofluorobenzene (Surr)	*103*		*76 - 123*		*12/17/18 23:35*	*1*
Toluene-d8 (Surr)	*95*		*77 - 120*		*12/17/18 23:35*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*12/17/18 23:35*	*1*

Client Sample ID: 5R

Lab Sample ID: 480-146780-3

Date Collected: 12/12/18 12:55

Matrix: Water

Date Received: 12/14/18 01:00

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		12/27/18 08:31	12/28/18 00:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**379**		10.0	4.0	mg/L			12/17/18 10:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			12/18/18 16:45	1
pH	**7.4**	**HF**	0.1	0.1	SU			12/16/18 13:28	1
Temperature	**17.9**	**HF**	0.001	0.001	Degrees C			12/16/18 13:28	1

Client Sample ID: Combined Influent

Lab Sample ID: 480-146780-4

Date Collected: 12/12/18 12:45

Matrix: Water

Date Received: 12/14/18 01:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**75**		5.0	0.39	ug/L			12/17/18 23:59	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/17/18 23:59	1
1,1-Dichloroethane	**15**		5.0	0.59	ug/L			12/17/18 23:59	1
1,1-Dichloroethylene	**17**		5.0	0.85	ug/L			12/17/18 23:59	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/17/18 23:59	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/17/18 23:59	1
1,4-Dioxane	ND		200	15	ug/L			12/17/18 23:59	1
Acetone	ND		25	2.0	ug/L			12/17/18 23:59	1
Benzene	ND		5.0	0.60	ug/L			12/17/18 23:59	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/17/18 23:59	1
Chloroform	ND		5.0	0.54	ug/L			12/17/18 23:59	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/17/18 23:59	1
Toluene	ND		5.0	0.45	ug/L			12/17/18 23:59	1
Trichloroethylene	**5.3**		5.0	0.60	ug/L			12/17/18 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 130*		*12/17/18 23:59*	*1*
4-Bromofluorobenzene (Surr)	*101*		*76 - 123*		*12/17/18 23:59*	*1*
Toluene-d8 (Surr)	*99*		*77 - 120*		*12/17/18 23:59*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*12/17/18 23:59*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		12/27/18 08:31	12/28/18 00:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**379**		10.0	4.0	mg/L			12/17/18 10:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			12/18/18 16:45	1
pH	**7.4**	**HF**	0.1	0.1	SU			12/16/18 13:32	1
Temperature	**18.1**	**HF**	0.001	0.001	Degrees C			12/16/18 13:32	1

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-146780-1

Client Sample ID: Effluent
Date Collected: 12/12/18 12:40
Date Received: 12/14/18 01:00

Lab Sample ID: 480-146780-5
Matrix: Water

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			12/18/18 00:23	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			12/18/18 00:23	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			12/18/18 00:23	1
1,1-Dichloroethylene	ND		5.0	0.85	ug/L			12/18/18 00:23	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			12/18/18 00:23	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			12/18/18 00:23	1
1,4-Dioxane	ND		200	15	ug/L			12/18/18 00:23	1
Acetone	**2.4**	**J**	25	2.0	ug/L			12/18/18 00:23	1
Benzene	ND		5.0	0.60	ug/L			12/18/18 00:23	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			12/18/18 00:23	1
Chloroform	ND		5.0	0.54	ug/L			12/18/18 00:23	1
Methylene Chloride	ND		5.0	0.81	ug/L			12/18/18 00:23	1
Toluene	ND		5.0	0.45	ug/L			12/18/18 00:23	1
Trichloroethylene	ND		5.0	0.60	ug/L			12/18/18 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 130*		*12/18/18 00:23*	*1*
4-Bromofluorobenzene (Surr)	*102*		*76 - 123*		*12/18/18 00:23*	*1*
Toluene-d8 (Surr)	*98*		*77 - 120*		*12/18/18 00:23*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*12/18/18 00:23*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		12/27/18 08:31	12/28/18 00:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**390**		10.0	4.0	mg/L			12/17/18 10:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			12/18/18 16:45	1
pH	**8.2**	**HF**	0.1	0.1	SU			12/16/18 13:34	1
Temperature	**17.9**	**HF**	0.001	0.001	Degrees C			12/16/18 13:34	1

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-146780-1

Client Sample ID: 7R

Lab Sample ID: 480-146780-1

Date Collected: 12/12/18 13:00

Matrix: Water

Date Received: 12/14/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	451197	12/17/18 22:47	S1V	TAL BUF
Total/NA	Prep	200.7			452130	12/27/18 08:31	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	452817	12/28/18 00:32	AMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	451194	12/17/18 10:46	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	451502	12/18/18 16:45	KTP	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	451113	12/16/18 13:21	KEB	TAL BUF

Client Sample ID: ERT-1

Lab Sample ID: 480-146780-2

Date Collected: 12/12/18 12:50

Matrix: Water

Date Received: 12/14/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	451197	12/17/18 23:11	S1V	TAL BUF
Total/NA	Prep	200.7			452130	12/27/18 08:31	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	452817	12/28/18 00:35	AMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	451194	12/17/18 10:46	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	451502	12/18/18 16:45	KTP	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	451113	12/16/18 13:24	KEB	TAL BUF

Client Sample ID: 5R

Lab Sample ID: 480-146780-3

Date Collected: 12/12/18 12:55

Matrix: Water

Date Received: 12/14/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	451197	12/17/18 23:35	S1V	TAL BUF
Total/NA	Prep	200.7			452130	12/27/18 08:31	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	452817	12/28/18 00:39	AMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	451194	12/17/18 10:46	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	451502	12/18/18 16:45	KTP	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	451113	12/16/18 13:28	KEB	TAL BUF

Client Sample ID: Combined Influent

Lab Sample ID: 480-146780-4

Date Collected: 12/12/18 12:45

Matrix: Water

Date Received: 12/14/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	451197	12/17/18 23:59	S1V	TAL BUF
Total/NA	Prep	200.7			452130	12/27/18 08:31	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	452817	12/28/18 00:43	AMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	451194	12/17/18 10:46	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	451502	12/18/18 16:45	KTP	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-146780-1

Client Sample ID: Combined Influent

Lab Sample ID: 480-146780-4

Date Collected: 12/12/18 12:45
Matrix: Water
Date Received: 12/14/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 H+ B		1	451113	12/16/18 13:32	KEB	TAL BUF

Client Sample ID: Effluent

Lab Sample ID: 480-146780-5

Date Collected: 12/12/18 12:40
Matrix: Water
Date Received: 12/14/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	451197	12/18/18 00:23	S1V	TAL BUF
Total/NA	Prep	200.7			452130	12/27/18 08:31	VEG	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	452817	12/28/18 00:57	AMH	TAL BUF
Total/NA	Analysis	SM 2540C		1	451194	12/17/18 10:46	RAF	TAL BUF
Total/NA	Analysis	SM 2540D		1	451502	12/18/18 16:45	KTP	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	451113	12/16/18 13:34	KEB	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-146780-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
624.1		Water	1,4-Dioxane
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

Method Summary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-146780-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF
200.7	Preparation, Total Metals	EPA	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Project/Site: Mohonk Rd. #356023

TestAmerica Job ID: 480-146780-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-146780-1	7R	Water	12/12/18 13:00	12/14/18 01:00
480-146780-2	ERT-1	Water	12/12/18 12:50	12/14/18 01:00
480-146780-3	5R	Water	12/12/18 12:55	12/14/18 01:00
480-146780-4	Combined Influent	Water	12/12/18 12:45	12/14/18 01:00
480-146780-5	Effluent	Water	12/12/18 12:40	12/14/18 01:00

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-146780-1

Login Number: 146780

List Source: TestAmerica Buffalo

List Number: 1

Creator: Velickovic, Zoran

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

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

Albany #224

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIR

Client Information	Sampler: AT+EL	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-108479-15807
Client Contact: Andrew Talbot	Phone: 518-470-0411	E-Mail: judy.stone@testamericainc.com		Page: Page 1 of 1
Company: Aztech Technologies Inc				Job #: 480-146780 COC

Address: 5 McCrea Hill Road	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Ballston Spa	TAT Requested (days): Standard		A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: NY, 12020			
Phone:	PO #: CallOut 136396		
Email: atalbot@aztechenv.com	WO #:		
Project Name: Mohonk Rd. #356023	Project #: 48005267		
Site: Mohonk Road	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - Iron	624_5ml - (MOD) Priority Pollutant List - VOA - 62	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	N	N		
7R	12/12/18	13:00	G	Water	N	N	X	X	X	X	X		
ERT-1		12:50	G	Water	N	N	X	X	X	X	X		
5R		12:55	G	Water	N	N	X	X	X	X	X		
Combined Influent		12:45	G	Water	N	N	X	X	X	X	X		
Effluent		12:40	G	Water	N	N	X	X	X	X	X		

KL 12-13-18

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		12/12/18 13:15	Aztech		12-13-18 0720	TA
2		12-12-18 1800	TA		12/14/18 0100	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.2 #3

Ver: 08/04/2016