November 20, 2020

Mr. Gary Priscott
NYSDEC Region 7
1679 Route 11
Kirkwood, New York 12885

Re: Periodic Groundwater Monitoring Report
Former Ithaca Gun Factory - Offsite
121 – 125 Lake Street, Ithaca, Tompkins County, New York
NYSDEC Site No. C755019A

Dear Mr. Priscott:

Aztech Technologies, Inc. (Aztech) has prepared the following correspondence that summarizes the 2020 groundwater sampling event performed at the above referenced site between November 2, 2020 and November 4, 2020. Overall, the groundwater monitoring conditions appear to be generally consistent with the previous monitoring events between 2013 and 20218.

If you have any questions regarding the information contained herein, please contact Aztech at (518) 885-5383.

Sincerely,

Thomas Giamichael, P.G.
Project Manager/Senior Environmental Geologist

Enclosure

Cc: File

Periodic Groundwater Monitoring Report

PREPARED FOR:
New York State Department of Environmental Conservation
Region 7
1679 Route 11
Kirkwood, New York 12885
Attn: Gary Priscott

SUBJECT SITE:
Former Ithaca Gun Factory - Offsite
1121 – 125 Lake Street
Ithaca, Tompkins County, New York

NYSDEC Site No. C755019A

November 20, 2020

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REPORT DATE: **November 20, 2020**

REPORT NAME: **Periodic Groundwater Monitoring Report**

SUBJECT SITE: **Former Ithaca Gun Factory - Offsite**
121 – 125 Lake Street, Ithaca, Tompkins County, New York
NYSDEC Site No. C755019A

SITE PHASE: **Groundwater Monitoring and Sampling**

1.0 INTRODUCTION

LaBella Associates (Labella), Formerly Aztech Environmental Technologies (Aztech) has prepared this correspondence to document the continued groundwater monitoring efforts at the above referenced site. The November 2020 periodic groundwater sampling event was conducted to monitor the presence and nature of site-related volatile organic compounds (VOCs) in groundwater.

1.1 PROJECT BACKGROUND

The Ithaca Gun Company operated from approximately 1885 through 1986 at a property located to the east and uphill from this off-site neighborhood area. The main operations included manufacturing of firearms and munitions. Supporting manufacturing activities and site uses included: spray painting; oven drying of gun stocks; firing ranged; metal plating; machine shop, and; forging. Operations at the Ithaca Gun Company appear to have led to the contamination of both on-site and near off-site areas.

From 1995 to 1998, following discovery of lead shot in the Fall Creek gorge area, soil sampling was conducted in on-site and off-site areas. In 2000, leaking transformers and associated PCB-contaminated soils were removed from the site. From 2001 to 2004, the USEPA conducted a removal assessment, limited building demolition, and soil removal activities (mostly on adjacent off-site areas; however, some portions of the former Ithaca Gun Factory property were included). In 2001, an Environmental Site Assessment and a Site Investigation were completed on behalf of, and funded by, the property owner at the time. In 2002, the former Ithaca Gun Factory property entered the Voluntary Cleanup Program (VCP), with the site identification number of V00511. The original factory property has since been divided and is identified as two separate sites; the Ithaca Falls Overlook, Environmental Restoration Program (ERP) site which is owned by the City of Ithaca, and the Former Ithaca Gun Factory, BCP site which is owned by IFR Development, LLC.

Laboratory analytical results of groundwater samples collected in 2012, as part of investigations for the ERP site, indicated presence of VOCs, specifically tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene, and vinyl chloride, at monitoring wells

hydraulically down-gradient from the BCP site with concentrations exceeding respective NYSDEC groundwater standards. The ERP investigations were limited to areas east of Lake Street. As a result, in July 2013, the NYSDEC contracted Aztech to conduct a subsurface investigation and characterization of an off-site area located topographically down-gradient from the former Ithaca Gun Factory site and in areas west of Lake Street. Investigation details and results are documented in the report titled "Site Characterization Report for Former Ithaca Gun Factory – Offsite", dated February 2014.

The site characterization work included collection of groundwater and soil vapor samples from temporary points installed using direct-push technology, installation of permanent groundwater monitoring wells, a professional survey, and groundwater sampling from the monitoring wells. The site characterization results have allowed for the general delineation of the area with presence of VOCs.

The site characterization laboratory analytical data indicated that VOCs were detected in the groundwater; however, all compounds detected were below their respective NYSDEC groundwater standards. The only apparent site related VOC detected in groundwater was TCE with concentrations ranging from 0.82 to 4.8 micrograms per liter (µg/l); the groundwater standard for TCE is 5 µg/l. TCE was detected in five of the ten wells sampled. Soil vapor results indicated presence of more VOCs than those detected in groundwater; however, the primary contaminant of concern in soil vapor is TCE.

Additional groundwater sampling events conducted between November 2013 and August 2018 indicated similar conditions to those reported for the site characterization. Detectable concentrations of TCE ranged from 1.3 to 4.4 µg/l in the monitoring well network. Results for these groundwater sampling events are summarized in individual sampling reports

2.0 DESCRIPTION OF FIELD WORK

- November 2 through 4, 2020: Groundwater gauging and sampling for VOC analysis at ten (10) monitoring wells.

2.1 PROCEDURES

- Sampling commenced by locating and opening the wells that would be sampled. After allowing groundwater levels within each well to equilibrate with atmospheric conditions, depth to groundwater measurements were collected on November 2, 2020 using an electronic water level meter graduated in 0.01 foot intervals. Depth to groundwater measurements were taken from the top of monitoring well casings.

- Each sampled monitoring well was purged using low flow sampling techniques. Purging was accomplished using dedicated high density polyethylene (HDPE) tubing (attached to a peristaltic pump) in order to draw groundwater from each well and into a flow-thru cell. The flow-thru cell was equipped with a multi-parameter water quality probe that recorded the water quality field parameters (WQFPs) of temperature, pH, specific conductance, dissolved oxygen, oxidation-reduction potential, and turbidity.

- The groundwater samples were collected in appropriate bottleware supplied by the analytical laboratory, placed on ice in a cooler, and transported under proper chain of custody to the laboratory.

- The groundwater samples were analyzed within the applicable holding times for the NYSDEC full list of volatile organic compounds (VOCs), using United States Environmental Protection Agency (USEPA) Methods 8260C.

2.2 ANALYTICAL LABORATORY

Eurofins TestAmerica – 10 Hazelwood Drive, Amherst, New York 14228
New York Certification Number ELAP NY 10026

2.3 RESULTS

- Monitoring wells AZMW-1, AZMW-2, AZMW-3, AZMW-4, AZMW-5, AZMW-6, AZMW-7, AZMW-8, MW-6, and MW-7 were gauged on November 2, 2020. All groundwater elevation data is presented on **Table 1**. The groundwater flow direction on this date was to the west-southwest (**Figure 1**).

- The final WQFPs and turbidity measurements obtained from each sampled location are presented on **Table 2**. A complete copy of the low flow sampling logs are provided in **Attachment A**.

- The VOC results of the groundwater sampling event are shown on **Table 3**. A copy of the groundwater laboratory analytical report is provided in **Attachment B**. The groundwater VOC distribution is shown as **Figure 2**. During the November 2 and November 4, 2020 groundwater sampling event three (3) VOC constituents, trichloroethene (TCE), cis-1,2-dichloroethene and chloroform were identified in groundwater samples collected.

- TCE was detected in monitoring wells AZMW-3, AZMW-4, AZMW-6, AZMW-7 and MW-7. Concentrations of TCE ranged between 0.82 micrograms per liter (µg/l) in AZMW-7 and 4.1 µg/l in MW-7 and were below the NYS Groundwater Quality Standard (GQS) of 5.0 µg/l in all wells sampled on November 2 and 4, 2020.

- The compound cis-1,2-dichloroethene is a breakdown by product of TCE and was detected only in monitoring well MW-7 at a concentration of 1.5 µg/l. This detection is below the NYS GQS of 5.0 µg/l.

- Chloroform was detected in monitoring wells AZMW-1, AZMW-3, AZMW-4, AZMW-5, AZMW-6, AZMW-8 and MW-7. Concentrations of Chloroform ranged between 0.66 µg/l in AZMW-4 and 3.9 µg/l in AZMW-8 and were below the NYS GQS of 7.0 µg/l in all wells sampled on November 2 and 4, 2020.

- No VOC constituents were detected in monitoring wells AZMW-2 and MW-6 during the groundwater monitoring event.

3.0 DATA USABILITY SUMMARY REPORT (DUSR)

ZData Reports validation service of Syracuse, New York validated the analytical data package submitted to Labella by Eurofins TestAmerica. Analytical data packages are submitted as sample delivery groups (SDGs) based on the number of samples within each shipment received at the laboratory for analysis. The SDG associated with this groundwater sampling event was reviewed for completeness and compliance as defined by the requirements for NYSDEC Analytical Services Protocol Category B deliverables.

Data validation was completed for ten (10) groundwater samples and three (3) quality assurance/quality control samples. USEPA Method 8260C analyses data were determined to be usable for qualitative and quantitative purposes. Refer to the DUSR report for further details (**Attachment C**).

4.0 SUMMARY & CONCLUSION

- The groundwater flow direction beneath the site was to the west-southwest on November 2, 2020.

- TCE was detected in five (5) monitoring wells and was below the NYS GQS in all wells sampled between November 2 and 4, 2020. These concentrations of TCE are generally consistent with historical groundwater monitoring trends.

- cis-1,2-dichloroethene was detected in one (1) monitoring well below the NYS GQS.

- Chloroform was detected in seven (7) monitoring wells and was below the NYS GQS in all wells sampled between November 2 and 4, 2020. Chloroform is not a VOC related to the Former Ithaca Gun Factory site.

- No VOCs were detected in monitoring wells AZMW-2 and MW-6 during November 2 and 4, 2020.

FIGURES

EAST FALLS STREET

EAST LINCOLN STREET

QUEEN STREET

NORTH TIOGA STREET

NORTH AURORA STREET

LINN STREET

LAKE STREET

FALL CREEK

AZMW-8
383.26

AZMW-7
383.52

AZMW-3
383.31

AZMW-4
383.33

AZMW-6
382.95

AZMW-5
383.02

AZMW-2
382.75

AZMW-1
383.47

MW-6
394.72

MW-7
394.29

385.00'

387.00'

389.00'

391.00'

393.00'

395.00'

383.00'

PARK/NATURAL AREA

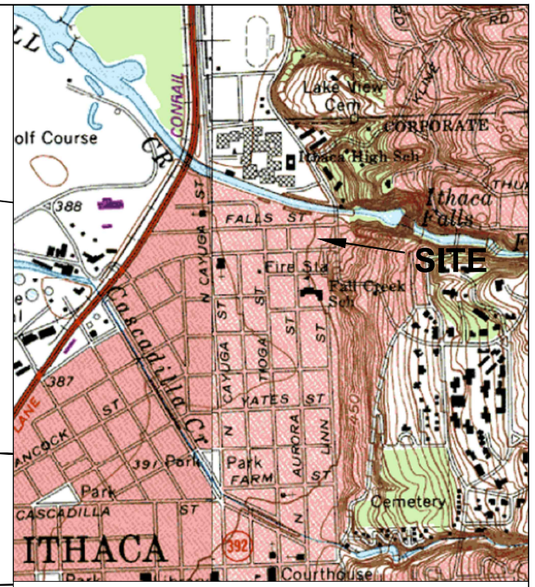
LOCATION OF FORMER ITHACA GUN FACTORY

N

W

E

S



LEGEND

- MW-7 — Monitoring Well
- Calculated Isopleth
- Inferred Isopleth
- 394.32 — Water Table Elevation (MSL)
- Generalized Direction of Groundwater Flow

Former Ithaca Gun Factory - Offsite

NYSDEC Site #C755019A
Ithaca, New York

Figure 1

DATE: November, 2020

Scale 1" = 100'

GROUNDWATER COUNTOUR MAP

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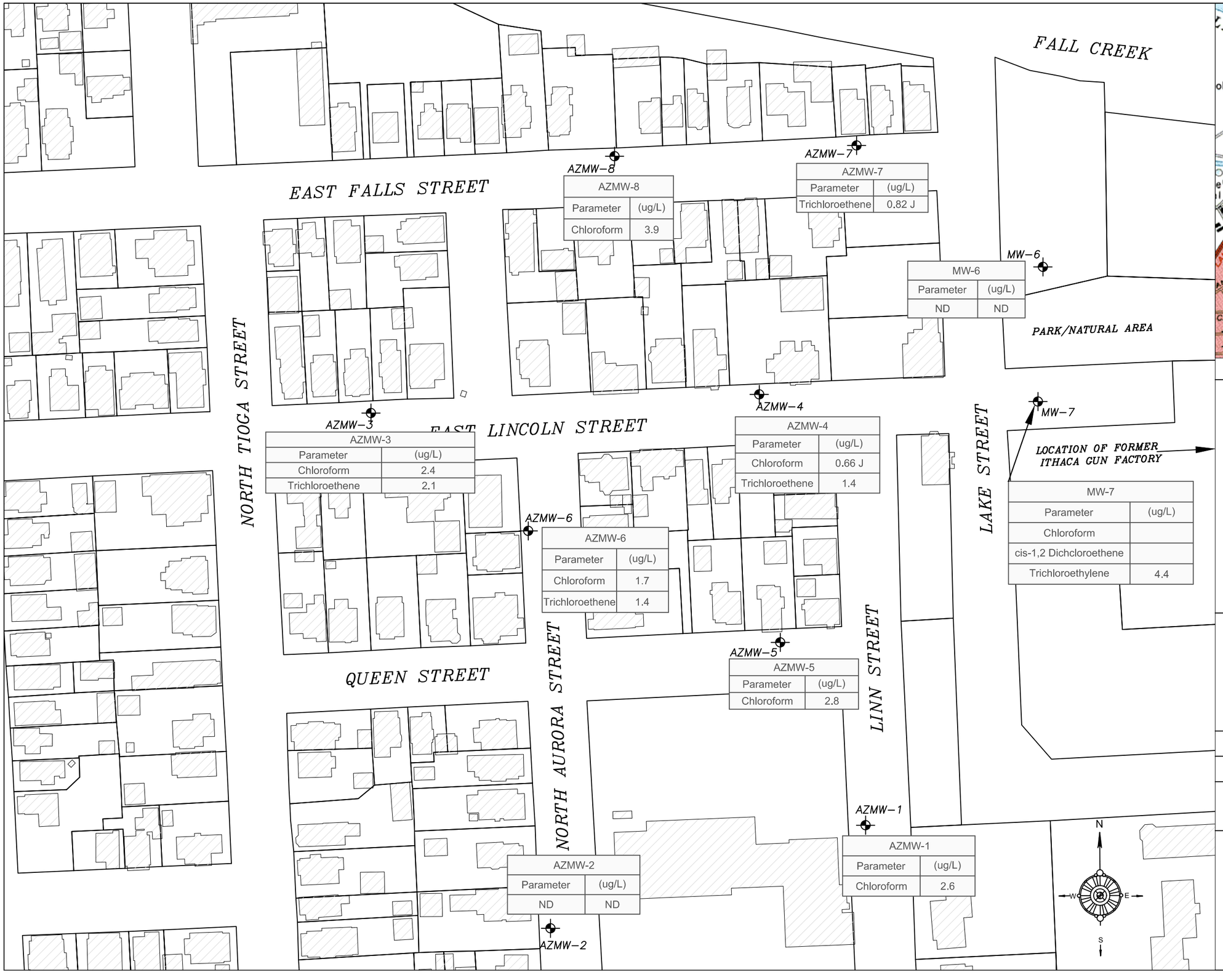

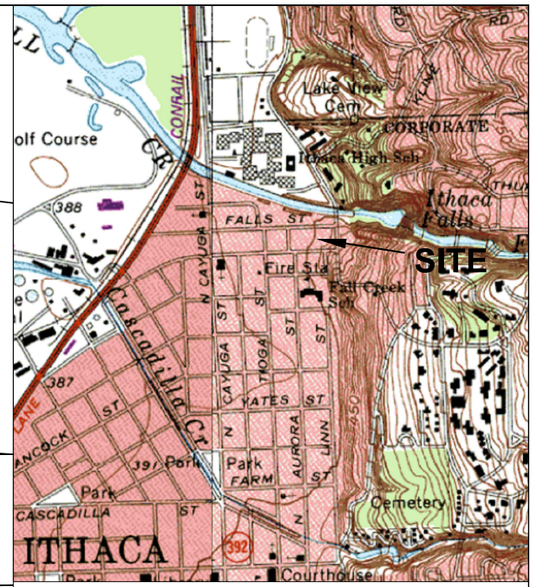

LEGEND

MW-7 Monitoring Well

Former Ithaca Gun Factory - Offsite

NYSDEC Site #C755019A
Ithaca, New York

Figure 2

DATE: November, 2020 | Scale 1" = 100'

GROUNDWATER VOC DISTRIBUTION MAP

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TABLES

TABLE 1

GROUNDWATER ELEVATIONS

November 2, 2020

MONITORING WELL DESIGNATION		AZMW-1	AZMW-2	AZMW-3	AZMW-4	AZMW-5	AZMW-6	AZMW-7	AZMW-8	MW-6	MW-7
TOP OF CASING		408.29	394.38	395.28	402.32	406.06	396.63	403.95	398.08	423.69	432.38
Date		**GROUNDWATER ELEVATIONS**									
11/4/2013	DTW	25.15	11.81	12.18	19.21	23.30	13.91	20.58	15.01	30.69	37.91
	GW Elev	383.14	382.57	383.10	383.11	382.76	382.72	383.37	383.07	393.00	394.47
6/19/2014	DTW	24.27	11.00	11.39	18.35	22.43	13.07	19.42	14.13	28.86	37.87
	GW Elev	384.02	383.38	383.89	383.97	383.63	383.56	384.53	383.95	394.83	394.51
9/30/2015	DTW	24.89	11.50	11.78	18.80	22.87	13.50	20.00	14.56	28.79	37.81
	GW Elev	383.40	382.88	383.50	383.52	383.19	383.13	383.95	383.52	394.90	394.57
8/28/2018	DTW	24.78	11.56	11.93	18.93	22.98	13.63	20.38	14.76	30.53	38.06
	GW Elev	383.51	382.82	383.35	383.39	383.08	383.00	383.57	383.32	393.16	394.32
11/2/2020	DTW	24.82	11.63	11.97	18.99	23.04	13.68	20.43	14.82	28.97	38.09
	GW Elev	383.47	382.75	383.31	383.33	383.02	382.95	383.52	383.26	394.72	394.29

Notes:

GW Elev = Groundwater Elevation (ft.)

DTW = Depth to water (ft.)

TOC data from T. G. Miller survey conducted 10/24/2013

TABLE 2

FINAL GROUNDWATER QUALITY MEASUREMENTS

November 2 to 4, 2020

Well ID	Date Sampled	Groundwater Quality Parameter					
		Turbidity (NTU)	pH	Temperature (F°)	Dissolved Oxygen (mg/L)	Conductivity (mS/cm)	ORP (mV)
AZMW-1	11/3/2020	5.0	7.98	55.9	7.35	5.10	180
AZMW-2	11/3/2020	5.4	5.39	59.8	0.56	1.63	-47
AZMW-3	11/3/2020	0.3	7.68	59.9	1.65	1.040	283
AZMW-4	11/3/2020	0.3	7.12	54.4	2.14	0.519	331
AZMW-5	11/2/2020	15.7	8.80	56.1	2.78	1.58	199
AZMW-6	11/3/2020	4.2	6.83	57.8	1.42	0.715	253
AZMW-7	11/2/2020	5.5	5.38	62.9	2.02	0.682	370
AZMW-8	11/2/2020	30.2	6.69	54.8	2.95	0.454	330
MW-6	11/4/2020	7.3	1.90 *	54.5	0.88	0.998	24
MW-7	11/4/2020	25.4	8.62	47.7	4.93	1.85	160

Notes:

All values are reported as final measurement prior to sampling

NTU - Nephelometric Turbidity Unit

mg/L - Milligrams per Liter

mS/cm - MicroSiemens per centimeter

ORP - Oxygen Reducing Potential

mV - milliVolts

* - pH meter malfuntion

TABLE 3
LABORATORY GROUNDWATER ANALYTICAL RESULTS
Volatile Organic Compounds
November 2 to 4, 2020

Well ID	Date Sampled	Compound List - 8260 Full List																																														
		1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trichlorobenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Hexanone	2-Butanone (MEK)	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Dibromochloromethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methyl acetate	MtBE	Methylcyclohexane	Methylene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl chloride	Xylenes, Total	Total VOC's
SCGs (µg/L)		5	5	5	5	5	5	10	5	5	4.7	5	5	5	4.7	50	50	50	50	1.0	50	50	5	50	5	5	50	5	7	5	5	5	50	5	5	5	50	10	50	5	5	5	5	5	5	5	5	2	5	-
AZMW-1	11/6/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	0.76 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8
	8/29/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2
	11/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6
AZMW-2	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AZMW-3	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	2.6
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.43 J	ND	ND	ND	ND	ND	ND	ND	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	8.1
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.2	ND	ND	ND	4.5
	11/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND	4.5
AZMW-4	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.98 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	2.8
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	2.2
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	2.1
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	ND	1.6
	11/3/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.66 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	2.1
AZMW-5	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.0
	10/1/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	0.38 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9
	8/29/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.0
	11/2/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8
AZMW-6	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	ND	6.9
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	5.7
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	ND	ND	ND	6.4
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	5.8
	11/2/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	3.1
AZMW-7	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	0.8
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.45 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	1.9
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.68 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND	ND	2.1
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.82 J	ND	ND	ND	0.8
AZMW-8	11/5/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.3
	6/19/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5
	10/2/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**18**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	18
	8/28/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/2/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9
MW-6	11/4/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.30 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/1/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/29/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	11/4/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-7	11/4/2013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND	4.2
	6/20/2014	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	ND	4.3
	9/30/2015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Nd	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.6	ND	ND	ND	0.8
	8/29/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Nd	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4	ND	ND	ND	4.4
	11/4/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Nd	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.5	ND	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.1	ND	ND	ND	7.1

Notes:
All values are reported in micrograms per liter (µg/L or ppb)
Standards, Criteria, and Guidance Values (SCGs) for groundwater – Ambient Water Quality Standards and Guidance Values (TOGs 1.1.1), 6 NYCRR Part 703, Surface water and Groundwater Quality Standards, and Part 5 fo the New York State Sanitary Code (10 NYCRR Part 5).
BOLD values indicate exceedance of applicable NYSDEC guidance values
ND: Not Detected Above Applicable Laboratory Detection Limits
J - Laboratory Qualifier (Result is less than the reporting limit, but greater than the method detection limit and the concentration is an approximate value)
MtBE: methyl tertiary-Butyl Ether
BTEX: benzene, toluene, ethylbenzene, and xylenes

ATTACHMENT - 1

Groundwater Quality Measurements – Field Logs

Site Name: Ithaca Gun - Off

Site Location:

Sample By: T. G.

Well Information: ~~1~~ 1"

Flush Mount or Riser:

Measuring Point:

Elevation:

Riser Diameter: 1.5"

Calculation:

Well ID: AZMW-7

Date: 11/2/20

Weather: overcast / snow 32°

Pumping Equipment: Peri.

Decon Method:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	20.43	—
12:35	0.1	162	6.88	56.0	4.63	0.684	272	20.50	
12:45	0.6	20.9	6.95	62.2	2.92	0.688	274	20.51	
12:55	1.2	24.0	6.98	63.3	2.52	0.684	278	20.51	
13:05	1.6	8.0	5.01	62.9	2.74	0.682	385	20.51	
13:10	1.9	7.8	5.11	62.9	2.10	0.682	371	20.51	
13:15	2.1	7.5	5.32	62.9	2.05	0.682	369	20.51	
* 13:20	2.3	5.5	5.38	62.9	2.02	0.682	0.370	20.51	

Site Name: ITL --- Gulf - offsite

Site Location:

Sample By: T. Grim

Well ID: AZMW-8

Date: 11/2/2020

Weather: overcast 37°

Pumping Equipment: P.I.

Decon Method:

Well Information:

Flush Mount or Riser:

Measuring Point:

Elevation:

Riser Diameter: 1.5"

Calculation:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	14.85	—
13:35	0.05	161	5.92	55.7	3.30	0.507	388	14.92	
13:45	0.3	152	5.87	54.9	2.82	0.465	380	14.92	
13:55	1.0	61.0	6.05	54.8	2.90	0.456	369	14.92	
14:05	1.4	30.8	6.73	54.7	3.04	0.454	331	14.92	
14:10	1.7	29.2	6.68	54.8	2.94	0.455	332	14.92	
14:15	2.0	30.2	6.69	54.8	2.95	0.454	330	14.92	

Site Name: IHAAP Gun - offsite

Site Location:

Sample By: T. G.

Well Information:

Flush Mount or Riser:

Measuring Point:

Elevation:

Riser Diameter: 1.5"

Calculation:

Well ID: ARMW-5

Date: 11/2/20

Weather: overcast 32°

Pumping Equipment: Peri

Decon Method:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	23.04	—
14:35	0.1	83.2	8.78	55.2	2.77	1.41	219	23.14	
14:45	0.4	56.2	8.77	56.4	2.37	1.85	203	23.23	
14:55	0.7	48.8	8.70	56.3	2.41	1.73	204	23.24	
15:05	1.2	27.0	8.62	56.3	2.62	1.64	210	23.24	
15:15	1.5	21.9	8.59	56.1	2.58	1.62	212	23.24	
15:20	2.0	15.6	8.79	56.1	2.79	1.58	200	23.24	
15:25	2.4	15.7	8.80	56.1	2.78	1.58	199	23.24	

Site Name: Ithaca Gun - offsite

Site Location:

Sample By: T. Gia

Well ID: AZMW-6

Date: 11/3/20

Weather: overcast 32°

Pumping Equipment: Peri

Decon Method:

Well Information:

Flush Mount or Riser:

Measuring Point:

Elevation:

Riser Diameter: 1.5"

Calculation:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	13.70	—
↑	0.1	11.2	7.01	55.2	14.37	0.742	280	13.71	
0755									
805	0.5	12.6	6.83	57.2	2.32	0.709	260	13.71	
815	1.0	8.2	6.83	57.6	1.92	0.706	254	13.71	
08:25	1.6	5.4	6.84	57.7	1.66	0.708	253	13.71	
08:30	1.8	5.4	6.84	57.7	1.58	0.711	253	13.71	
08:35	1.9	4.6	6.84	57.7	1.52	0.712	254	13.71	
08:40	2.1	3.9	6.83	57.7	1.46	0.713	253	13.71	
08:45	2.3	4.2	6.83	57.8	1.42	0.715	253	13.71	

Site Name: Ithaca Gun - [illegible]

Site Location:

Sample By:

Well ID: AZMW-3

Date: 11/3/20

Weather: overcast 35°

Pumping Equipment: [illegible]

Decon Method:

Well Information:

Flush Mount or Riser:

Measuring Point:

Elevation:

Riser Diameter: 1.5"

Calculation:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	11.99	—
10:40	0.1	39.5	7.00	56.5	3.66	0.977	367	11.99	
10:50	0.7	17.9	7.18	58.9	2.45	1.01	340	11.99	
11:00	0.9	10.6	7.54	59.6	1.84	1.03	308	11.99	
11:10	1.3	2.1	7.81	59.9	1.74	1.04	281	11.99	
11:20	1.6	0.7	7.77	60.0	1.60	1.04	280	11.99	
11:25	1.8	0.0	7.68	59.9	1.63	1.04	282	11.99	
11:30	2.0	0.4	7.68	60.0	1.64	1.04	283	11.99	
11:35	2.1	0.3	7.68	59.9	1.65	1.04	283	11.99	

Site Name: Ithaca Gun - offsite

Site Location:

Sample By: T. G.

Well ID: AZMW-4

Date: 11/3/20

Weather: overcast

Pumping Equipment: Peri

Decon Method:

Well Information:

Flush Mount or Riser:

Measuring Point:

Elevation:

Riser Diameter: 1.5"

Calculation:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	19.02	—
12:30	0.1	56.1	7.26	54.4	4.18	0.544	344	19.02	
12:40	0.4	13.7	7.17	54.3	2.85	0.521	339	19.02	
12:50	0.9	6.7	7.16	54.4	2.40	0.520	336	19.02	
13:00	1.1	0.8	7.15	54.4	2.24	0.519	334	19.02	
13:10	1.3	0.0	7.13	54.3	2.18	0.519	333	19.02	
13:15	1.5	0.5	7.12	54.4	2.15	0.519	332	19.02	
13:20	1.7	0.0	7.12	54.4	2.14	0.519	331	19.02	
13:25	1.9	0.3	7.12	54.4	2.14	0.519	331	19.02	

FD-1

Site Name: Ithaca Gun _offsite	**Well ID:** A2MW-2
Site Location:	**Date:** 11/3/20
Sample By: T. [illegible]	**Weather:** overcast/Rain 40
	Pumping Equipment: Peri
Well Information:	**Decon Method:**
Flush Mount or Riser:	
Measuring Point:	
Elevation:	
Riser Diameter: 1.5"	
Calculation:	

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	13.65	—
13:45	0.1	94.4	5.93	57.6	2.87	1.63	-37	13.68	
13:55	0.4	11.3	5.51	59.6	0.92	1.64	-42	13.68	
14:05	0.9	7.2	5.44	59.8	0.71	1.63	-45	13.68	
14:15	1.2	4.6	5.41	59.8	0.61	1.63	-47	13.68	
14:20	1.5	5.6	5.42	59.8	0.59	1.63	-47	13.68	
14:25	1.7	5.4	5.39	59.8	0.56	1.63	-47	13.68	

Site Name: Three Guns - offsite

Site Location:

Sample By: T. Chin

Well ID: AZMW-1

Date: 11/3/20

Weather: overcast 40°

Pumping Equipment: Peri

Decon Method:

Well Information:

Flush Mount or Riser:

Measuring Point:

Elevation:

Riser Diameter: 1"

Calculation:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	24.84	—
14:45	0.1	45.1	7.04	55.9	5.41	3.49	104	25.00	
14:55	0.3	35.2	7.58	55.9	7.30	5.20	134	25.00	
15:05	0.6	12.0	7.65	55.9	7.37	5.19	166	25.00	
15:15	1.0	8.0	7.81	55.9	7.33	5.14	174	25.00	
15:20	1.2	7.1	7.89	55.9	7.37	5.13	177	25.00	
15:25	1.4	5.7	7.95	55.8	7.33	5.12	180	25.00	
15:30	1.6	5.0	7.98	55.9	7.35	5.10	180	25.00	

Site Name: [illegible]

Site Location:

Sample By: T [illegible]

Well Information:

Flush Mount or Riser:

Measuring Point:

Elevation:

Riser Diameter: 2"

Calculation:

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Well ID: MW-7

Date: 11/4/20

Weather: Sunny 50°

Pumping Equipment: Peri

Decon Method:

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	38.16	—
0755	0.2	67.0	8.52	49.0	6.51	2.36	90	40.19	
0800	0.3	36.4	8.45	48.8	3.99	2.30	87	40.40	
0815	0.6	52.4	8.49	49.6	4.72	1.91	110	40.55	
0825	0.9	38.9	8.57	47.9	5.05	1.83	139	40.55	
0830	1.0	30.6	8.58	48.1	5.02	1.84	144	40.55	
0835	1.2	27.3	8.60	47.9	4.91	1.84	149	40.55	
0840	1.4	25.3	8.62	47.6	4.94	1.84	155	40.55	
0845	1.5	25.4	8.62	47.7	4.93	1.85	160	40.55	

MS/MSD

Site Name: Ithaca Gun - offsite	Well ID: MW-6
Site Location:	Date: 11/4/20
Sample By: T. Gr	Weather: Sunny 50°
	Pumping Equipment: Peri
Well Information:	Decon Method:
Flush Mount or Riser:	
Measuring Point:	
Elevation:	
Riser Diameter: 2"	
Calculation:	

Dia. Well	Gal/ft
1	0.0408
1.5	0.0918
2	0.1631
3	0.3670
4	0.6525
5	1.0195
6	1.4681
8	2.6100

Stabilization is achieved when the following changes are noted over three consecutive 3-5 minute readings:

± 0.1 change in pH

± 3% change in conductivity

± 10 millivolt change in ORP

± 10% change in DO and Turbidity

Time	Volume Removed (Gal.)	Turbidity (NTU)	pH	Temperature (F)	Dissolved 02 (mg/L)	Conductivity (mS/cm)	ORP (mV)	Depth to Water (ft.)	Pumping Rate
—	—	—	—	—	—	—	—	29.46	—
09:15	0.1	30.1	3.42	50.2	2.02	1.01	65	31.33	
09:25	0.3	27.8	2.63	51.6	1.10	0.989	42	31.90	
9:35	0.8	27.0	2.09	52.4	0.83	0.982	29	32.25	
9:45	1.1	18.9	1.98	52.6	0.79	0.988	13	32.29	
9:55	1.4	15.1	1.93	52.8	0.81	0.997	11	32.48	
10:00									
10:05	1.6	10.9	1.89	53.9	0.79	0.998	16	32.61	
10:10	1.7	10.6	1.90	54.3	0.78	0.999	16	32.70	
10:15	1.9	9.3	1.91	54.9	0.82	1.00	17	32.90	
10:20	2.1	7.5	1.91	54.6	0.86	1.00	21	30.09	
10:25	2.3	7.3	1.90	54.5	0.88	0.998	24	30.40	

ATTACHMENT - 2

Laboratory Analytical Report (Groundwater Sampling)

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-177773-1
Client Project/Site: Former Ithaca Gun Factory #C755019A

For:
New York State D.E.C.
615 Erie Blvd., West
Syracuse, New York 13204

Attn: Gary Priscott

Authorized for release by:
11/14/2020 3:04:54 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

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

Judy Stone
Senior Project Manager
11/14/2020 3:04:54 PM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Qualifiers

GC/MS VOA

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

Glossary

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

Job ID: 480-177773-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-177773-1

Receipt
The samples were received on 11/7/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and 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.

Detection Summary

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Client Sample ID: AZMW-7 — Lab Sample ID: 480-177773-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.82	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: AZMW-8 — Lab Sample ID: 480-177773-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	3.9		1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: AZMW-5 — Lab Sample ID: 480-177773-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.8		1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: AZMW-6 — Lab Sample ID: 480-177773-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.7		1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: AZMW-3 — Lab Sample ID: 480-177773-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.4		1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	2.1		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: AZMW-4 — Lab Sample ID: 480-177773-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.66	J	1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: AZMW-2 — Lab Sample ID: 480-177773-7

No Detections.

Client Sample ID: AZMW-1 — Lab Sample ID: 480-177773-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.6		1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 480-177773-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.5		1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.5		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	4.1		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: MW-6 — Lab Sample ID: 480-177773-10

No Detections.

Client Sample ID: FD-1 — Lab Sample ID: 480-177773-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.58	J	1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Client Sample ID: AZMW-7
Lab Sample ID: 480-177773-1
Date Collected: 11/02/20 13:20
Matrix: Water
Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 14:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 14:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 14:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 14:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 14:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 14:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 14:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 14:17	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 14:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 14:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 14:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 14:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 14:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 14:17	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 14:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 14:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 14:17	1
Acetone	ND		10	3.0	ug/L			11/09/20 14:17	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 14:17	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 14:17	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 14:17	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 14:17	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 14:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 14:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 14:17	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 14:17	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 14:17	1
Chloroform	ND		1.0	0.34	ug/L			11/09/20 14:17	1
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 14:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 14:17	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 14:17	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 14:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 14:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 14:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 14:17	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 14:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 14:17	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 14:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 14:17	1
Styrene	ND		1.0	0.73	ug/L			11/09/20 14:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 14:17	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 14:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 14:17	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 14:17	1
Trichloroethene	**0.82**	**J**	1.0	0.46	ug/L			11/09/20 14:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 14:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 14:17	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 14:17	1

Client Sample ID: AZMW-7
Lab Sample ID: 480-177773-1

Date Collected: 11/02/20 13:20
Matrix: Water
Date Received: 11/07/20 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*11/09/20 14:17*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/09/20 14:17*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*11/09/20 14:17*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*11/09/20 14:17*	*1*

Client Sample ID: AZMW-8
Lab Sample ID: 480-177773-2

Date Collected: 11/02/20 14:15
Matrix: Water
Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 14:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 14:40	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 14:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 14:40	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 14:40	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 14:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 14:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 14:40	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 14:40	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 14:40	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 14:40	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 14:40	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 14:40	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 14:40	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 14:40	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 14:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 14:40	1
Acetone	ND		10	3.0	ug/L			11/09/20 14:40	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 14:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 14:40	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 14:40	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 14:40	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 14:40	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 14:40	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 14:40	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 14:40	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 14:40	1
Chloroform	**3.9**		1.0	0.34	ug/L			11/09/20 14:40	1
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 14:40	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 14:40	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 14:40	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 14:40	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 14:40	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 14:40	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 14:40	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 14:40	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 14:40	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 14:40	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 14:40	1

Client Sample ID: AZMW-8

Lab Sample ID: 480-177773-2

Date Collected: 11/02/20 14:15

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			11/09/20 14:40	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 14:40	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 14:40	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 14:40	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 14:40	1
Trichloroethene	ND		1.0	0.46	ug/L			11/09/20 14:40	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 14:40	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 14:40	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*11/09/20 14:40*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*11/09/20 14:40*	*1*
4-Bromofluorobenzene (Surr)	*112*		*73 - 120*		*11/09/20 14:40*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*11/09/20 14:40*	*1*

Client Sample ID: AZMW-5

Lab Sample ID: 480-177773-3

Date Collected: 11/02/20 15:25

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 15:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 15:03	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 15:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 15:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 15:03	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 15:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 15:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 15:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 15:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 15:03	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 15:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 15:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 15:03	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 15:03	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 15:03	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 15:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 15:03	1
Acetone	ND		10	3.0	ug/L			11/09/20 15:03	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 15:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 15:03	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 15:03	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 15:03	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 15:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 15:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 15:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 15:03	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 15:03	1
Chloroform	**2.8**		1.0	0.34	ug/L			11/09/20 15:03	1

Client Sample ID: AZMW-5

Lab Sample ID: 480-177773-3

Date Collected: 11/02/20 15:25

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 15:03	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 15:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 15:03	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 15:03	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 15:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 15:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 15:03	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 15:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 15:03	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 15:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 15:03	1
Styrene	ND		1.0	0.73	ug/L			11/09/20 15:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 15:03	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 15:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 15:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 15:03	1
Trichloroethene	ND		1.0	0.46	ug/L			11/09/20 15:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 15:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 15:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/09/20 15:03*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/09/20 15:03*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*11/09/20 15:03*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*11/09/20 15:03*	*1*

Client Sample ID: AZMW-6

Lab Sample ID: 480-177773-4

Date Collected: 11/03/20 08:45

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 15:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 15:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 15:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 15:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 15:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 15:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 15:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 15:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 15:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 15:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 15:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 15:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 15:26	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 15:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 15:26	1

Client Sample ID: AZMW-6

Lab Sample ID: 480-177773-4

Date Collected: 11/03/20 08:45

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.0	ug/L			11/09/20 15:26	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 15:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 15:26	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 15:26	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 15:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 15:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 15:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 15:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 15:26	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 15:26	1
Chloroform	**1.7**		1.0	0.34	ug/L			11/09/20 15:26	1
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 15:26	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 15:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 15:26	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 15:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 15:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 15:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 15:26	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 15:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 15:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 15:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 15:26	1
Styrene	ND		1.0	0.73	ug/L			11/09/20 15:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 15:26	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 15:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 15:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 15:26	1
Trichloroethene	**1.4**		1.0	0.46	ug/L			11/09/20 15:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 15:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 15:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*11/09/20 15:26*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*11/09/20 15:26*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*11/09/20 15:26*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*11/09/20 15:26*	*1*

Client Sample ID: AZMW-3

Lab Sample ID: 480-177773-5

Date Collected: 11/03/20 11:35

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 15:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 15:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 15:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 15:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 15:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 15:49	1

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Client Sample ID: AZMW-3
Lab Sample ID: 480-177773-5
Date Collected: 11/03/20 11:35
Matrix: Water
Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 15:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 15:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 15:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 15:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 15:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 15:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 15:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 15:49	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 15:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 15:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 15:49	1
Acetone	ND		10	3.0	ug/L			11/09/20 15:49	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 15:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 15:49	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 15:49	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 15:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 15:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 15:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 15:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 15:49	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 15:49	1
Chloroform	**2.4**		1.0	0.34	ug/L			11/09/20 15:49	1
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 15:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 15:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 15:49	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 15:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 15:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 15:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 15:49	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 15:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 15:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 15:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 15:49	1
Styrene	ND		1.0	0.73	ug/L			11/09/20 15:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 15:49	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 15:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 15:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 15:49	1
Trichloroethene	**2.1**		1.0	0.46	ug/L			11/09/20 15:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 15:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 15:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*11/09/20 15:49*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/09/20 15:49*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*11/09/20 15:49*	*1*
Dibromofluoromethane (Surr)	*113*		*75 - 123*		*11/09/20 15:49*	*1*

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Client Sample ID: AZMW-4
Lab Sample ID: 480-177773-6

Date Collected: 11/03/20 13:25
Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 16:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 16:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 16:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 16:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 16:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 16:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 16:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 16:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 16:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 16:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 16:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 16:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 16:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 16:12	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 16:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 16:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 16:12	1
Acetone	ND		10	3.0	ug/L			11/09/20 16:12	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 16:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 16:12	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 16:12	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 16:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 16:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 16:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 16:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 16:12	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 16:12	1
Chloroform	**0.66**	**J**	1.0	0.34	ug/L			11/09/20 16:12	1
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 16:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 16:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 16:12	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 16:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 16:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 16:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 16:12	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 16:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 16:12	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 16:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 16:12	1
Styrene	ND		1.0	0.73	ug/L			11/09/20 16:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 16:12	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 16:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 16:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 16:12	1
Trichloroethene	**1.4**		1.0	0.46	ug/L			11/09/20 16:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 16:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 16:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 16:12	1

Client Sample ID: AZMW-4

Lab Sample ID: 480-177773-6

Date Collected: 11/03/20 13:25

Matrix: Water

Date Received: 11/07/20 08:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*11/09/20 16:12*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*11/09/20 16:12*	*1*
4-Bromofluorobenzene (Surr)	*109*		*73 - 120*		*11/09/20 16:12*	*1*
Dibromofluoromethane (Surr)	*117*		*75 - 123*		*11/09/20 16:12*	*1*

Client Sample ID: AZMW-2

Lab Sample ID: 480-177773-7

Date Collected: 11/03/20 14:25

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 16:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 16:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 16:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 16:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 16:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 16:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 16:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 16:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 16:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 16:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 16:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 16:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 16:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 16:35	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 16:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 16:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 16:35	1
Acetone	ND		10	3.0	ug/L			11/09/20 16:35	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 16:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 16:35	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 16:35	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 16:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 16:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 16:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 16:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 16:35	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 16:35	1
Chloroform	ND		1.0	0.34	ug/L			11/09/20 16:35	1
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 16:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 16:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 16:35	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 16:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 16:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 16:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 16:35	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 16:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 16:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 16:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 16:35	1

Client Sample ID: AZMW-2

Lab Sample ID: 480-177773-7

Date Collected: 11/03/20 14:25

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			11/09/20 16:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 16:35	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 16:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 16:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 16:35	1
Trichloroethene	ND		1.0	0.46	ug/L			11/09/20 16:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 16:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 16:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*11/09/20 16:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/09/20 16:35*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*11/09/20 16:35*	*1*
Dibromofluoromethane (Surr)	*112*		*75 - 123*		*11/09/20 16:35*	*1*

Client Sample ID: AZMW-1

Lab Sample ID: 480-177773-8

Date Collected: 11/03/20 15:30

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 16:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 16:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 16:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 16:59	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 16:59	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 16:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 16:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 16:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 16:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 16:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 16:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 16:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 16:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 16:59	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 16:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 16:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 16:59	1
Acetone	ND		10	3.0	ug/L			11/09/20 16:59	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 16:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 16:59	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 16:59	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 16:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 16:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 16:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 16:59	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 16:59	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 16:59	1
Chloroform	**2.6**		1.0	0.34	ug/L			11/09/20 16:59	1

Client Sample ID: AZMW-1

Lab Sample ID: 480-177773-8

Date Collected: 11/03/20 15:30

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 16:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 16:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 16:59	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 16:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 16:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 16:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 16:59	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 16:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 16:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 16:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 16:59	1
Styrene	ND		1.0	0.73	ug/L			11/09/20 16:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 16:59	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 16:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 16:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 16:59	1
Trichloroethene	ND		1.0	0.46	ug/L			11/09/20 16:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 16:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 16:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*		*11/09/20 16:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*11/09/20 16:59*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*11/09/20 16:59*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*11/09/20 16:59*	*1*

Client Sample ID: MW-7

Lab Sample ID: 480-177773-9

Date Collected: 11/04/20 08:45

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 17:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 17:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 17:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 17:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 17:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 17:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 17:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 17:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 17:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 17:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 17:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 17:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 17:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 17:22	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 17:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 17:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 17:22	1

Client Sample ID: MW-7

Lab Sample ID: 480-177773-9

Date Collected: 11/04/20 08:45

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.0	ug/L			11/09/20 17:22	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 17:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 17:22	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 17:22	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 17:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 17:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 17:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 17:22	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 17:22	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 17:22	1
Chloroform	**1.5**		1.0	0.34	ug/L			11/09/20 17:22	1
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 17:22	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.81	ug/L			11/09/20 17:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 17:22	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 17:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 17:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 17:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 17:22	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 17:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 17:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 17:22	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 17:22	1
Styrene	ND		1.0	0.73	ug/L			11/09/20 17:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 17:22	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 17:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 17:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 17:22	1
Trichloroethene	**4.1**		1.0	0.46	ug/L			11/09/20 17:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 17:22	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 17:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*11/09/20 17:22*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*11/09/20 17:22*	*1*
4-Bromofluorobenzene (Surr)	*110*		*73 - 120*		*11/09/20 17:22*	*1*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*11/09/20 17:22*	*1*

Client Sample ID: MW-6

Lab Sample ID: 480-177773-10

Date Collected: 11/04/20 10:25

Matrix: Water

Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 17:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 17:45	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 17:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 17:45	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 17:45	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 17:45	1

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Client Sample ID: MW-6
Lab Sample ID: 480-177773-10
Date Collected: 11/04/20 10:25
Matrix: Water
Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 17:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 17:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 17:45	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 17:45	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 17:45	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 17:45	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 17:45	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 17:45	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 17:45	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 17:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 17:45	1
Acetone	ND		10	3.0	ug/L			11/09/20 17:45	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 17:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 17:45	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 17:45	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 17:45	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 17:45	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 17:45	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 17:45	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 17:45	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 17:45	1
Chloroform	ND		1.0	0.34	ug/L			11/09/20 17:45	1
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 17:45	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 17:45	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 17:45	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 17:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 17:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 17:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 17:45	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 17:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 17:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 17:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 17:45	1
Styrene	ND		1.0	0.73	ug/L			11/09/20 17:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 17:45	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 17:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 17:45	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 17:45	1
Trichloroethene	ND		1.0	0.46	ug/L			11/09/20 17:45	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 17:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 17:45	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*11/09/20 17:45*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*11/09/20 17:45*	*1*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*		*11/09/20 17:45*	*1*
Dibromofluoromethane (Surr)	*119*		*75 - 123*		*11/09/20 17:45*	*1*

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Client Sample ID: FD-1
Lab Sample ID: 480-177773-11
Date Collected: 11/04/20 00:00
Matrix: Water
Date Received: 11/07/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/10/20 15:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/10/20 15:33	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/10/20 15:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/10/20 15:33	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/10/20 15:33	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/10/20 15:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/10/20 15:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/10/20 15:33	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/10/20 15:33	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/10/20 15:33	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/10/20 15:33	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/10/20 15:33	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/10/20 15:33	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/10/20 15:33	1
2-Hexanone	ND		5.0	1.2	ug/L			11/10/20 15:33	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/10/20 15:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/10/20 15:33	1
Acetone	ND		10	3.0	ug/L			11/10/20 15:33	1
Benzene	ND		1.0	0.41	ug/L			11/10/20 15:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/10/20 15:33	1
Bromoform	ND		1.0	0.26	ug/L			11/10/20 15:33	1
Bromomethane	ND		1.0	0.69	ug/L			11/10/20 15:33	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/10/20 15:33	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/10/20 15:33	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/10/20 15:33	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/10/20 15:33	1
Chloroethane	ND		1.0	0.32	ug/L			11/10/20 15:33	1
Chloroform	**0.58**	**J**	1.0	0.34	ug/L			11/10/20 15:33	1
Chloromethane	ND		1.0	0.35	ug/L			11/10/20 15:33	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/10/20 15:33	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/10/20 15:33	1
Cyclohexane	ND		1.0	0.18	ug/L			11/10/20 15:33	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/10/20 15:33	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/10/20 15:33	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/10/20 15:33	1
Methyl acetate	ND		2.5	1.3	ug/L			11/10/20 15:33	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/10/20 15:33	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/10/20 15:33	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/10/20 15:33	1
Styrene	ND		1.0	0.73	ug/L			11/10/20 15:33	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/10/20 15:33	1
Toluene	ND		1.0	0.51	ug/L			11/10/20 15:33	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/10/20 15:33	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/10/20 15:33	1
Trichloroethene	**1.4**		1.0	0.46	ug/L			11/10/20 15:33	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/10/20 15:33	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/10/20 15:33	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/10/20 15:33	1

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Client Sample ID: FD-1
Lab Sample ID: 480-177773-11
Date Collected: 11/04/20 00:00
Matrix: Water
Date Received: 11/07/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		77 - 120		11/10/20 15:33	1
Toluene-d8 (Surr)	97		80 - 120		11/10/20 15:33	1
4-Bromofluorobenzene (Surr)	107		73 - 120		11/10/20 15:33	1
Dibromofluoromethane (Surr)	97		75 - 123		11/10/20 15:33	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Former Ithaca Gun Factory #C755019A

Job ID: 480-177773-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-177773-1	AZMW-7	107	99	106	114
480-177773-2	AZMW-8	102	104	112	113
480-177773-3	AZMW-5	100	102	108	113
480-177773-4	AZMW-6	105	106	108	115
480-177773-5	AZMW-3	102	103	104	113
480-177773-6	AZMW-4	107	106	109	117
480-177773-7	AZMW-2	103	100	108	112
480-177773-8	AZMW-1	100	100	104	118
480-177773-9	MW-7	106	106	110	118
480-177773-9 MS	MW-7	107	103	105	115
480-177773-9 MSD	MW-7	100	105	108	114
480-177773-10	MW-6	110	102	108	119
480-177773-11	FD-1	90	97	107	97
LCS 480-558049/5	Lab Control Sample	98	102	111	112
LCS 480-558260/5	Lab Control Sample	87	98	108	95
MB 480-558049/7	Method Blank	112	105	107	118
MB 480-558260/7	Method Blank	88	98	107	95

Surrogate Legend

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

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

Lab Sample ID: MB 480-558049/7
Matrix: Water
Analysis Batch: 558049

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/09/20 10:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/09/20 10:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/09/20 10:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/09/20 10:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/09/20 10:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/09/20 10:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/09/20 10:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/09/20 10:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/09/20 10:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/09/20 10:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/09/20 10:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/09/20 10:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/09/20 10:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/09/20 10:31	1
2-Hexanone	ND		5.0	1.2	ug/L			11/09/20 10:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/09/20 10:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/09/20 10:31	1
Acetone	ND		10	3.0	ug/L			11/09/20 10:31	1
Benzene	ND		1.0	0.41	ug/L			11/09/20 10:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/09/20 10:31	1
Bromoform	ND		1.0	0.26	ug/L			11/09/20 10:31	1
Bromomethane	ND		1.0	0.69	ug/L			11/09/20 10:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/09/20 10:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/09/20 10:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/09/20 10:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/09/20 10:31	1
Chloroethane	ND		1.0	0.32	ug/L			11/09/20 10:31	1
Chloroform	ND		1.0	0.34	ug/L			11/09/20 10:31	1
Chloromethane	ND		1.0	0.35	ug/L			11/09/20 10:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/09/20 10:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/09/20 10:31	1
Cyclohexane	ND		1.0	0.18	ug/L			11/09/20 10:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/09/20 10:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/09/20 10:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/09/20 10:31	1
Methyl acetate	ND		2.5	1.3	ug/L			11/09/20 10:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/09/20 10:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/09/20 10:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/09/20 10:31	1
Styrene	ND		1.0	0.73	ug/L			11/09/20 10:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/09/20 10:31	1
Toluene	ND		1.0	0.51	ug/L			11/09/20 10:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/09/20 10:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/09/20 10:31	1
Trichloroethene	ND		1.0	0.46	ug/L			11/09/20 10:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/09/20 10:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/09/20 10:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/09/20 10:31	1

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

Lab Sample ID: MB 480-558049/7
Matrix: Water
Analysis Batch: 558049

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		77 - 120		11/09/20 10:31	1
Toluene-d8 (Surr)	105		80 - 120		11/09/20 10:31	1
4-Bromofluorobenzene (Surr)	107		73 - 120		11/09/20 10:31	1
Dibromofluoromethane (Surr)	118		75 - 123		11/09/20 10:31	1

Lab Sample ID: LCS 480-558049/5
Matrix: Water
Analysis Batch: 558049

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	25.7		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.9		ug/L		96	76 - 120
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.0		ug/L		100	61 - 148
1,1-Dichloroethane	25.0	24.0		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	25.4		ug/L		102	66 - 127
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	56 - 134
1,2-Dibromoethane	25.0	24.6		ug/L		98	77 - 120
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	24.2		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	24.8		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	77 - 120
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 120
2-Hexanone	125	112		ug/L		89	65 - 127
2-Butanone (MEK)	125	113		ug/L		91	57 - 140
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	71 - 125
Acetone	125	114		ug/L		91	56 - 142
Benzene	25.0	24.7		ug/L		99	71 - 124
Bromodichloromethane	25.0	23.9		ug/L		96	80 - 122
Bromoform	25.0	26.0		ug/L		104	61 - 132
Bromomethane	25.0	24.2		ug/L		97	55 - 144
Carbon disulfide	25.0	23.3		ug/L		93	59 - 134
Carbon tetrachloride	25.0	25.8		ug/L		103	72 - 134
Chlorobenzene	25.0	25.9		ug/L		104	80 - 120
Dibromochloromethane	25.0	26.4		ug/L		105	75 - 125
Chloroethane	25.0	21.7		ug/L		87	69 - 136
Chloroform	25.0	24.4		ug/L		98	73 - 127
Chloromethane	25.0	21.0		ug/L		84	68 - 124
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	24.3		ug/L		97	74 - 124
Cyclohexane	25.0	24.0		ug/L		96	59 - 135
Dichlorodifluoromethane	25.0	22.7		ug/L		91	59 - 135
Ethylbenzene	25.0	25.0		ug/L		100	77 - 123
Isopropylbenzene	25.0	25.0		ug/L		100	77 - 122
Methyl acetate	50.0	44.9		ug/L		90	74 - 133
Methyl tert-butyl ether	25.0	24.4		ug/L		97	77 - 120
Methylcyclohexane	25.0	24.7		ug/L		99	68 - 134

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

Lab Sample ID: LCS 480-558049/5
Matrix: Water
Analysis Batch: 558049

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	25.0		ug/L		100	75 - 124
Styrene	25.0	25.1		ug/L		100	80 - 120
Tetrachloroethene	25.0	26.5		ug/L		106	74 - 122
Toluene	25.0	25.4		ug/L		102	80 - 122
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	73 - 127
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	80 - 120
Trichloroethene	25.0	25.3		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	27.2		ug/L		109	62 - 150
Vinyl chloride	25.0	22.4		ug/L		90	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*111*		*73 - 120*
Dibromofluoromethane (Surr)	*112*		*75 - 123*

Lab Sample ID: 480-177773-9 MS
Matrix: Water
Analysis Batch: 558049

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	29.9		ug/L		120	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	25.9		ug/L		104	76 - 120
1,1,2-Trichloroethane	ND		25.0	25.9		ug/L		103	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.9		ug/L		108	61 - 148
1,1-Dichloroethane	ND		25.0	28.5		ug/L		114	77 - 120
1,1-Dichloroethene	ND		25.0	29.2		ug/L		117	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	27.5		ug/L		110	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	24.1		ug/L		96	56 - 134
1,2-Dibromoethane	ND		25.0	26.0		ug/L		104	77 - 120
1,2-Dichlorobenzene	ND		25.0	25.7		ug/L		103	80 - 124
1,2-Dichloroethane	ND		25.0	27.6		ug/L		111	75 - 120
1,2-Dichloropropane	ND		25.0	27.3		ug/L		109	76 - 120
1,3-Dichlorobenzene	ND		25.0	26.0		ug/L		104	77 - 120
1,4-Dichlorobenzene	ND		25.0	25.3		ug/L		101	78 - 124
2-Hexanone	ND		125	116		ug/L		93	65 - 127
2-Butanone (MEK)	ND		125	121		ug/L		97	57 - 140
4-Methyl-2-pentanone (MIBK)	ND		125	117		ug/L		93	71 - 125
Acetone	ND		125	113		ug/L		90	56 - 142
Benzene	ND		25.0	28.1		ug/L		112	71 - 124
Bromodichloromethane	ND		25.0	25.8		ug/L		103	80 - 122
Bromoform	ND		25.0	25.7		ug/L		103	61 - 132
Bromomethane	ND		25.0	27.1		ug/L		108	55 - 144
Carbon disulfide	ND		25.0	25.2		ug/L		101	59 - 134
Carbon tetrachloride	ND		25.0	29.1		ug/L		116	72 - 134
Chlorobenzene	ND		25.0	27.8		ug/L		111	80 - 120
Dibromochloromethane	ND		25.0	27.1		ug/L		108	75 - 125
Chloroethane	ND		25.0	24.2		ug/L		97	69 - 136

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

Lab Sample ID: 480-177773-9 MS
Matrix: Water
Analysis Batch: 558049

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	1.5		25.0	29.1		ug/L		110	73 - 127
Chloromethane	ND		25.0	22.6		ug/L		90	68 - 124
cis-1,2-Dichloroethene	1.5		25.0	31.3		ug/L		119	74 - 124
cis-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	74 - 124
Cyclohexane	ND		25.0	25.4		ug/L		102	59 - 135
Dichlorodifluoromethane	ND		25.0	26.3		ug/L		105	59 - 135
Ethylbenzene	ND		25.0	25.9		ug/L		104	77 - 123
Isopropylbenzene	ND		25.0	26.1		ug/L		104	77 - 122
Methyl acetate	ND		50.0	44.9		ug/L		90	74 - 133
Methyl tert-butyl ether	ND		25.0	27.6		ug/L		110	77 - 120
Methylcyclohexane	ND		25.0	25.3		ug/L		101	68 - 134
Methylene Chloride	ND		25.0	27.6		ug/L		110	75 - 124
Styrene	ND		25.0	26.4		ug/L		106	80 - 120
Tetrachloroethene	ND		25.0	28.2		ug/L		113	74 - 122
Toluene	ND		25.0	26.6		ug/L		106	80 - 122
trans-1,2-Dichloroethene	ND		25.0	29.4		ug/L		118	73 - 127
trans-1,3-Dichloropropene	ND		25.0	24.9		ug/L		100	80 - 120
Trichloroethene	4.1		25.0	32.6		ug/L		114	74 - 123
Trichlorofluoromethane	ND		25.0	30.3		ug/L		121	62 - 150
Vinyl chloride	ND		25.0	24.5		ug/L		98	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*103*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*
Dibromofluoromethane (Surr)	*115*		*75 - 123*

Lab Sample ID: 480-177773-9 MSD
Matrix: Water
Analysis Batch: 558049

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	28.6		ug/L		115	73 - 126	4	15
1,1,2,2-Tetrachloroethane	ND		25.0	25.9		ug/L		104	76 - 120	0	15
1,1,2-Trichloroethane	ND		25.0	28.2		ug/L		113	76 - 122	9	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	26.7		ug/L		107	61 - 148	1	20
1,1-Dichloroethane	ND		25.0	27.3		ug/L		109	77 - 120	4	20
1,1-Dichloroethene	ND		25.0	29.7		ug/L		119	66 - 127	2	16
1,2,4-Trichlorobenzene	ND		25.0	26.6		ug/L		107	79 - 122	3	20
1,2-Dibromo-3-Chloropropane	ND		25.0	25.1		ug/L		100	56 - 134	4	15
1,2-Dibromoethane	ND		25.0	27.2		ug/L		109	77 - 120	5	15
1,2-Dichlorobenzene	ND		25.0	24.8		ug/L		99	80 - 124	3	20
1,2-Dichloroethane	ND		25.0	28.2		ug/L		113	75 - 120	2	20
1,2-Dichloropropane	ND		25.0	27.0		ug/L		108	76 - 120	1	20
1,3-Dichlorobenzene	ND		25.0	25.1		ug/L		101	77 - 120	3	20
1,4-Dichlorobenzene	ND		25.0	24.9		ug/L		100	78 - 124	2	20
2-Hexanone	ND		125	130		ug/L		104	65 - 127	12	15
2-Butanone (MEK)	ND		125	128		ug/L		102	57 - 140	5	20

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

Lab Sample ID: 480-177773-9 MSD
Client Sample ID: MW-7
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 558049

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Methyl-2-pentanone (MIBK)	ND		125	131		ug/L		104	71 - 125	11	35
Acetone	ND		125	122		ug/L		97	56 - 142	8	15
Benzene	ND		25.0	27.1		ug/L		109	71 - 124	3	13
Bromodichloromethane	ND		25.0	26.3		ug/L		105	80 - 122	2	15
Bromoform	ND		25.0	27.1		ug/L		109	61 - 132	5	15
Bromomethane	ND		25.0	24.3		ug/L		97	55 - 144	11	15
Carbon disulfide	ND		25.0	24.2		ug/L		97	59 - 134	4	15
Carbon tetrachloride	ND		25.0	28.3		ug/L		113	72 - 134	3	15
Chlorobenzene	ND		25.0	28.0		ug/L		112	80 - 120	1	25
Dibromochloromethane	ND		25.0	28.3		ug/L		113	75 - 125	4	15
Chloroethane	ND		25.0	23.2		ug/L		93	69 - 136	4	15
Chloroform	1.5		25.0	28.5		ug/L		108	73 - 127	2	20
Chloromethane	ND		25.0	23.4		ug/L		94	68 - 124	4	15
cis-1,2-Dichloroethene	1.5		25.0	29.5		ug/L		112	74 - 124	6	15
cis-1,3-Dichloropropene	ND		25.0	25.1		ug/L		101	74 - 124	1	15
Cyclohexane	ND		25.0	24.3		ug/L		97	59 - 135	5	20
Dichlorodifluoromethane	ND		25.0	24.2		ug/L		97	59 - 135	8	20
Ethylbenzene	ND		25.0	25.7		ug/L		103	77 - 123	1	15
Isopropylbenzene	ND		25.0	25.0		ug/L		100	77 - 122	4	20
Methyl acetate	ND		50.0	50.1		ug/L		100	74 - 133	11	20
Methyl tert-butyl ether	ND		25.0	27.9		ug/L		112	77 - 120	1	37
Methylcyclohexane	ND		25.0	25.7		ug/L		103	68 - 134	1	20
Methylene Chloride	ND		25.0	27.4		ug/L		109	75 - 124	1	15
Styrene	ND		25.0	27.2		ug/L		109	80 - 120	3	20
Tetrachloroethene	ND		25.0	28.4		ug/L		114	74 - 122	1	20
Toluene	ND		25.0	27.4		ug/L		110	80 - 122	3	15
trans-1,2-Dichloroethene	ND		25.0	29.3		ug/L		117	73 - 127	0	20
trans-1,3-Dichloropropene	ND		25.0	26.3		ug/L		105	80 - 120	6	15
Trichloroethene	4.1		25.0	30.7		ug/L		106	74 - 123	6	16
Trichlorofluoromethane	ND		25.0	29.3		ug/L		117	62 - 150	3	20
Vinyl chloride	ND		25.0	24.7		ug/L		99	65 - 133	1	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*105*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*114*		*75 - 123*

Lab Sample ID: MB 480-558260/7
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 558260

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/10/20 11:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/10/20 11:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/10/20 11:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/10/20 11:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/10/20 11:07	1

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

Lab Sample ID: MB 480-558260/7
Matrix: Water
Analysis Batch: 558260

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/10/20 11:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/10/20 11:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/10/20 11:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/10/20 11:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/10/20 11:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/10/20 11:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/10/20 11:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/10/20 11:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/10/20 11:07	1
2-Hexanone	ND		5.0	1.2	ug/L			11/10/20 11:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/10/20 11:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/10/20 11:07	1
Acetone	ND		10	3.0	ug/L			11/10/20 11:07	1
Benzene	ND		1.0	0.41	ug/L			11/10/20 11:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/10/20 11:07	1
Bromoform	ND		1.0	0.26	ug/L			11/10/20 11:07	1
Bromomethane	ND		1.0	0.69	ug/L			11/10/20 11:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/10/20 11:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/10/20 11:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/10/20 11:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/10/20 11:07	1
Chloroethane	ND		1.0	0.32	ug/L			11/10/20 11:07	1
Chloroform	ND		1.0	0.34	ug/L			11/10/20 11:07	1
Chloromethane	ND		1.0	0.35	ug/L			11/10/20 11:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/10/20 11:07	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/10/20 11:07	1
Cyclohexane	ND		1.0	0.18	ug/L			11/10/20 11:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/10/20 11:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/10/20 11:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/10/20 11:07	1
Methyl acetate	ND		2.5	1.3	ug/L			11/10/20 11:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/10/20 11:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/10/20 11:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/10/20 11:07	1
Styrene	ND		1.0	0.73	ug/L			11/10/20 11:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/10/20 11:07	1
Toluene	ND		1.0	0.51	ug/L			11/10/20 11:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/10/20 11:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/10/20 11:07	1
Trichloroethene	ND		1.0	0.46	ug/L			11/10/20 11:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/10/20 11:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/10/20 11:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/10/20 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*77 - 120*		*11/10/20 11:07*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/10/20 11:07*	*1*
4-Bromofluorobenzene (Surr)	*107*		*73 - 120*		*11/10/20 11:07*	*1*

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

Lab Sample ID: MB 480-558260/7
Matrix: Water
Analysis Batch: 558260

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*95*		*75 - 123*		*11/10/20 11:07*	*1*

Lab Sample ID: LCS 480-558260/5
Matrix: Water
Analysis Batch: 558260

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.0		ug/L		88	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		97	76 - 120
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.2		ug/L		101	61 - 148
1,1-Dichloroethane	25.0	22.1		ug/L		88	77 - 120
1,1-Dichloroethene	25.0	24.7		ug/L		99	66 - 127
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	24.1		ug/L		97	56 - 134
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
1,2-Dichlorobenzene	25.0	23.9		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	19.6		ug/L		79	75 - 120
1,2-Dichloropropane	25.0	23.7		ug/L		95	76 - 120
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	23.4		ug/L		94	80 - 120
2-Hexanone	125	110		ug/L		88	65 - 127
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		87	71 - 125
Acetone	125	106		ug/L		85	56 - 142
Benzene	25.0	23.7		ug/L		95	71 - 124
Bromodichloromethane	25.0	24.1		ug/L		97	80 - 122
Bromoform	25.0	28.9		ug/L		116	61 - 132
Bromomethane	25.0	25.8		ug/L		103	55 - 144
Carbon disulfide	25.0	24.6		ug/L		98	59 - 134
Carbon tetrachloride	25.0	21.7		ug/L		87	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	80 - 120
Dibromochloromethane	25.0	26.0		ug/L		104	75 - 125
Chloroethane	25.0	17.6		ug/L		70	69 - 136
Chloroform	25.0	21.7		ug/L		87	73 - 127
Chloromethane	25.0	19.2		ug/L		77	68 - 124
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	74 - 124
Cyclohexane	25.0	21.9		ug/L		88	59 - 135
Dichlorodifluoromethane	25.0	23.2		ug/L		93	59 - 135
Ethylbenzene	25.0	23.4		ug/L		94	77 - 123
Isopropylbenzene	25.0	22.2		ug/L		89	77 - 122
Methyl acetate	50.0	44.2		ug/L		88	74 - 133
Methyl tert-butyl ether	25.0	24.2		ug/L		97	77 - 120
Methylcyclohexane	25.0	23.4		ug/L		94	68 - 134
Methylene Chloride	25.0	24.9		ug/L		100	75 - 124
Styrene	25.0	24.1		ug/L		97	80 - 120
Tetrachloroethene	25.0	25.0		ug/L		100	74 - 122

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

Lab Sample ID: LCS 480-558260/5
Matrix: Water
Analysis Batch: 558260

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	23.8		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	73 - 127
trans-1,3-Dichloropropene	25.0	24.5		ug/L		98	80 - 120
Trichloroethene	25.0	23.5		ug/L		94	74 - 123
Trichlorofluoromethane	25.0	22.3		ug/L		89	62 - 150
Vinyl chloride	25.0	20.0		ug/L		80	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*
4-Bromofluorobenzene (Surr)	*108*		*73 - 120*
Dibromofluoromethane (Surr)	*95*		*75 - 123*

QC Association Summary

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

GC/MS VOA

Analysis Batch: 558049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177773-1	AZMW-7	Total/NA	Water	8260C	
480-177773-2	AZMW-8	Total/NA	Water	8260C	
480-177773-3	AZMW-5	Total/NA	Water	8260C	
480-177773-4	AZMW-6	Total/NA	Water	8260C	
480-177773-5	AZMW-3	Total/NA	Water	8260C	
480-177773-6	AZMW-4	Total/NA	Water	8260C	
480-177773-7	AZMW-2	Total/NA	Water	8260C	
480-177773-8	AZMW-1	Total/NA	Water	8260C	
480-177773-9	MW-7	Total/NA	Water	8260C	
480-177773-10	MW-6	Total/NA	Water	8260C	
MB 480-558049/7	Method Blank	Total/NA	Water	8260C	
LCS 480-558049/5	Lab Control Sample	Total/NA	Water	8260C	
480-177773-9 MS	MW-7	Total/NA	Water	8260C	
480-177773-9 MSD	MW-7	Total/NA	Water	8260C	

Analysis Batch: 558260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177773-11	FD-1	Total/NA	Water	8260C	
MB 480-558260/7	Method Blank	Total/NA	Water	8260C	
LCS 480-558260/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Client Sample ID: AZMW-7
Lab Sample ID: 480-177773-1
Date Collected: 11/02/20 13:20
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 14:17	AMM	TAL BUF

Client Sample ID: AZMW-8
Lab Sample ID: 480-177773-2
Date Collected: 11/02/20 14:15
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 14:40	AMM	TAL BUF

Client Sample ID: AZMW-5
Lab Sample ID: 480-177773-3
Date Collected: 11/02/20 15:25
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 15:03	AMM	TAL BUF

Client Sample ID: AZMW-6
Lab Sample ID: 480-177773-4
Date Collected: 11/03/20 08:45
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 15:26	AMM	TAL BUF

Client Sample ID: AZMW-3
Lab Sample ID: 480-177773-5
Date Collected: 11/03/20 11:35
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 15:49	AMM	TAL BUF

Client Sample ID: AZMW-4
Lab Sample ID: 480-177773-6
Date Collected: 11/03/20 13:25
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 16:12	AMM	TAL BUF

Client Sample ID: AZMW-2
Lab Sample ID: 480-177773-7
Date Collected: 11/03/20 14:25
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 16:35	AMM	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Client Sample ID: AZMW-1
Lab Sample ID: 480-177773-8
Date Collected: 11/03/20 15:30
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 16:59	AMM	TAL BUF

Client Sample ID: MW-7
Lab Sample ID: 480-177773-9
Date Collected: 11/04/20 08:45
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 17:22	AMM	TAL BUF

Client Sample ID: MW-6
Lab Sample ID: 480-177773-10
Date Collected: 11/04/20 10:25
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558049	11/09/20 17:45	AMM	TAL BUF

Client Sample ID: FD-1
Lab Sample ID: 480-177773-11
Date Collected: 11/04/20 00:00
Matrix: Water
Date Received: 11/07/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	558260	11/10/20 15:33	WJD	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Method Summary

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: New York State D.E.C.
Job ID: 480-177773-1
Project/Site: Former Ithaca Gun Factory #C755019A

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-177773-1	AZMW-7	Water	11/02/20 13:20	11/07/20 08:00	
480-177773-2	AZMW-8	Water	11/02/20 14:15	11/07/20 08:00	
480-177773-3	AZMW-5	Water	11/02/20 15:25	11/07/20 08:00	
480-177773-4	AZMW-6	Water	11/03/20 08:45	11/07/20 08:00	
480-177773-5	AZMW-3	Water	11/03/20 11:35	11/07/20 08:00	
480-177773-6	AZMW-4	Water	11/03/20 13:25	11/07/20 08:00	
480-177773-7	AZMW-2	Water	11/03/20 14:25	11/07/20 08:00	
480-177773-8	AZMW-1	Water	11/03/20 15:30	11/07/20 08:00	
480-177773-9	MW-7	Water	11/04/20 08:45	11/07/20 08:00	
480-177773-10	MW-6	Water	11/04/20 10:25	11/07/20 08:00	
480-177773-11	FD-1	Water	11/04/20 00:00	11/07/20 08:00	

Eurofins TestAmerica, Buffalo Albany #224
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Tom Giamichael	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-152590-33929.1
Client Contact: Tom Giamichael	Phone: 518-337-7635	E-Mail: Judy.Stone@Eurofinset.com		Page: Page 1 of 2
Company: Aztech Technologies Inc		Analysis Requested		Job #:
Address: 5 McCrea Hill Road	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, M - Hexane, N - None, AsNaO2, Na2O4S, Na2SO3, Na2S2O3, H2SO4, TSP Dodecahydrate, Acetone, MCAA, pH 4-5, other (specify)
City: Ballston Spa	TAT Requested (days):			
State, Zip: NY, 12020				
Phone:	PO #: CallOut ID: 137329			
Email: tgiamichael@aztechenv.com	WO #:			
Project Name: Former Ithaca Gun Factory #C755019A	Project #: 48020705			
Site:	SSOW#:			Other:

480-177773 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOAs	Total Number of containers	Special Instructions/Note.
				Preservation Code:			A		
AZMW-7	11/2/20	13:20	G	Water			X	3	
AZMW-8	↓	14:15		Water			X		
AZMW-5		15:25		Water			X		
AZMW-6	11/3/20	08:45		Water			X		
AZMW-3		11:35		Water			X		
AZMW-4		13:25		Water			X		
AZMW-2		14:25		Water			X		
AZMW-1	↓	15:30		Water			X		
MW-7	11/4/20	8:45		Water			X		
MW-7 MS		8:45		Water		Y	X		Matrix Spike
MW-7 MSD	↓	8:45	↓	Water		Y	X	↓	Matrix Spike Dupe

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 11/5/20 08:00	Company: Aztech	Received by: [signature]	Date/Time: 11/6/20 0650	Company: Eurofins
Relinquished by: [signature]	Date/Time: 11/6/20 1700	Company: Eurofins	Received by: [signature]	Date/Time: 11/7/20 0800	Company: TAB
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 2.2

Ver: 01/16/2019

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

Albany #224

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-152590-33929.2
Client Contact: Tom Giamichael	Phone:	E-Mail: Judy.Stone@Eurofinset.com		Page: Page 2 of 2
Company: Aztech Technologies Inc				Job #:
Address: 5 McCrea Hill Road	Due Date Requested:			
City: Ballston Spa	TAT Requested (days):			
State, Zip: NY, 12020				
Phone:	PO #: CallOut ID: 137329			
Email: tgiamichael@aztechenv.com	WO #:			
Project Name: Former Ithaca Gun Factory #C755019A	Project #: 48020705			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

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

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOAs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
MW-6	11/4/20	10:25	G	Water			X		
FD-1	—	—	—	Water			X		Field Dupe
				Water					

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Tom's Giamichael	11/5/20 0840	Aztech	Karl Fodor	11/6/20 0650	Eurofins
2	Karl Fodor	11/4/20 1200	Eurofins			
3						

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

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-177773-1

Login Number: 177773

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ATTACHMENT - 3

Data Usability Summary Report (DUSR)