C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.

50 Century Hill Drive, Latham, NY 12110
518.786.7400 FAX 518.786.7299 www.ctmale.com

October 15, 2020

Ms. Brianna Scharf
Remedial Section C, Remedial Bureau E
Division of Environmental Remediation
NYSDEC Central Office
625 Broadway
Albany, New York 12233-7017

Re: 2020 Groundwater Monitoring and Periodic Review Report
Schuyler Heights Fire District Station House Site (NYSDEC Site Number E401050)
Town of Colonie, Albany County, New York
Reporting Period: December 7, 2018 to April 7, 2020
C.T. Male Project No. 20.0319

Dear Ms. Scharf:

On behalf of the Schuyler Heights Fire District, C.T. Male Associates Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C. (C.T. Male) presents the 2020 Groundwater Monitoring and Periodic Review Report for the Schuyler Heights Fire District Station House Site in Colonie, New York in accordance with the NYSDEC approved Site Management Plan (SMP) dated October 2018, as prepared by NYSDEC's consultant ARCADIS. C.T. Male conducted a site-wide inspection visit on April 29, 2020 and completed a groundwater sampling event of the select wells identified in the SMP over two (2) days on May 14 and 15, 2020.

It should be noted that the October 2018 SMP requires stormwater sampling as part of the site monitoring plan. During the site visits for the site inspection and for the groundwater sampling, the swale that is designated as the sampling point was dry. Furthermore, this swale does not appear to have any stormwater traverse/collect in it as it is well vegetated with grass and shows no evidence of regular stormwater flow.

Groundwater Sampling Event - General

A groundwater monitoring event was conducted on May 14 and 15, 2020. In accordance with the SMP Monitoring and Sampling Plan, monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7 were sampled for 1,4-Dioxane by USEPA Method 8270 SIM, perfluoroalkyl substances (PFAS) for linear and non-linear branch isomers by USEPA EPA Method 537.1 following isotopic dilution techniques, and Target Analyte List (TAL) metals by USEPA Method 6010B.

C.T. Male did not have keys to the locks that were on the monitoring wells at the start of sampling. Therefore, the existing locks were cut off and replaced with new ones.

The groundwater samples were collected using low flow sampling techniques with a peristaltic pump and new high-density polyethylene tubing at each well. The volume of groundwater purged from each well was dependent on the stabilization of field parameters. The wells were sampled after three (3) consecutive readings whereby the pH, specific conductance, oxidation-reduction potential, dissolved oxygen and turbidity met the criteria listed in Section 3.3.2.1 of the SMP.

Monitoring Well Inspection

The monitoring wells were inspected and screened on May 14th for organic vapors at the time of the water level measurements and prior to any sampling. The well screening was performed with a MiniRAE-3000 Photoionization Detection (PID) calibrated prior to use against 100 parts per million (ppm) isobutylene gas. The water levels were measured and recorded from all of the monitoring wells on the site within an hour. The measurements and PID screening results are listed below in Table 1.

Table 1

Well ID	Depth to Water (feet below TPVC)	Top of Casing Elev. (feet)	Water Elev. (feet)	PID Reading (ppm) *
MW-1	8.33	42.2 **	33.87	0.0
MW-2	11.32	46	34.68	0.2
MW-3	13.97	48.75	34.78	0.0
MW-4	13.72	49.0 **	35.28	0.2
MW-5	15.63	49.5	33.87	0.2
MW-6	14.71	51.0	36.29	0.1
MW-7	13.93	51.0	37.07	0.2

Notes:
* reading above background
** denotes that the PVC casing was damaged, and the accuracy of the top of PVC and water elevation are potentially affected.

As shown in Table 1, the PID readings were nearly zero and indicative of background levels of organic vapors, if any. The monitoring wells and their protective casing were in good condition except for monitoring wells MW-1 and MW-4, as explained below.

- The PVC casing at monitoring well MW-1 was found to be broken off near the ground surface and inaccessible to the water level meter and tubing. C.T. Male

removed the steel protective cover that was still affixed with its concrete base, installed a PVC slip coupling to reconnect the PVC casing to the below grade portion of the well, and reset the cover (and concrete base) back in the stone surface. This well is completely functional after this repair although the top of casing elevation has the potential to be slightly different from what is listed in the SMP.

- The PVC casing at monitoring well MW-4 was noted to be bent/broken at about the elevation of the surrounding ground surface. Due to the bend in the PVC, a water level meter could not be lowered into the well. C.T. Male surmises that the PVC may have been bent during the grading activities of the remedial action. C.T. Male installed a slip coupling to reattach the PVC riser pipe and was able slightly reduce the bend enough that sampling tubing could be inserted into the well but not enough to accommodate a water level meter. The static water level was determined by slowly lowering the sampling tubing until it reached the groundwater surface and then measuring the length of tubing used, so the water level recorded may be inaccurate. The SMP required monitoring of the water level during purging to gauge for stabilization was also estimated using the tubing as the measuring device.

Utilizing the water levels collected at the wells and the top of PVC well casing elevations documented by others in the SMP, a groundwater contour map was generated to infer the groundwater flow direction. See Figure 1 (Attachment A) Groundwater Contour Map (5/14/20) where the ARCADIS map was used as a base map. The inferred groundwater flow direction at the time of sampling was south and southeastward.

The field parameters collected during the monitoring well purging and sampling were recorded on Well Low-Flow Purging Logs which are included in Attachment B. Most of the monitoring wells remained at or near 100% of their static water level throughout purging except for monitoring well MW-5, which went dry after removal of one well volume. Monitoring well MW-5 recovered to 90% of the static water level prior to collecting the laboratory samples. After collecting the sample volume for 1,4-dioxane and metals the well went dry again. Therefore, the PFAS samples were collected the following day after the well had recovered again. Quality control samples were also collected consisting of Lab Trip Blank; Field Trip Blank; Matrix Spike/Matrix Spike Duplicate at MW-7; and a Field Duplicate from MW-6. The groundwater samples were delivered to Alpha Analytical under proper Chain of Custody protocols.

Groundwater Sampling Event – Laboratory Results

The laboratory reports (Alpha ID Nos. L2020210 & L2020229) for the groundwater samples are presented in Attachment C. Report L2020210 presents the 1,4-dioxane and total/dissolved metal results and L2020229 presents the PFAS results. Summary tables of the analytical results were prepared and are included in Attachment D. The summary tables only include those parameters that were detected above the limit of laboratory detection.

1,4-Dioxane was detected above the limit of laboratory detection at three (3) of the seven (7) monitoring wells sampled. Monitoring wells MW-2, MW-6 and MW-7 had concentrations of 1.06 ug/l, 0.152 ug/l and 0.202 ug/l, respectively. There is no Ambient Water Quality Standard (AWQS) set forth in TOGS 1.1.1 for 1,4-Dioxane, but the New York State Department of Health has set a Maximum Contaminant Level (MCL) as of July 30, 2020 of 1.0 ug/l. Monitoring well MW-2 is the only well to exceed this MCL. This monitoring well is close to the northern property, and based on the inferred groundwater flow direction, would be the most upgradient well with respect to the wells installed on the Schuyler Heights Fire District property.

Several metals were detected above the limit of laboratory detection, some of which are commonly detected in the environment and not necessarily indicators of site contaminants. Listed below in Table 1 are those metals that had at least one detection above its TOGS 1.1.1 AWQS.

Table 1 – 2020 Summary of Metal Results

Metal	Concentration Range (ug/l)	AWQS (ug/l)	Frequency of SCG Exceedance
Antimony	0.46 to 3.54	3	1 of 7
Arsenic	0.21 to 49.39	25	1 of 7
Copper	0.92 to 1,567	300	1 of 7
Iron	89.9 to 61,200	300	4 of 7
Lead	0.73 to 147.7	25	1 of 7
Magnesium	19,600 to 45,200	35,000	2 of 7
Manganese	587.6 to 9,016	300	7 of 7
Mercury	0.2 to 54.49	0.7	1 of 7
Nickel	1.88 to 2,245	100	1 of 7
Sodium	12,200 to 112,000	20,000	5 of 7

The last time the monitoring wells were sampled was in 2006 when the Remedial Investigation was completed. As shown in Table 2 below, aluminum, antimony, iron,

magnesium, manganese and sodium were detected above their AWQS in 2006 at one or more locations. For ease of comparison to the most recent results, the concentration of metals from the 2006 sampling event are included in the summary table in Attachment D. Comparing the results from 2020 to those from 2006 show that aluminum was no longer detected above its AWQS at MW-1, and arsenic, copper, lead, mercury and nickel were newly detected above their AWQS in 2020 at monitoring well MW-5.

Table 2 – 2016 Summary of Metal Results			
Metal	**Concentration Range (ug/l)**	**AWQS (ug/l)**	**Frequency of SCG Exceedance**
Aluminum	42.2 to 885	100	1 of 7
Antimony	18.6	3	1 of 7
Iron	2,740 to 10,500	300	1 of 7
Magnesium	15,300 to 38,400	35,000	2 of 7
Manganese	32.6 to 1,880	300	7 of 7
Sodium	24,200 to 92,800	20,000	5 of 7

Since the turbidity of the groundwater sample collected from monitoring well MW-5 was greater than 50 NTUs, additional groundwater sample volume was collected for dissolved metals analysis. Iron, manganese and sodium were the only metals detected above their AWQS in the dissolved metals sample. Arsenic, copper, lead, mercury and nickel which were detected in monitoring well MW5 on a total basis above their AWQS, but not in the dissolved metals sample, suggests that those total metals concentrations were due to the suspended soil particles rather than being present in groundwater.

The groundwater samples were also analyzed for perfluoroalkyl substances (PFAS) for linear and non-linear branch isomers by USEPA EPA Method 537.1 following isotopic dilution techniques. As shown in the summary table in Attachment D, there were several PFAS compounds detected above the limit of laboratory detection. Most notably, perfluorooctanoic acid (PFOA) was detected above EPA's lifetime health advisory of 70 parts per trillion (ppt) for long-term exposure to PFOA/PFOS in drinking water at monitoring wells MW-2, MW-4, MW-6 and MW-7; and perfluorooctanesulfonic acid (PFOS) was detected above EPA's lifetime health advisory of 70 ppt for long-term exposure to PFOA/PFOS in drinking water at monitoring wells MW-5, MW-6 and MW-7. PFOA and PFOS are the only two compounds that have an associated health advisory. It is noted that there is no drinking water use at the site, so the applicability of this standard is questionable. Based on the inferred groundwater flow direction, monitoring wells MW-4, MW-6 and MW-7 would be the most upgradient locations with respect to the wells installed on the Site, so it is not clear whether these detections are site related.

Annual Monitoring of the Surface Cover System

The remedial action for the site included the installation of a separation fabric between existing site soils and imported soil serving as a surface cover system, the limits of which are shown in the April 2018 Figure 3 presented within the October 2018 SMP. Within the northern and central portions of the Site, the surface cover system reportedly consists of common fill overlain by a layer of topsoil. In the south region of the Site, the cover system consists of gravel. On April 29, 2020, this site was traversed on foot to observe the condition and adequacy of the site's surface cover system.

A visual inspection of the surface cover system was conducted by a NYS licensed professional engineer in accordance with the requirements of the October 2018 SMP. The purpose of the visual inspection was to identify any changes, such as damage or erosion to the surficial media that could compromise the functionality of the surface cover system. The condition of the surface cover system was documented using the Cover Inspection Form from the SMP. A copy of the completed form is included as Attachment E.

There were no significant un-vegetated areas, erosion, animal burrows, or other surface disturbances observed. Photographs taken during the site visit are presented in Attachment F.

Evaluate Remedy Performance, Effectiveness and Protectiveness

The implemented remedy appears to be achieving the remedial goals for the site. The existing surface cover continues to provide protection of human health and the environment from the underlying soils.

IC/EC Plan Compliance

The applicable IC/EC's for the site are still applicable and required for the site. No action or changes are required for the IC/EC's. The EC's continue to perform as designed.

Operation & Maintenance Plan Compliance

The Site remedy does not rely on any mechanical systems, such as groundwater treatment systems, sub-slab depressurization systems or air sparge/soil vapor

extraction systems to protect public health and the environment. Therefore, the operation and maintenance of such components is not required at this time.

Overall Conclusions and Recommendations

The following conclusions and recommendations relative to compliance with the SMP are provided:

1. Groundwater Use Restriction: Requirements were met during the reporting period.
2. Land Use Restriction: Requirements were met during the reporting period.
3. Site Management Plan: Requirements were met during the reporting period.
4. Monitoring Plan: Requirements were met during the reporting period.
5. IC/EC Plan: Requirements were met during the reporting period.
6. Surface Cover System: Requirements were met during the reporting period.
7. Based on C.T. Male's evaluation of the components of the SMP, the remedy is achieving the remedial objectives for the site.
8. The frequency of the submittal of the PRR should not be changed at this time.
9. Site management shall be continued.

Certifications

The Institutional and Engineering Controls (IC/EC) Certification Form is provided as Attachment G. In addition, I also certify that all of the following statements are true:

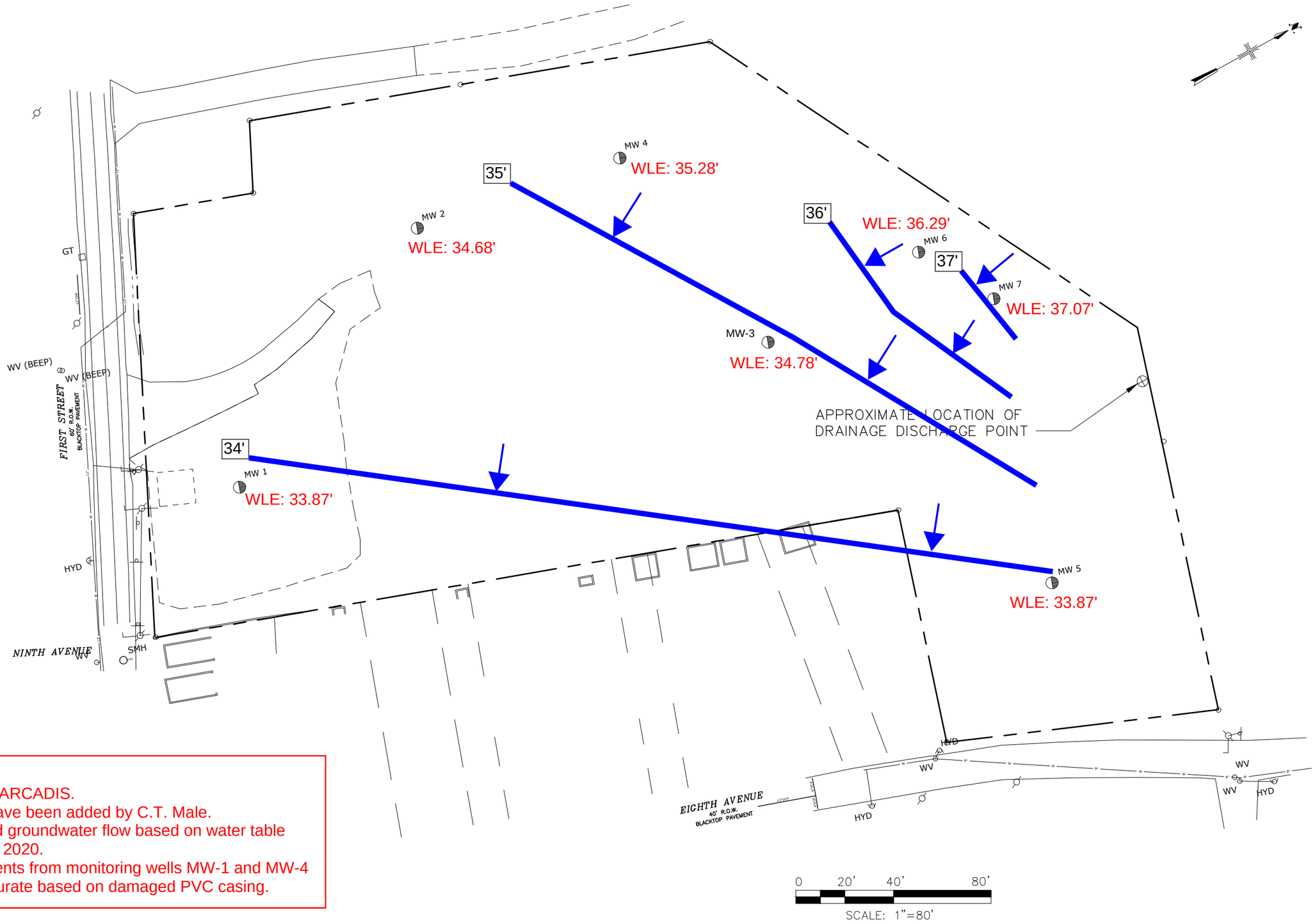
- The institutional control and/or engineering control employed at this Site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;

- Nothing has occurred that would constitute a violation or failure to comply with any SMP for this control;
- Access to the Site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the Site is compliant with the environmental easement;
- The information presented in this report is accurate and complete.
- No new information, including groundwater monitoring data from the wells located at the site, indicate that the assumptions made in the qualitative exposure assessment of off-site contamination are no longer valid.
- I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Jeffrey A. Marx, P.E., of C.T. Male Associates located at 50 Century Hill Drive, Latham, New York, am certifying that I have been authorized and designated by the site owner to sign this certification for the Site.

Respectfully Submitted,
C.T. MALE ASSOCIATES

Jeffrey A. Marx, P.E.
Project Manager/ Sr. Environmental Engineer

Att.	Attachment A:	Groundwater Contour Map
	Attachment B:	Well Low-Flow Purging Logs
	Attachment C:	Alpha Lab Reports (L2020210 & L2020229)
	Attachment D:	Analytical Summary Tables
	Attachment E:	Cover Inspection Form
	Attachment F:	Site Photographs
	Attachment G:	IC/EC Certification Form



Notes
1.) Base Map prepared by ARCADIS.
2.) Items in blue and red have been added by C.T. Male.
3.) Contours depict inferred groundwater flow based on water table measurements on May 14, 2020.
4.) Water table measurements from monitoring wells MW-1 and MW-4 are suspected to be in accurate based on damaged PVC casing.

ARCADIS

SCHUYLER HEIGHTS FIRE DISTRICT STATION HOUSE SITE
NYSDEC SITE NO. E401050
TOWN OF COLONIE, ALBANY COUNTY, NEW YORK

MONITORING WELL LOCATIONS

APRIL 2018

FIGURE 5

WELL LOW-FLOW PURGING LOG

Sampling Activity (check all that apply):

☐ Initial / 3 Vol. ☒ Low-Flow ☒ Sample

DATE: 5/14/20 PROJECT NAME: Schuyler Heights Fire District

PROJECT NO.: 20.0319 PROJECT LOCATION: Waterlict, NY

SAMPLING PERSONNEL: K. Cieter

NOTES TAKEN BY: KC NOTES CHECKED BY: _____

MONITORING WELL ID#: MW5 WELL CASING DIAMETER: 1.25 in.

DEPTH TO WATER (ft): 15.63 FROM: TPVC

DEPTH TO BOTTOM (ft): 18.14 FROM: TPVC

WATER COLUMN HEIGHT: 2.51 ft

WELL VOLUME: 0.16 GALLONS

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GAL/LF 3" = 0.38 GAL/LF

1.25" = ~~0.064 GAL/LF~~ 4" = 0.66 GAL/LF

2" = 0.16 GAL/LF 6" = 1.47 GAL/LF

Field Parameters	Stabilization	Time (since start of purging)										
Time (minutes)	-	Initial	5	7								
Water Level (ft)	± 0.00	15.63	18.14	dry								
Temperature (C)	± 3%	11.6	11.8									
DO (mg/L)	±10%	1.39	1.21									
Conductivity (uS)	± 3%	915	918									
pH (SU)	± 0.1	6.21	6.23									
ORP (mV)	±10 mV	16.7	39.5									
Turbidity (NTU)	±10%	54.01	56.07									

Field Parameters	Time (since start of purging)											
Time (minutes)												
Water Level (ft)												
Temperature (C)												
DO (mg/L)												
Conductivity (uS)												
pH (SU)												
ORP (mV)												
Turbidity (NTU)												

VOLUMES PURGED: ~0.16 GALLONS AVG PURGE RATE: ~120mL/min

TIME STARTED: 1000 TIME FINISHED: 1005

OBSERVATIONS: COLOR blackish/clear ODOR none

SHEEN None OTHER —

WATER LEVEL AT 90% RECOV.: 15.88 ~~15.63~~ KC ft WATER RECOVERY HEIGHT: 15.79 ft

SAMPLE COLLECTION TIME: 5/14 → 1620 1,4 dioxane/metals RECOVERY TIME IN MINUTES: ~225

5/15 → 720 PFAS

NOTES: turbidity 750 NTU so filter used on metals bottle a second

Sampled for: 1,4 Dioxane, PFAS, metals

EQUIPMENT: (PERISTALTIC PUMP) NEW DISPOSABLE BAILER STAINLESS STEEL BAILER

BLADDER PUMP SUBMERSIBLE PUMP OTHER

SERIAL NOs: FA02191

Created On: 3/15/2018 Revised On: 4/1/2019

WELL LOW-FLOW PURGING LOG

Sampling Activity (check all that apply):

☐ Initial / 3 Vol. ☒ Low-Flow ☒ Sample

DATE: 5/14/20
PROJECT NO.: 20.0319
SAMPLING PERSONNEL: K. Cutler
NOTES TAKEN BY: KC
MONITORING WELL ID#: MW 7
DEPTH TO WATER (ft): 13.93 FROM: TPVC
DEPTH TO BOTTOM (ft): 20.49 FROM: TPVC
WATER COLUMN HEIGHT: 6.56 ft
WELL VOLUME: 0.42 GALLONS

PROJECT NAME: Schuyler Heights Fire District
PROJECT LOCATION: Watervliet, NY
NOTES CHECKED BY:
WELL CASING DIAMETER: 1.25 in.

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GAL/LF | 3" = 0.38 GAL/LF
1.25" = 0.064 GAL/LF | 4" = 0.66 GAL/LF
2" = 0.16 GAL/LF | 6" = 1.47 GAL/LF

Field Parameters	Stabilization	Time (since start of purging)										
Time (minutes)	-	Initial	5	10	15	20	25	30	35	40		
Water Level (ft)	± 0.00	13.93	13.98	14.02	14.02	14.02	14.02	14.02	14.02	14.02		
Temperature (C)	± 3%	11.0	10.9	10.6	10.9	11.0	10.9	10.9	11.0	11.0		
DO (mg/L)	±10%	1.03	0.71	0.61	0.60	0.58	0.56	0.55	6.54	0.54		
Conductivity (uS)	± 3%	632	627	716	758	804	820	806	819	809		
pH (SU)	± 0.1	6.34	6.25	6.30	6.33	6.36	6.36	6.36	6.38	6.38		
ORP (mV)	±10 mV	104.8	129.0	137.2	136.4	133.3	129.7	126.8	121.7	124.3		
Turbidity (NTU)	±10%	107.9	35.42	17.91	9.71	5.11	4.09	5.36	4.96	5.29		

Field Parameters	Time (since start of purging)												
Time (minutes)													
Water Level (ft)													
Temperature (C)													
DO (mg/L)													
Conductivity (uS)													
pH (SU)													
ORP (mV)													
Turbidity (NTU)													

VOLUMES PURGED: ~1.5 GALLONS AVG PURGE RATE: ~140 mL/min

TIME STARTED: 1040 TIME FINISHED: 1120

OBSERVATIONS: COLOR clear ODOR none
SHEEN none OTHER

WATER LEVEL AT 80% RECOV.: — ft WATER RECOVERY HEIGHT: — ft

SAMPLE COLLECTION TIME: 1120 RECOVERY TIME IN MINUTES: —

NOTES: Turbidity <50 NTU so no filter used when sampling metals
MS/MSD collected here

Sampled for:

EQUIPMENT: (PERISTALTIC PUMP) NEW DISPOSABLE BAILER STAINLESS STEEL BAILER
BLADDER PUMP SUBMERSIBLE PUMP OTHER

SERIAL NOs: FA02191

Created On: 3/15/2018 Revised On: 4/1/2019

WELL LOW-FLOW PURGING LOG

Sampling Activity (check all that apply):

☐ Initial / 3 Vol. ☒ Low-Flow ☒ Sample

DATE: 5/14/20

PROJECT NO.: 20-0319

SAMPLING PERSONNEL: KC/ESK

NOTES TAKEN BY: KC

PROJECT NAME: Schuyler Heights Fire District

PROJECT LOCATION: Waterviliet, NY

NOTES CHECKED BY: _____

MONITORING WELL ID#: MW6

DEPTH TO WATER (ft): 14.71 FROM: TPVC

DEPTH TO BOTTOM (ft): 22.24 FROM: TPVC

WATER COLUMN HEIGHT: 7.53 ft

WELL VOLUME: 0.48 GALLONS

WELL CASING DIAMETER: 1.25 in.

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GAL/LF	3" = 0.38 GAL/LF
1.25" = 0.064 GAL/LF	4" = 0.66 GAL/LF
2" = 0.16 GAL/LF	6" = 1.47 GAL/LF

Field Parameters	Stabilization	Time (since start of purging)										
Time (minutes)	-	Initial	5	10	15	20	25	30	35	40	45	50
Water Level (ft)	± 0.00	14.71	14.86	14.89	14.89	14.89	14.89	14.89	14.89	14.89	14.89	14.89
Temperature (C)	± 3%	13.4	12.9	12.5	12.7	11.9	11.8	12.3	12.0	12.7	12.5	12.1
DO (mg/L)	±10%	0.72	0.64	0.58	0.55	0.56	0.54	0.52	0.52	0.51	0.51	0.51
Conductivity (uS)	± 3%	1282	1281	1328	1337	1334	1330	1323	1335	1328	1338	1336
pH (SU)	± 0.1	6.51	6.36	6.41	6.42	6.43	6.43	6.43	6.44	6.43	6.44	6.43
ORP (mV)	±10 mV	141.7	171.7	201.7	243.7	267.7	241.1	212.5	212.7	212.7	213	213.6
Turbidity (NTU)	±10%	363.47	260.67	102.11	90.46	29.19	40.32	15.96	13.72	29.51	34.22	33.91

Field Parameters	Time (since start of purging)											
Time (minutes)	55	60	65									
Water Level (ft)	14.89	14.89	14.89									
Temperature (C)	11.9	12.0	12.0									
DO (mg/L)	0.51	0.51	0.51									
Conductivity (uS)	1340	1338	1338									
pH (SU)	6.44	6.44	6.44									
ORP (mV)	212.8	212.6	211.9									
Turbidity (NTU)	35.22	36.17	37.25									

VOLUMES PURGED: ~3 GALLONS AVG PURGE RATE: ~475 mL/min

TIME STARTED: ~~1200~~ 1210 TIME FINISHED: 1315

OBSERVATIONS: COLOR Clear ODOR none

SHEEN none OTHER _____

WATER LEVEL AT 80% RECOV.: — ft WATER RECOVERY HEIGHT: — ft

SAMPLE COLLECTION TIME: 1315 RECOVERY TIME IN MINUTES: —

NOTES: FDd collected here

turbidity <50 NTU so no filter used on metals

Sampled for: 1,4 Dioxane, PFAS, Total metals

EQUIPMENT: (PERISTALTIC PUMP) NEW DISPOSABLE BAILER STAINLESS STEEL BAILER

BLADDER PUMP SUBMERSIBLE PUMP OTHER

SERIAL NOs: FA 02191

WELL LOW-FLOW PURGING LOG

Sampling Activity (check all that apply):

☐ Initial / 3 Vol. ☒ Low-Flow ☒ Sample

DATE: 5/14/20
PROJECT NO.: 20.0319
SAMPLING PERSONNEL: K. Gerlek
NOTES TAKEN BY: KC

PROJECT NAME: Schuyler Heights Fire District
PROJECT LOCATION: Waterville, NY
NOTES CHECKED BY: _____

MONITORING WELL ID#: MW3
DEPTH TO WATER (ft): 12.97 FROM: TPVC
DEPTH TO BOTTOM (ft): 20.05 FROM: TPVC
WATER COLUMN HEIGHT: 7.08 ft
WELL VOLUME: 0.45 GALLONS

WELL CASING DIAMETER: 1.25 in.

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GAL/LF | 3" = 0.38 GAL/LF
1.25" = 0.064 GAL/LF | 4" = 0.66 GAL/LF
2" = 0.16 GAL/LF | 6" = 1.47 GAL/LF

Field Parameters	Stabilization	Time (since start of purging)										
Time (minutes)	-	Initial	5	10	15	20	25	30	35	40		
Water Level (ft)	± 0.00	12.97	12.97	12.97	12.97	12.97	12.97	12.97	12.97	12.97		
Temperature (C)	± 3%	13.0	11.4	13.1	11.5	11.7	11.5	10.9	10.8	10.9		
DO (mg/L)	±10%	3.76	0.88	0.68	0.61	0.61	0.60	0.57	0.56	0.55		
Conductivity (uS)	± 3%	907	901	911	921	919	925	931	929	929		
pH (SU)	± 0.1	6.37	5.80	5.81	5.80	5.81	5.80	5.81	5.80	5.81		
ORP (mV)	±10 mV	294.1	243.6	251.6	257.8	258.3	258.7	259.8	258.1	257.9		
Turbidity (NTU)	±10%	98.09	34.09	15.56	6.38	4.35	2.91	2.47	2.36	2.31		

Field Parameters	Time (since start of purging)												
Time (minutes)													
Water Level (ft)													
Temperature (C)													
DO (mg/L)													
Conductivity (uS)													
pH (SU)													
ORP (mV)													
Turbidity (NTU)													

VOLUMES PURGED: ~1.5 GALLONS
AVG PURGE RATE: ~140 mL/min
TIME STARTED: 1345
TIME FINISHED: 1425

OBSERVATIONS: COLOR clear
ODOR none
SHEEN none
OTHER _____

WATER LEVEL AT 80% RECOV.: — ft
WATER RECOVERY HEIGHT: — ft
SAMPLE COLLECTION TIME: 1425
RECOVERY TIME IN MINUTES: —
NOTES: turbidity <50 NTU so no filter used when sampling metals

Sampled for: 1,4 Dioxane, PFAS, Total Metals

EQUIPMENT: PERISTALTIC PUMP | NEW DISPOSABLE BAILER | STAINLESS STEEL BAILER
BLADDER PUMP | SUBMERSIBLE PUMP | OTHER

SERIAL NOs: PA82191

Created On: 3/15/2018
Revised On: 4/1/2019

WELL LOW-FLOW PURGING LOG

Sampling Activity (check all that apply):

☐ Initial / 3 Vol. ☒ Low-Flow ☒ Sample

DATE: 5/14/20
PROJECT NO.: 20039
SAMPLING PERSONNEL: Parker
NOTES TAKEN BY: KC

PROJECT NAME: Schuyler Heights Fire District
PROJECT LOCATION: Watervliet NY
NOTES CHECKED BY: _____

MONITORING WELL ID#: MW-4
DEPTH TO WATER (ft): 13.72 FROM: TPVC
DEPTH TO BOTTOM (ft): 17.42 FROM: TPVC
WATER COLUMN HEIGHT: 3.70 ft
WELL VOLUME: 0.24 GALLONS

WELL CASING DIAMETER: 1.25 in.

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GAL/LF | 3" = 0.38 GAL/LF
1.25" = 0.064 GAL/LF | 4" = 0.66 GAL/LF
2" = 0.16 GAL/LF | 6" = 1.47 GAL/LF

Field Parameters	Stabilization	Time (since start of purging)										
Time (minutes)	-	Initial	5	10	15	20	25	30	35	40	45	50
Water Level (ft)	± 0.00	13.72	13.91	13.91	13.91	13.91	13.91	13.91	13.91	13.91	13.91	13.91
Temperature (C)	± 3%	15.46	11.4	11.5	11.0	11.2	11.6	11.5	11.5	11.5	11.6	11.6
DO (mg/L)	±10%	2.76	1.11	0.74	0.63	1.19	0.69	0.62	0.58	0.56	0.54	0.54
Conductivity (uS)	± 3%	907	916	914	907	913	920	922	920	922	920	924
pH (SU)	± 0.1	6.62	6.59	6.61	6.74	6.64	6.61	6.62	6.62	6.62	6.62	6.62
ORP (mV)	±10 mV	260	14.6	-7.9	-24.3	-32.1	-47.1	-48.3	-51.7	-50.5	-52.2	-56.3
Turbidity (NTU)	±10%	369.41	301.92	205.6	133.6	88.62	76.94	32.14	26.78	19.16	19.34	19.49

Field Parameters	Time (since start of purging)												
Time (minutes)													
Water Level (ft)													
Temperature (C)													
DO (mg/L)													
Conductivity (uS)													
pH (SU)													
ORP (mV)													
Turbidity (NTU)													

VOLUMES PURGED: ~2 GALLONS
AVG PURGE RATE: ~150 mL/min
TIME STARTED: 1450
TIME FINISHED: 1540

OBSERVATIONS: COLOR orange tint/clear
ODOR none
SHEEN none
OTHER _____

WATER LEVEL AT 80% RECOV.: — ft
WATER RECOVERY HEIGHT: — ft
SAMPLE COLLECTION TIME: 1540
RECOVERY TIME IN MINUTES: —

NOTES: turbidity <50 NTU so no filter used on metals

Sampled for: 1,4 Dioxane, PFAS & Total metals

EQUIPMENT: (PERISTALTIC PUMP) NEW DISPOSABLE BAILER STAINLESS STEEL BAILER
BLADDER PUMP SUBMERSIBLE PUMP OTHER

SERIAL NOs: FA02191

WELL LOW-FLOW PURGING LOG

Sampling Activity (check all that apply):

☐ Initial / 3 Vol. ☒ Low-Flow ☒ Sample

DATE: 5/15/20

PROJECT NO.: 20-0319

SAMPLING PERSONNEL: K Carter

NOTES TAKEN BY: KC

PROJECT NAME: Schuyler Heights Fire District

PROJECT LOCATION: Watervliet, NY

NOTES CHECKED BY: _____

MONITORING WELL ID#: MW 2

DEPTH TO WATER (ft): 11.32 FROM: TPVC

DEPTH TO BOTTOM (ft): 16.41 FROM: TPVC

WATER COLUMN HEIGHT: 5.09 ft

WELL VOLUME: 0.33 GALLONS

WELL CASING DIAMETER: 1.25 in.

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GAL/LF 3" = 0.38 GAL/LF

1.25" = 0.064 GAL/LF 4" = 0.66 GAL/LF

2" = 0.16 GAL/LF 6" = 1.47 GAL/LF

Field Parameters	Stabilization	Time (since start of purging)										
Time (minutes)	-	Initial	5	10	15	20	25	30	35	40	45	50
Water Level (ft)	± 0.00	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32	11.32
Temperature (C)	± 3%	11.7	11.5	11.7	11.6	11.6	11.5	11.6	11.5	11.5	11.6	11.5
DO (mg/L)	±10%	3.07	0.84	0.70	0.65	0.61	0.58	0.57	0.56	0.55	0.55	0.53
Conductivity (uS)	± 3%	1030	1032	1048	1060	1055	1053	1056	1057	1055	1057	1057
pH (SU)	± 0.1	6.19	6.02	6.02	6.04	6.06	6.08	6.09	6.10	6.12	6.13	6.13
ORP (mV)	±10 mV	351.4	364.8	370.6	372.7	373.5	373.9	374.0	373.7	373.1	372.8	372.3
Turbidity (NTU)	±10%	92.13	70.55	135.94	86.76	34.24	13.39	7.63	5.04	4.04	4.19	3.88

Field Parameters	Time (since start of purging)												
Time (minutes)													
Water Level (ft)													
Temperature (C)													
DO (mg/L)													
Conductivity (uS)													
pH (SU)													
ORP (mV)													
Turbidity (NTU)													

VOLUMES PURGED: 2 GALLONS AVG PURGE RATE: 250ml/min

TIME STARTED: 735 TIME FINISHED: 825

OBSERVATIONS: COLOR clear ODOR none

SHEEN none OTHER _____

WATER LEVEL AT 80% RECOV.: — ft WATER RECOVERY HEIGHT: — ft

SAMPLE COLLECTION TIME: 825 RECOVERY TIME IN MINUTES: —

NOTES: turbidity < 50 NTU so no filter used on metals sample

Sampled for: 1,4 Dioxane, total metals, PFAS

EQUIPMENT: PERISTALTIC PUMP NEW DISPOSABLE BAILER STAINLESS STEEL BAILER

BLADDER PUMP SUBMERSIBLE PUMP OTHER

SERIAL NOs: PA02491

Created On: 3/15/2018 Revised On: 4/1/2019

WELL LOW-FLOW PURGING LOG

Sampling Activity (check all that apply):

☐ Initial / 3 Vol. ☒ Low-Flow ☒ Sample

DATE: 5/15/20 PROJECT NAME: Schuyler Heights Fire District

PROJECT NO.: 20.0319 PROJECT LOCATION:

SAMPLING PERSONNEL: K. Geiter

NOTES TAKEN BY: KC NOTES CHECKED BY:

MONITORING WELL ID#: MW1 WELL CASING DIAMETER: 1.25 in.

DEPTH TO WATER (ft): 8.33 FROM: TPVC

DEPTH TO BOTTOM (ft): 11.41 FROM: TPVC

WATER COLUMN HEIGHT: 3.08 ft

WELL VOLUME: 0.2 GALLONS

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GAL/LF 3" = 0.38 GAL/LF

1.25" = ~~0.064 GAL/LF~~ 4" = 0.66 GAL/LF

2" = 0.16 GAL/LF 6" = 1.47 GAL/LF

Field Parameters	Stabilization	Time (since start of purging)										
Time (minutes)	-	Initial	5	10	15	20	25	30	35	40	45	
Water Level (ft)	± 0.00	8.33	8.54	8.59	8.91	8.91	8.91	8.91	8.91	8.91	8.91	
Temperature (C)	± 3%	12.3	11.4	11.4	11.3	11.1	11.1	11.1	11.2	11.1	11.1	
DO (mg/L)	±10%	3.91	1.19	0.77	0.79	0.73	0.70	0.60	0.62	0.60	0.59	
Conductivity (uS)	± 3%	589	601	650	678	727	804	850	858	855	853	
pH (SU)	± 0.1	~~8.01~~	6.60	6.73	6.69	6.58	6.44	6.40	6.38	6.39	6.38	
ORP (mV)	±10 mV	244.3	53.9	14.7	13.5	5.3	19.1	16.9	16.5	16.4	16.3	
Turbidity (NTU)	±10%	375.87	289.93	206.88	172.68	148.83	93.44	52.71	41.52	40.95	38.72	

Field Parameters	Time (since start of purging)												
Time (minutes)													
Water Level (ft)													
Temperature (C)													
DO (mg/L)													
Conductivity (uS)													
pH (SU)													
ORP (mV)													
Turbidity (NTU)													

VOLUMES PURGED: ~1.75 GALLONS AVG PURGE RATE: ~150 mL/min

TIME STARTED: 845 TIME FINISHED: 930

OBSERVATIONS: COLOR clear ODOR none

SHEEN none OTHER

WATER LEVEL AT 80% RECOV.: — ft WATER RECOVERY HEIGHT: — ft

SAMPLE COLLECTION TIME: 930 RECOVERY TIME IN MINUTES: —

NOTES: turbidity <50 NTU so no filter used when sampling metals

Sampled for: 1,4 Dioxane, PFAS, metals

EQUIPMENT: (PERISTALTIC PUMP) NEW DISPOSABLE BAILER STAINLESS STEEL BAILER

BLADDER PUMP SUBMERSIBLE PUMP OTHER

SERIAL NOs: FA02191

Created On: 3/15/2018 Revised On: 4/1/2019

ANALYTICAL REPORT

Lab Number:	L2020210
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Jeffrey Marx
Phone:	(518) 786-7548
Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT
Project Number:	20.0319
Report Date:	06/02/20

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2020210-01	MW7-200514	WATER	WATERVALIET,NY	05/14/20 11:20	05/15/20
L2020210-02	MW6-200514	WATER	WATERVALIET,NY	05/14/20 13:15	05/15/20
L2020210-03	FD-01-200514	WATER	WATERVALIET,NY	05/14/20 00:00	05/15/20
L2020210-04	MW3-200514	WATER	WATERVALIET,NY	05/14/20 14:25	05/15/20
L2020210-05	MW4-200514	WATER	WATERVALIET,NY	05/14/20 15:40	05/15/20
L2020210-06	MW5-200514	WATER	WATERVALIET,NY	05/14/20 16:20	05/15/20
L2020210-07	MW2-200514	WATER	WATERVALIET,NY	05/15/20 08:25	05/15/20
L2020210-08	MW1-200514	WATER	WATERVALIET,NY	05/15/20 09:30	05/15/20

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020210
Project Number:	20.0319	**Report Date:**	06/02/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020210
Project Number:	20.0319	**Report Date:**	06/02/20

Case Narrative (continued)

Report Revision

June 02, 2020: The Total Metals analyte list has been amended on L2020210-01 through -08. The Dissolved Metals anlayte list has been amended on L2020210-01.

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2020210-06: The sample was field filtered for Dissolved Metals.

Total Metals

The WG1372417-3/-4 MS/MSD recoveries, performed on L2020210-01, are outside the acceptance criteria for iron (155%/132%) and thallium (MS at 127%). A post digestion spike was performed and was within acceptance criteria.

Dissolved Metals

The WG1372440-3 MS recoveries for calcium (139%) and manganese (34%), performed on L2020210-06, do not apply because the sample concentrations are greater than four times the spike amounts added.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Jennifer L Clements

Title: Technical Director/Representative Date: 06/02/20

ORGANICS

SEMIVOLATILES

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-01
Client ID: MW7-200514
Sample Location: WATERVALIET,NY

Date Collected: 05/14/20 11:20
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/20/20 11:15
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/19/20 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	1060		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	50		15-110

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-02
Client ID: MW6-200514
Sample Location: WATERVALIET,NY

Date Collected: 05/14/20 13:15
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/20/20 12:46
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/19/20 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	202.		ng/l	156	35.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	40		15-110

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-03
Client ID: FD-01-200514
Sample Location: WATERVALIET,NY

Date Collected: 05/14/20 00:00
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/20/20 13:19
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/19/20 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	219.		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	47		15-110

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-04
Client ID: MW3-200514
Sample Location: WATERVALIET,NY

Date Collected: 05/14/20 14:25
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/20/20 13:51
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/19/20 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	38		15-110

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-05
Client ID: MW4-200514
Sample Location: WATERVALIET,NY

Date Collected: 05/14/20 15:40
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/20/20 14:27
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/19/20 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	156	35.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	44		15-110

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-06
Client ID: MW5-200514
Sample Location: WATERVALIET,NY

Date Collected: 05/14/20 16:20
Date Received: 05/15/20
Field Prep: Refer to COC

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/20/20 15:04
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/19/20 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	163	36.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	54		15-110

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-07
Client ID: MW2-200514
Sample Location: WATERVALIET,NY

Date Collected: 05/15/20 08:25
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/20/20 15:35
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/19/20 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	152.		ng/l	150	33.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	45		15-110

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-08
Client ID: MW1-200514
Sample Location: WATERVALIET,NY

Date Collected: 05/15/20 09:30
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 05/20/20 16:10
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/19/20 16:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
1,4 Dioxane by 8270D-SIM - Mansfield Lab						
1,4-Dioxane	ND		ng/l	156	35.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	48		15-110

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 05/20/20 09:40
Analyst: PS

Extraction Method: EPA 3510C
Extraction Date: 05/19/20 17:44

Parameter	Result	Qualifier	Units	RL	MDL
1,4 Dioxane by 8270D-SIM - Mansfield Lab for sample(s): 01-08 Batch: WG1372397-1					
1,4-Dioxane	ND		ng/l	150	33.9

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,4-Dioxane-d8	45		15-110

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT

Project Number: 20.0319

Lab Number: L2020210

Report Date: 06/02/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab	Associated sample(s): 01-08		Batch: WG1372397-2		WG1372397-3			
1,4-Dioxane	110		111		40-140	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,4-Dioxane-d8	46		48		15-110

Matrix Spike Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
1,4 Dioxane by 8270D-SIM - Mansfield Lab	Associated sample(s): 01-08		QC Batch ID: WG1372397-4			WG1372397-5			QC Sample: L2020210-01			Client ID: MW7-200514
1,4-Dioxane	1060	5000	6810	115		6770	114		40-140	1		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,4-Dioxane-d8	39		38		15-110

METALS

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-01 Date Collected: 05/14/20 11:20

Client ID: MW7-200514 Date Received: 05/15/20

Sample Location: WATERVALIET,NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00869	J	mg/l	0.0100	0.00327	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Antimony, Total	0.00107	J	mg/l	0.00400	0.00042	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00075		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Barium, Total	0.1059		mg/l	0.00050	0.00017	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00016	J	mg/l	0.00020	0.00005	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Calcium, Total	145.		mg/l	0.100	0.0394	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Chromium, Total	0.00019	J	mg/l	0.00100	0.00017	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00145		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Copper, Total	0.00092	J	mg/l	0.00100	0.00038	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Iron, Total	0.311		mg/l	0.0500	0.0191	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Magnesium, Total	19.7		mg/l	0.0700	0.0242	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Manganese, Total	8.085		mg/l	0.00100	0.00044	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/20/20 10:00	05/20/20 17:13	EPA 7470A	1,7470A	AL
Molybdenum, Total	ND		mg/l	0.00200	0.00067	1	05/20/20 09:05	05/29/20 15:12	EPA 3005A	1,6020B	AM
Nickel, Total	0.00369		mg/l	0.00200	0.00055	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Potassium, Total	10.1		mg/l	0.100	0.0309	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Sodium, Total	18.9		mg/l	0.100	0.0293	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Thallium, Total	0.00047	J	mg/l	0.00100	0.00014	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Tin, Total	0.0057		mg/l	0.0030	0.0011	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Titanium, Total	0.2256		mg/l	0.00050	0.00007	1	05/20/20 09:05	05/21/20 13:02	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/20/20 09:05	05/21/20 13:01	EPA 3005A	1,6020B	AM

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-02 Date Collected: 05/14/20 13:15

Client ID: MW6-200514 Date Received: 05/15/20

Sample Location: WATERVALIET,NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0404		mg/l	0.0100	0.00327	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00044	J	mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Barium, Total	0.06400		mg/l	0.00050	0.00017	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00023		mg/l	0.00020	0.00005	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Calcium, Total	242.		mg/l	0.100	0.0394	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Chromium, Total	0.00026	J	mg/l	0.00100	0.00017	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00377		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Copper, Total	0.00677		mg/l	0.00100	0.00038	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Iron, Total	0.129		mg/l	0.0500	0.0191	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Lead, Total	0.00073	J	mg/l	0.00100	0.00034	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Magnesium, Total	44.0		mg/l	0.0700	0.0242	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Manganese, Total	5.312		mg/l	0.00100	0.00044	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/20/20 10:00	05/20/20 17:31	EPA 7470A	1,7470A	AL
Molybdenum, Total	0.00241	J	mg/l	0.00600	0.00067	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Nickel, Total	0.04469		mg/l	0.00200	0.00055	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Potassium, Total	14.6		mg/l	0.100	0.0309	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Sodium, Total	40.4		mg/l	0.100	0.0293	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Thallium, Total	0.00017	J	mg/l	0.00100	0.00014	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Tin, Total	ND		mg/l	0.0030	0.0011	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Titanium, Total	0.3768		mg/l	0.00050	0.00007	1	05/20/20 09:05	05/21/20 13:47	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/20/20 09:05	05/21/20 13:46	EPA 3005A	1,6020B	AM

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-03 Date Collected: 05/14/20 00:00

Client ID: FD-01-200514 Date Received: 05/15/20

Sample Location: WATERVALIET,NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0660		mg/l	0.0100	0.00327	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00045	J	mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Barium, Total	0.06607		mg/l	0.00050	0.00017	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00025		mg/l	0.00020	0.00005	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Calcium, Total	246.		mg/l	0.100	0.0394	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Chromium, Total	0.00035	J	mg/l	0.00100	0.00017	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00366		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Copper, Total	0.01528		mg/l	0.00100	0.00038	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Iron, Total	0.201		mg/l	0.0500	0.0191	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Lead, Total	0.00483		mg/l	0.00100	0.00034	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Magnesium, Total	44.6		mg/l	0.0700	0.0242	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Manganese, Total	5.456		mg/l	0.00100	0.00044	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/20/20 10:00	05/20/20 17:33	EPA 7470A	1,7470A	AL
Molybdenum, Total	0.00281	J	mg/l	0.00600	0.00067	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Nickel, Total	0.04703		mg/l	0.00200	0.00055	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Potassium, Total	15.0		mg/l	0.100	0.0309	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Sodium, Total	41.1		mg/l	0.100	0.0293	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Thallium, Total	0.00014	J	mg/l	0.00100	0.00014	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Tin, Total	0.0018	J	mg/l	0.0030	0.0011	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Titanium, Total	0.3807		mg/l	0.00050	0.00007	1	05/20/20 09:05	05/21/20 13:52	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM
Zinc, Total	0.1479		mg/l	0.01000	0.00341	1	05/20/20 09:05	05/21/20 13:51	EPA 3005A	1,6020B	AM

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-04 Date Collected: 05/14/20 14:25

Client ID: MW3-200514 Date Received: 05/15/20

Sample Location: WATERVALIET,NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.00491	J	mg/l	0.0100	0.00327	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Antimony, Total	0.00046	J	mg/l	0.00400	0.00042	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00021	J	mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Barium, Total	0.1382		mg/l	0.00050	0.00017	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00032		mg/l	0.00020	0.00005	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Calcium, Total	58.0		mg/l	0.100	0.0394	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Chromium, Total	0.00019	J	mg/l	0.00100	0.00017	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00048	J	mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Copper, Total	0.00224		mg/l	0.00100	0.00038	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Iron, Total	0.0899		mg/l	0.0500	0.0191	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Magnesium, Total	19.6		mg/l	0.0700	0.0242	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Manganese, Total	0.5876		mg/l	0.00100	0.00044	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/20/20 10:00	05/20/20 17:40	EPA 7470A	1,7470A	AL
Molybdenum, Total	0.00091	J	mg/l	0.00600	0.00067	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Nickel, Total	0.00546		mg/l	0.00200	0.00055	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Potassium, Total	2.93		mg/l	0.100	0.0309	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Sodium, Total	112.		mg/l	0.100	0.0293	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Tin, Total	ND		mg/l	0.0030	0.0011	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Titanium, Total	0.08914		mg/l	0.00050	0.00007	1	05/20/20 09:05	05/21/20 13:57	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM
Zinc, Total	0.04918		mg/l	0.01000	0.00341	1	05/20/20 09:05	05/21/20 13:56	EPA 3005A	1,6020B	AM

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-05 Date Collected: 05/14/20 15:40

Client ID: MW4-200514 Date Received: 05/15/20

Sample Location: WATERVALIET,NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Antimony, Total	0.00354	J	mg/l	0.00400	0.00042	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00047	J	mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Barium, Total	0.06258		mg/l	0.00050	0.00017	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00018	J	mg/l	0.00020	0.00005	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Calcium, Total	134.		mg/l	0.100	0.0394	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Chromium, Total	0.00017	J	mg/l	0.00100	0.00017	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00066		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Copper, Total	0.01874		mg/l	0.00100	0.00038	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Iron, Total	42.9		mg/l	0.0500	0.0191	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Lead, Total	0.00384		mg/l	0.00100	0.00034	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Magnesium, Total	31.3		mg/l	0.0700	0.0242	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Manganese, Total	2.171		mg/l	0.00100	0.00044	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/20/20 10:00	05/20/20 17:42	EPA 7470A	1,7470A	AL
Molybdenum, Total	ND		mg/l	0.00600	0.00067	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Nickel, Total	0.00580		mg/l	0.00200	0.00055	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Potassium, Total	12.0		mg/l	0.100	0.0309	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Sodium, Total	12.2		mg/l	0.100	0.0293	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Tin, Total	ND		mg/l	0.0030	0.0011	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Titanium, Total	0.2097		mg/l	0.00050	0.00007	1	05/20/20 09:05	05/21/20 14:02	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM
Zinc, Total	0.04008		mg/l	0.01000	0.00341	1	05/20/20 09:05	05/21/20 14:01	EPA 3005A	1,6020B	AM

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-06 Date Collected: 05/14/20 16:20

Client ID: MW5-200514 Date Received: 05/15/20

Sample Location: WATERVALIET,NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4.76		mg/l	0.0100	0.00327	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Antimony, Total	0.00153	J	mg/l	0.00400	0.00042	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Arsenic, Total	0.04939		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Barium, Total	0.2795		mg/l	0.00050	0.00017	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Beryllium, Total	0.00043	J	mg/l	0.00050	0.00010	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00435		mg/l	0.00020	0.00005	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Calcium, Total	77.0		mg/l	0.100	0.0394	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Chromium, Total	0.01571		mg/l	0.00100	0.00017	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Cobalt, Total	0.2323		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Copper, Total	1.567		mg/l	0.00100	0.00038	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Iron, Total	61.2		mg/l	0.0500	0.0191	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Lead, Total	0.1477		mg/l	0.00100	0.00034	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Magnesium, Total	31.9		mg/l	0.0700	0.0242	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Manganese, Total	9.016		mg/l	0.00100	0.00044	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Mercury, Total	0.05449		mg/l	0.00100	0.00045	5	05/20/20 10:00	05/20/20 20:00	EPA 7470A	1,7470A	AL
Molybdenum, Total	0.06745		mg/l	0.00200	0.00067	1	05/20/20 09:05	05/29/20 15:23	EPA 3005A	1,6020B	AM
Nickel, Total	2.245		mg/l	0.00200	0.00055	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Potassium, Total	5.11		mg/l	0.100	0.0309	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Selenium, Total	0.00759		mg/l	0.00500	0.00173	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Silver, Total	0.01303		mg/l	0.00040	0.00016	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Sodium, Total	41.4		mg/l	0.100	0.0293	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Thallium, Total	0.00039	J	mg/l	0.00100	0.00014	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Tin, Total	0.0033		mg/l	0.0030	0.0011	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Titanium, Total	0.1756		mg/l	0.00050	0.00007	1	05/20/20 09:05	05/21/20 14:07	EPA 3005A	1,6020B	AM
Vanadium, Total	0.02130		mg/l	0.00500	0.00157	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM
Zinc, Total	0.9364		mg/l	0.01000	0.00341	1	05/20/20 09:05	05/21/20 14:06	EPA 3005A	1,6020B	AM

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-06 Date Collected: 05/14/20 16:20

Client ID: MW5-200514 Date Received: 05/15/20

Sample Location: WATERVALIET,NY Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00824	J	mg/l	0.0100	0.00327	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Antimony, Dissolved	0.00053	J	mg/l	0.00400	0.00042	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Arsenic, Dissolved	0.00509		mg/l	0.00050	0.00016	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Barium, Dissolved	0.1501		mg/l	0.00050	0.00017	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Calcium, Dissolved	53.3		mg/l	0.100	0.0394	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Chromium, Dissolved	0.00039	J	mg/l	0.00100	0.00017	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Cobalt, Dissolved	0.01014		mg/l	0.00050	0.00016	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Copper, Dissolved	0.00079	J	mg/l	0.00100	0.00038	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Iron, Dissolved	15.2		mg/l	0.0500	0.0191	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Magnesium, Dissolved	23.6		mg/l	0.0700	0.0242	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Manganese, Dissolved	7.048		mg/l	0.00100	0.00044	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/20/20 14:57	05/20/20 20:28	EPA 7470A	1,7470A	AL
Molybdenum, Dissolved	0.00258		mg/l	0.00200	0.00067	1	05/20/20 13:51	05/29/20 14:49	EPA 3005A	1,6020B	AM
Nickel, Dissolved	0.08647		mg/l	0.00200	0.00055	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Potassium, Dissolved	3.47		mg/l	0.100	0.0309	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Sodium, Dissolved	41.2		mg/l	0.100	0.0293	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Thallium, Dissolved	0.00041	J	mg/l	0.00100	0.00014	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Tin, Dissolved	0.0016	J	mg/l	0.0030	0.0011	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Titanium, Dissolved	0.08382		mg/l	0.00050	0.00007	1	05/20/20 13:51	05/21/20 15:10	EPA 3005A	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/20/20 13:51	05/21/20 15:09	EPA 3005A	1,6020B	AM

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-07 Date Collected: 05/15/20 08:25

Client ID: MW2-200514 Date Received: 05/15/20

Sample Location: WATERVALIET,NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.0359		mg/l	0.0100	0.00327	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Antimony, Total	0.00129	J	mg/l	0.00400	0.00042	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00034	J	mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Barium, Total	0.07918		mg/l	0.00050	0.00017	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Cadmium, Total	0.00023		mg/l	0.00020	0.00005	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Calcium, Total	166.		mg/l	0.100	0.0394	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Chromium, Total	0.00095	J	mg/l	0.00100	0.00017	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00205		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Copper, Total	0.00411		mg/l	0.00100	0.00038	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Iron, Total	0.278		mg/l	0.0500	0.0191	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Lead, Total	0.00251		mg/l	0.00100	0.00034	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Magnesium, Total	45.2		mg/l	0.0700	0.0242	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Manganese, Total	3.960		mg/l	0.00100	0.00044	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/20/20 10:00	05/20/20 17:47	EPA 7470A	1,7470A	AL
Molybdenum, Total	ND		mg/l	0.00200	0.00067	1	05/20/20 09:05	05/29/20 15:26	EPA 3005A	1,6020B	AM
Nickel, Total	0.00645		mg/l	0.00200	0.00055	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Potassium, Total	8.60		mg/l	0.100	0.0309	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Sodium, Total	20.3		mg/l	0.100	0.0293	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Tin, Total	ND		mg/l	0.0030	0.0011	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Titanium, Total	0.2633		mg/l	0.00050	0.00007	1	05/20/20 09:05	05/21/20 14:12	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM
Zinc, Total	0.02416		mg/l	0.01000	0.00341	1	05/20/20 09:05	05/21/20 14:11	EPA 3005A	1,6020B	AM

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

SAMPLE RESULTS

Lab ID: L2020210-08 Date Collected: 05/15/20 09:30

Client ID: MW1-200514 Date Received: 05/15/20

Sample Location: WATERVALIET,NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.308		mg/l	0.0100	0.00327	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Arsenic, Total	0.00273		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Barium, Total	0.1272		mg/l	0.00050	0.00017	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Calcium, Total	142.		mg/l	0.100	0.0394	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Chromium, Total	0.00064	J	mg/l	0.00100	0.00017	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Cobalt, Total	0.00174		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Copper, Total	0.00200		mg/l	0.00100	0.00038	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Iron, Total	6.45		mg/l	0.0500	0.0191	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Lead, Total	0.00124		mg/l	0.00100	0.00034	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Magnesium, Total	20.3		mg/l	0.0700	0.0242	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Manganese, Total	4.435		mg/l	0.00100	0.00044	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/20/20 10:00	05/20/20 17:49	EPA 7470A	1,7470A	AL
Molybdenum, Total	0.00363	J	mg/l	0.00600	0.00067	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Nickel, Total	0.00207		mg/l	0.00200	0.00055	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Potassium, Total	5.28		mg/l	0.100	0.0309	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Sodium, Total	24.9		mg/l	0.100	0.0293	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Thallium, Total	ND		mg/l	0.00100	0.00014	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Tin, Total	ND		mg/l	0.0030	0.0011	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Titanium, Total	0.2194		mg/l	0.00050	0.00007	1	05/20/20 09:05	05/21/20 14:17	EPA 3005A	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM
Zinc, Total	0.00402	J	mg/l	0.01000	0.00341	1	05/20/20 09:05	05/21/20 14:16	EPA 3005A	1,6020B	AM

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1372417-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Antimony, Total	ND		mg/l	0.00400	0.00042	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Barium, Total	ND		mg/l	0.00050	0.00017	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Calcium, Total	ND		mg/l	0.100	0.0394	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Copper, Total	0.00070	J	mg/l	0.00100	0.00038	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Iron, Total	ND		mg/l	0.0500	0.0191	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Manganese, Total	ND		mg/l	0.00100	0.00044	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Molybdenum, Total	0.00122	J	mg/l	0.00600	0.00067	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Thallium, Total	0.00023	J	mg/l	0.00100	0.00014	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Tin, Total	ND		mg/l	0.0030	0.0011	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1372420-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	05/20/20 10:00	05/20/20 17:04	1,7470A	AL

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 06 Batch: WG1372440-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Antimony, Dissolved	ND		mg/l	0.00400	0.00042	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Chromium, Dissolved	0.00018	J	mg/l	0.00100	0.00017	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Iron, Dissolved	ND		mg/l	0.0500	0.0191	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Molybdenum, Dissolved	ND		mg/l	0.00200	0.00067	1	05/20/20 13:51	05/29/20 14:15	1,6020B	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Thallium, Dissolved	ND		mg/l	0.00100	0.00014	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Tin, Dissolved	ND		mg/l	0.0030	0.0011	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020210

Project Number: 20.0319 **Report Date:** 06/02/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 06 Batch: WG1372441-1										
Mercury, Dissolved	ND		mg/l	0.00020	0.00009	1	05/20/20 14:57	05/20/20 20:24	1,7470A	AL

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 06 Batch: WG1375394-1										
Titanium, Dissolved	0.00017	J	mg/l	0.00050	0.00007	1	05/20/20 13:51	05/21/20 14:45	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1375395-1										
Titanium, Total	0.00023	J	mg/l	0.00050	0.00007	1	05/20/20 09:05	05/21/20 12:36	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT

Project Number: 20.0319

Lab Number: L2020210

Report Date: 06/02/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1372417-2								
Aluminum, Total	114		-		80-120	-		
Antimony, Total	97		-		80-120	-		
Arsenic, Total	108		-		80-120	-		
Barium, Total	105		-		80-120	-		
Beryllium, Total	107		-		80-120	-		
Cadmium, Total	110		-		80-120	-		
Calcium, Total	113		-		80-120	-		
Chromium, Total	110		-		80-120	-		
Cobalt, Total	113		-		80-120	-		
Copper, Total	107		-		80-120	-		
Iron, Total	120		-		80-120	-		
Lead, Total	112		-		80-120	-		
Magnesium, Total	120		-		80-120	-		
Manganese, Total	110		-		80-120	-		
Molybdenum, Total	110		-		80-120	-		
Nickel, Total	113		-		80-120	-		
Potassium, Total	112		-		80-120	-		
Selenium, Total	107		-		80-120	-		
Silver, Total	109		-		80-120	-		
Sodium, Total	118		-		80-120	-		
Thallium, Total	118		-		80-120	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT

Project Number: 20.0319

Lab Number: L2020210

Report Date: 06/02/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1372417-2					
Tin, Total	103	-	80-120	-	
Vanadium, Total	111	-	80-120	-	
Zinc, Total	111	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1372420-2					
Mercury, Total	101	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT

Project Number: 20.0319

Lab Number: L2020210

Report Date: 06/02/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1372440-2					
Aluminum, Dissolved	104	-	80-120	-	
Antimony, Dissolved	91	-	80-120	-	
Arsenic, Dissolved	98	-	80-120	-	
Barium, Dissolved	97	-	80-120	-	
Beryllium, Dissolved	104	-	80-120	-	
Cadmium, Dissolved	102	-	80-120	-	
Calcium, Dissolved	110	-	80-120	-	
Chromium, Dissolved	102	-	80-120	-	
Cobalt, Dissolved	101	-	80-120	-	
Copper, Dissolved	97	-	80-120	-	
Iron, Dissolved	109	-	80-120	-	
Lead, Dissolved	108	-	80-120	-	
Magnesium, Dissolved	113	-	80-120	-	
Manganese, Dissolved	101	-	80-120	-	
Molybdenum, Dissolved	104	-	80-120	-	
Nickel, Dissolved	101	-	80-120	-	
Potassium, Dissolved	107	-	80-120	-	
Selenium, Dissolved	101	-	80-120	-	
Silver, Dissolved	102	-	80-120	-	
Sodium, Dissolved	112	-	80-120	-	
Thallium, Dissolved	112	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT

Project Number: 20.0319

Lab Number: L2020210

Report Date: 06/02/20

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1372440-2					
Tin, Dissolved	101	-	80-120	-	
Vanadium, Dissolved	104	-	80-120	-	
Zinc, Dissolved	100	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1372441-2					
Mercury, Dissolved	108	-	80-120	-	
Dissolved Metals - Mansfield Lab Associated sample(s): 06 Batch: WG1375394-2					
Titanium, Dissolved	89	-	80-120	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1375395-2					
Titanium, Total	92	-	80-120	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1372417-3 WG1372417-4 QC Sample: L2020210-01 Client ID: MW7-200514												
Aluminum, Total	0.00869J	2	2.20	110		2.20	110		75-125	0		20
Antimony, Total	0.00107J	0.5	0.5721	114		0.5742	115		75-125	0		20
Arsenic, Total	0.00075	0.12	0.1300	108		0.1303	108		75-125	0		20
Barium, Total	0.1059	2	2.157	102		2.185	104		75-125	1		20
Beryllium, Total	ND	0.05	0.05529	110		0.05557	111		75-125	1		20
Cadmium, Total	0.00016J	0.051	0.05584	109		0.05628	110		75-125	1		20
Calcium, Total	145.	10	154	90		155	100		75-125	1		20
Chromium, Total	0.00019J	0.2	0.2131	106		0.2142	107		75-125	1		20
Cobalt, Total	0.00145	0.5	0.5423	108		0.5498	110		75-125	1		20
Copper, Total	0.00092J	0.25	0.2607	104		0.2634	105		75-125	1		20
Iron, Total	0.311	1	1.86	**155**	Q	1.63	**132**	Q	75-125	13		20
Lead, Total	ND	0.51	0.5718	112		0.5791	114		75-125	1		20
Magnesium, Total	19.7	10	31.5	118		31.8	121		75-125	1		20
Manganese, Total	8.085	0.5	8.671	117		8.490	81		75-125	2		20
Molybdenum, Total	ND	1	1.105	110		1.091	109		75-125	1		20
Nickel, Total	0.00369	0.5	0.5454	108		0.5560	110		75-125	2		20
Potassium, Total	10.1	10	20.8	107		21.0	109		75-125	1		20
Selenium, Total	ND	0.12	0.129	108		0.128	107		75-125	1		20
Silver, Total	ND	0.05	0.05323	106		0.05437	109		75-125	2		20
Sodium, Total	18.9	10	28.0	91		28.5	96		75-125	2		20
Thallium, Total	0.00047J	0.12	0.1524	**127**	Q	0.1461	122		75-125	4		20

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1372417-3 WG1372417-4 QC Sample: L2020210-01 Client ID: MW7-200514									
Tin, Total	0.0057	1	1.072	107	1.090	108	75-125	2	20
Vanadium, Total	ND	0.5	0.5379	108	0.5525	110	75-125	3	20
Zinc, Total	ND	0.5	0.5382	108	0.5462	109	75-125	1	20
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1372420-3 WG1372420-4 QC Sample: L2020210-01 Client ID: MW7-200514									
Mercury, Total	ND	0.005	0.00554	111	0.00594	119	75-125	7	20

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery		MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1372440-3 QC Sample: L2020210-06 Client ID: MW5-200514										
Aluminum, Dissolved	0.00824J	2	2.10	105		-	-	75-125	-	20
Antimony, Dissolved	0.00053J	0.5	0.5548	111		-	-	75-125	-	20
Arsenic, Dissolved	0.00509	0.12	0.1262	101		-	-	75-125	-	20
Barium, Dissolved	0.1501	2	2.109	98		-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05259	105		-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05281	104		-	-	75-125	-	20
Calcium, Dissolved	53.3	10	67.2	**139**	Q	-	-	75-125	-	20
Chromium, Dissolved	0.00039J	0.2	0.2069	103		-	-	75-125	-	20
Cobalt, Dissolved	0.01014	0.5	0.5200	102		-	-	75-125	-	20
Copper, Dissolved	0.00079J	0.25	0.2503	100		-	-	75-125	-	20
Iron, Dissolved	15.2	1	16.4	120		-	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5545	109		-	-	75-125	-	20
Magnesium, Dissolved	23.6	10	35.3	117		-	-	75-125	-	20
Manganese, Dissolved	7.048	0.5	7.218	**34**	Q	-	-	75-125	-	20
Molybdenum, Dissolved	0.00258	1	1.103	110		-	-	75-125	-	20
Nickel, Dissolved	0.08647	0.5	0.6132	105		-	-	75-125	-	20
Potassium, Dissolved	3.47	10	14.7	112		-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.116	97		-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.05110	102		-	-	75-125	-	20
Sodium, Dissolved	41.2	10	49.8	86		-	-	75-125	-	20
Thallium, Dissolved	0.00041J	0.12	0.1246	104		-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1372440-3 QC Sample: L2020210-06 Client ID: MW5-200514									
Tin, Dissolved	0.0016J	1	1.077	108	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.5367	107	-	-	75-125	-	20
Zinc, Dissolved	ND	0.5	0.5089	102	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1372441-3 QC Sample: L2020210-06 Client ID: MW5-200514									
Mercury, Dissolved	ND	0.005	0.00529	106	-	-	75-125	-	20
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1375394-3 QC Sample: L2020210-06 Client ID: MW5-200514									
Titanium, Dissolved	0.08382	1	1.017	93	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1375395-3 WG1375395-4 QC Sample: L2020210-01 Client ID: MW7-200514									
Titanium, Total	0.2256	1	1.136	91	1.158	93	75-125	2	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1372440-4 QC Sample: L2020210-06 Client ID: MW5-200514						
Aluminum, Dissolved	0.00824J	0.00724J	mg/l	NC		20
Antimony, Dissolved	0.00053J	0.00098J	mg/l	NC		20
Arsenic, Dissolved	0.00509	0.00549	mg/l	7		20
Barium, Dissolved	0.1501	0.1580	mg/l	5		20
Beryllium, Dissolved	ND	ND	mg/l	NC		20
Cadmium, Dissolved	ND	ND	mg/l	NC		20
Calcium, Dissolved	53.3	54.5	mg/l	2		20
Chromium, Dissolved	0.00039J	0.00044J	mg/l	NC		20
Cobalt, Dissolved	0.01014	0.01050	mg/l	3		20
Copper, Dissolved	0.00079J	0.00077J	mg/l	NC		20
Iron, Dissolved	15.2	15.8	mg/l	4		20
Lead, Dissolved	ND	ND	mg/l	NC		20
Magnesium, Dissolved	23.6	23.9	mg/l	1		20
Manganese, Dissolved	7.048	7.413	mg/l	5		20
Nickel, Dissolved	0.08647	0.08966	mg/l	4		20
Potassium, Dissolved	3.47	3.56	mg/l	3		20
Selenium, Dissolved	ND	ND	mg/l	NC		20
Silver, Dissolved	ND	ND	mg/l	NC		20
Sodium, Dissolved	41.2	43.2	mg/l	5		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1372440-4 QC Sample: L2020210-06 Client ID: MW5-200514					
Thallium, Dissolved	0.00041J	0.00151	mg/l	NC	20
Tin, Dissolved	0.0016J	0.0031	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1372440-4 QC Sample: L2020210-06 Client ID: MW5-200514					
Molybdenum, Dissolved	0.00258	0.00299	mg/l	15	20
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1372441-4 QC Sample: L2020210-06 Client ID: MW5-200514					
Mercury, Dissolved	ND	ND	mg/l	NC	20
Dissolved Metals - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1375394-4 QC Sample: L2020210-06 Client ID: MW5-200514					
Titanium, Dissolved	0.08382	0.08678	mg/l	3	20

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2020210-01A	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		TL-6020T(180),FE-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),SN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),MO-6020T(180),A2-TI-6020T(180),CO-6020T(180)
L2020210-01A1	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		TL-6020T(180),FE-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),MO-6020T(180),A2-TI-6020T(180),CO-6020T(180)
L2020210-01A2	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		TL-6020T(180),FE-6020T(180),BA-6020T(180),SE-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SN-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),HG-T(28),AG-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),CO-6020T(180),MO-6020T(180),A2-TI-6020T(180)
L2020210-01B	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-01B1	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-01B2	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-01C	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-01C1	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-01C2	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2020210-02A	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),FE-6020T(180),TL-6020T(180),SE-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),SN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),A2-TI-6020T(180),MO-6020T(180),CO-6020T(180)
L2020210-02A1	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-02A2	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-02B	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-02C	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-03A	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),SE-6020T(180),TL-6020T(180),FE-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),SN-6020T(180),BE-6020T(180),V-6020T(180),SB-6020T(180),AS-6020T(180),CD-6020T(180),AL-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),MO-6020T(180),A2-TI-6020T(180),CO-6020T(180)
L2020210-03A1	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-03A2	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-03B	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-03C	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-04A	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		TL-6020T(180),FE-6020T(180),SE-6020T(180),BA-6020T(180),K-6020T(180),CA-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SN-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),AG-6020T(180),CD-6020T(180),AL-6020T(180),MG-6020T(180),HG-T(28),MO-6020T(180),A2-TI-6020T(180),CO-6020T(180)
L2020210-04A1	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-04A2	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-04B	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-04C	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2020210-05A	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),TL-6020T(180),FE-6020T(180),SE-6020T(180),K-6020T(180),NI-6020T(180),CA-6020T(180),CR-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),SN-6020T(180),BE-6020T(180),SB-6020T(180),V-6020T(180),AS-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),CD-6020T(180),AL-6020T(180),A2-TI-6020T(180),MO-6020T(180),CO-6020T(180)
L2020210-05A1	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-05A2	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-05B	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-05C	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-06A	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		CU-6020S(180),K-6020S(180),V-6020S(180),SE-6020S(180),MN-6020S(180),ZN-6020S(180),MG-6020S(180),BE-6020S(180),CO-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),SN-6020S(180),BA-6020S(180),TL-6020S(180),MO-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),SB-6020S(180),AS-6020S(180),AG-6020S(180),AL-6020S(180),CD-6020S(180),A2-TI-6020S(180),HG-S(28)
L2020210-06A1	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-06A2	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-06B	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		FE-6020T(180),SE-6020T(180),TL-6020T(180),BA-6020T(180),NI-6020T(180),CA-6020T(180),K-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),AG-6020T(180),MG-6020T(180),MO-6020T(180),A2-TI-6020T(180),CO-6020T(180)
L2020210-06C	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-06D	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020210
Report Date: 06/02/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2020210-07A	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		SE-6020T(180),TL-6020T(180),BA-6020T(180),FE-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),SN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),HG-T(28),CD-6020T(180),AG-6020T(180),AL-6020T(180),MG-6020T(180),MO-6020T(180),A2-TI-6020T(180),CO-6020T(180)
L2020210-07A1	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-07A2	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-07B	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-07C	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-08A	Plastic 250ml HNO3 preserved	A	<2	<2	3.3	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),CR-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),MN-6020T(180),SN-6020T(180),BE-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),CD-6020T(180),MG-6020T(180),AG-6020T(180),AL-6020T(180),HG-T(28),MO-6020T(180),A2-TI-6020T(180),CO-6020T(180)
L2020210-08A1	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-08A2	Plastic 500ml HNO3 preserved	NA	NA			Y	Absent		-
L2020210-08B	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)
L2020210-08C	Amber 250ml unpreserved	A	7	7	3.3	Y	Absent		A2-1,4-DIOXANE-SIM(7)

*Values in parentheses indicate holding time in days

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020210
Project Number:	20.0319	**Report Date:**	06/02/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020210
Project Number:	20.0319	**Report Date:**	06/02/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020210
Project Number:	20.0319	**Report Date:**	06/02/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020210
Project Number:	20.0319	**Report Date:**	06/02/20

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5/15/20

ALPHA Job #: L2020210

Client Information

Client: C.T. Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518 786-7400
Fax: —
Email: S.Mark@CTMale.com

Project Information

Project Name: Schuyler Heights Fire District
Project Location: Watervliet, NY
Project # 20.0319
(Use Project name as Project #) ☐
Project Manager: Jeff Mark
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☐ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	1,4 Dioxane	Total Metals	Sample Specific Comments	Total Bottle
20210-01	MW7-200514	5/14/20	1120	GW	KC	X	X	ms/msd	9
-02	MW6-200514	"	1315	"	KC	X	X		3
-03	FD01-200514	"	—	"	KC	X	X		3
-04	MW3-200514	"	1425	"	KC	X	X		3
-05	MW4-200514	"	1540	"	KC	X	X		3
-06	MW5-200514	"	1620	"	KC	X	X	2 metals #2 filtered 12ml	4
-07	MW2-200515	5/15/20	825	"	KC	X	X		3
-08	MW1-200515	"	930	"	KC	X	X		3

Container Type: A P
Preservative: A C

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/15/20 1650	[signature] AAL	5-15-20 10:50
[signature]	5-15-20, 13:00	H. Hicks	5/15/20 1300
H. Hicks	5/15/20 19:15	[signature]	5/15/20 1015

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

ANALYTICAL REPORT

Lab Number:	L2020229
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12210
ATTN:	Jeffrey Marx
Phone:	(518) 786-7548
Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT
Project Number:	20.0319
Report Date:	05/22/20

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020229
Report Date: 05/22/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2020229-01	MW7-200514	WATER	WATERVALIET, NY	05/14/20 11:20	05/15/20
L2020229-02	MW6-200514	WATER	WATERVALIET, NY	05/14/20 13:15	05/15/20
L2020229-03	FD01-200514	WATER	WATERVALIET, NY	05/14/20 00:00	05/15/20
L2020229-04	MW3-200514	WATER	WATERVALIET, NY	05/14/20 14:25	05/15/20
L2020229-05	MW4-200514	WATER	WATERVALIET, NY	05/14/20 15:40	05/15/20
L2020229-06	MW5-200514	WATER	WATERVALIET, NY	05/15/20 07:20	05/15/20
L2020229-07	MW2-200514	WATER	WATERVALIET, NY	05/15/20 08:25	05/15/20
L2020229-08	MW1-200514	WATER	WATERVALIET, NY	05/15/20 09:30	05/15/20
L2020229-09	LAB TRIP BLANK	WATER	WATERVALIET, NY	05/14/20 00:00	05/15/20
L2020229-10	FIELD TRIP BLANK	WATER	WATERVALIET, NY	05/14/20 16:45	05/15/20

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020229
Project Number:	20.0319	**Report Date:**	05/22/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020229
Project Number:	20.0319	**Report Date:**	05/22/20

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 05/22/20

ORGANICS

SEMIVOLATILES

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-01
Client ID: MW7-200514
Sample Location: WATERVALIET, NY

Date Collected: 05/14/20 11:20
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 01:51
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	41.2		ng/l	1.87	0.382	1
Perfluoropentanoic Acid (PFPeA)	84.8		ng/l	1.87	0.371	1
Perfluorobutanesulfonic Acid (PFBS)	27.1		ng/l	1.87	0.223	1
Perfluorohexanoic Acid (PFHxA)	104		ng/l	1.87	0.307	1
Perfluoroheptanoic Acid (PFHpA)	52.8		ng/l	1.87	0.211	1
Perfluorohexanesulfonic Acid (PFHxS)	30.6		ng/l	1.87	0.352	1
Perfluorooctanoic Acid (PFOA)	176		ng/l	1.87	0.221	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	77.7		ng/l	1.87	1.25	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.44	J	ng/l	1.87	0.644	1
Perfluorononanoic Acid (PFNA)	15.0		ng/l	1.87	0.292	1
Perfluorooctanesulfonic Acid (PFOS)	105		ng/l	1.87	0.472	1
Perfluorodecanoic Acid (PFDA)	4.64		ng/l	1.87	0.285	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.87	1.13	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.87	0.607	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.87	0.243	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.87	0.918	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.87	0.543	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.87	0.753	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.87	0.348	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.87	0.306	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.87	0.232	1
PFOA/PFOS, Total	281		ng/l	1.87	0.221	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-01 Date Collected: 05/14/20 11:20

Client ID: MW7-200514 Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	87		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	56		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	83		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	125		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	82		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	129		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	73		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	86		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	48		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	86		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	83		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-02
Client ID: MW6-200514
Sample Location: WATERVALIET, NY

Date Collected: 05/14/20 13:15
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 02:08
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	51.7		ng/l	1.90	0.388	1
Perfluoropentanoic Acid (PFPeA)	118		ng/l	1.90	0.376	1
Perfluorobutanesulfonic Acid (PFBS)	22.5		ng/l	1.90	0.226	1
Perfluorohexanoic Acid (PFHxA)	151		ng/l	1.90	0.312	1
Perfluoroheptanoic Acid (PFHpA)	201		ng/l	1.90	0.214	1
Perfluorohexanesulfonic Acid (PFHxS)	80.6		ng/l	1.90	0.357	1
Perfluorooctanoic Acid (PFOA)	312		ng/l	1.90	0.224	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	11.0		ng/l	1.90	1.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	4.43		ng/l	1.90	0.654	1
Perfluorononanoic Acid (PFNA)	13.9		ng/l	1.90	0.296	1
Perfluorooctanesulfonic Acid (PFOS)	92.6		ng/l	1.90	0.479	1
Perfluorodecanoic Acid (PFDA)	1.94		ng/l	1.90	0.289	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.90	1.15	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.90	0.616	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.90	0.247	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.90	0.932	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.90	0.551	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.90	0.764	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.90	0.354	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.90	0.311	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.90	0.236	1
PFOA/PFOS, Total	405		ng/l	1.90	0.224	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-02 Date Collected: 05/14/20 13:15

Client ID: MW6-200514 Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	47		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	73		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	50		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	67		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	203		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	82		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	148		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	80		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	44		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	81		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	78		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-03
Client ID: FD01-200514
Sample Location: WATERVALIET, NY

Date Collected: 05/14/20 00:00
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 02:24
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	54.6		ng/l	1.93	0.394	1
Perfluoropentanoic Acid (PFPeA)	126		ng/l	1.93	0.382	1
Perfluorobutanesulfonic Acid (PFBS)	23.9		ng/l	1.93	0.230	1
Perfluorohexanoic Acid (PFHxA)	164		ng/l	1.93	0.317	1
Perfluoroheptanoic Acid (PFHpA)	214		ng/l	1.93	0.217	1
Perfluorohexanesulfonic Acid (PFHxS)	87.8		ng/l	1.93	0.363	1
Perfluorooctanoic Acid (PFOA)	340		ng/l	1.93	0.228	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	13.3		ng/l	1.93	1.28	1
Perfluoroheptanesulfonic Acid (PFHpS)	3.74		ng/l	1.93	0.664	1
Perfluorononanoic Acid (PFNA)	15.8		ng/l	1.93	0.301	1
Perfluorooctanesulfonic Acid (PFOS)	92.6		ng/l	1.93	0.486	1
Perfluorodecanoic Acid (PFDA)	2.22		ng/l	1.93	0.293	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.93	1.17	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.93	0.625	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.93	0.251	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.93	0.946	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.93	0.560	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.93	0.776	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.93	0.359	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.93	0.316	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.93	0.239	1
PFOA/PFOS, Total	433		ng/l	1.93	0.228	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-03 Date Collected: 05/14/20 00:00

Client ID: FD01-200514 Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	81		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	45		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	68		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	45		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	61		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	81		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	185		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	90		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	80		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	70		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	147		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	74		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	75		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	42		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	65		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	68		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-04
Client ID: MW3-200514
Sample Location: WATERVALIET, NY

Date Collected: 05/14/20 14:25
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 02:41
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	9.38		ng/l	1.90	0.388	1
Perfluoropentanoic Acid (PFPeA)	11.7		ng/l	1.90	0.376	1
Perfluorobutanesulfonic Acid (PFBS)	2.27		ng/l	1.90	0.226	1
Perfluorohexanoic Acid (PFHxA)	12.9		ng/l	1.90	0.312	1
Perfluoroheptanoic Acid (PFHpA)	11.2		ng/l	1.90	0.214	1
Perfluorohexanesulfonic Acid (PFHxS)	7.46		ng/l	1.90	0.357	1
Perfluorooctanoic Acid (PFOA)	20.9		ng/l	1.90	0.224	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.90	1.27	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.90	0.654	1
Perfluorononanoic Acid (PFNA)	1.86	J	ng/l	1.90	0.296	1
Perfluorooctanesulfonic Acid (PFOS)	19.6		ng/l	1.90	0.479	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.90	0.289	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.90	1.15	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.90	0.616	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.90	0.247	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.90	0.932	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.90	0.551	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.90	0.764	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.90	0.354	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.90	0.311	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.90	0.236	1
PFOA/PFOS, Total	40.5		ng/l	1.90	0.224	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-04 Date Collected: 05/14/20 14:25

Client ID: MW3-200514 Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	82		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	75		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	69		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	75		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	85		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	76		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	80		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	70		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	69		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	67		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	52		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	45		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	64		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	18		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	57		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	57		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	61		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-05
Client ID: MW4-200514
Sample Location: WATERVALIET, NY

Date Collected: 05/14/20 15:40
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 02:58
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	13.0		ng/l	2.08	0.425	1
Perfluoropentanoic Acid (PFPeA)	29.4		ng/l	2.08	0.412	1
Perfluorobutanesulfonic Acid (PFBS)	3.88		ng/l	2.08	0.248	1
Perfluorohexanoic Acid (PFHxA)	33.0		ng/l	2.08	0.342	1
Perfluoroheptanoic Acid (PFHpA)	50.4		ng/l	2.08	0.234	1
Perfluorohexanesulfonic Acid (PFHxS)	29.3		ng/l	2.08	0.392	1
Perfluorooctanoic Acid (PFOA)	119		ng/l	2.08	0.246	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.08	1.39	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.70	J	ng/l	2.08	0.717	1
Perfluorononanoic Acid (PFNA)	13.6		ng/l	2.08	0.325	1
Perfluorooctanesulfonic Acid (PFOS)	41.1		ng/l	2.08	0.525	1
Perfluorodecanoic Acid (PFDA)	0.704	J	ng/l	2.08	0.317	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.08	1.26	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.08	0.675	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.08	0.271	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.08	1.02	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.08	0.604	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.08	0.838	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.08	0.388	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.08	0.341	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.08	0.258	1
PFOA/PFOS, Total	160		ng/l	2.08	0.246	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-05 Date Collected: 05/14/20 15:40

Client ID: MW4-200514 Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	88		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	78		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	67		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	81		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	86		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	165		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	86		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	70		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	68		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	71		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	58		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	30		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	64		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	65		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-06
Client ID: MW5-200514
Sample Location: WATERVALIET, NY

Date Collected: 05/15/20 07:20
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 03:14
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	6.36		ng/l	1.98	0.405	1
Perfluoropentanoic Acid (PFPeA)	4.40		ng/l	1.98	0.393	1
Perfluorobutanesulfonic Acid (PFBS)	0.718	J	ng/l	1.98	0.236	1
Perfluorohexanoic Acid (PFHxA)	4.13		ng/l	1.98	0.325	1
Perfluoroheptanoic Acid (PFHpA)	3.16		ng/l	1.98	0.223	1
Perfluorohexanesulfonic Acid (PFHxS)	5.05		ng/l	1.98	0.373	1
Perfluorooctanoic Acid (PFOA)	15.2		ng/l	1.98	0.234	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.98	1.32	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.10	J	ng/l	1.98	0.682	1
Perfluorononanoic Acid (PFNA)	5.96		ng/l	1.98	0.310	1
Perfluorooctanesulfonic Acid (PFOS)	77.5		ng/l	1.98	0.500	1
Perfluorodecanoic Acid (PFDA)	2.58		ng/l	1.98	0.302	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.98	1.20	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.98	0.643	1
Perfluoroundecanoic Acid (PFUnA)	0.817	J	ng/l	1.98	0.258	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.98	0.972	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.98	0.575	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.98	0.798	1
Perfluorododecanoic Acid (PFDoA)	0.484	J	ng/l	1.98	0.369	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.98	0.325	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.98	0.246	1
PFOA/PFOS, Total	92.7		ng/l	1.98	0.234	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-06 Date Collected: 05/15/20 07:20

Client ID: MW5-200514 Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	77		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	76		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	67		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	71		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	83		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	73		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	100		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	68		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	67		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	63		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	60		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	49		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	67		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	25		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	70		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	58		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-07
Client ID: MW2-200514
Sample Location: WATERVALIET, NY

Date Collected: 05/15/20 08:25
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 03:31
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	42.5		ng/l	1.84	0.376	1
Perfluoropentanoic Acid (PFPeA)	90.5		ng/l	1.84	0.365	1
Perfluorobutanesulfonic Acid (PFBS)	7.65		ng/l	1.84	0.220	1
Perfluorohexanoic Acid (PFHxA)	70.2		ng/l	1.84	0.302	1
Perfluoroheptanoic Acid (PFHpA)	85.0		ng/l	1.84	0.208	1
Perfluorohexanesulfonic Acid (PFHxS)	30.8		ng/l	1.84	0.347	1
Perfluorooctanoic Acid (PFOA)	124		ng/l	1.84	0.218	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	3.07		ng/l	1.84	1.23	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.24	J	ng/l	1.84	0.635	1
Perfluorononanoic Acid (PFNA)	7.84		ng/l	1.84	0.288	1
Perfluorooctanesulfonic Acid (PFOS)	40.3		ng/l	1.84	0.465	1
Perfluorodecanoic Acid (PFDA)	0.812	J	ng/l	1.84	0.280	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	1.44	J	ng/l	1.84	1.12	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.84	0.598	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.84	0.240	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.84	0.904	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.84	0.535	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.84	0.742	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.84	0.343	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.84	0.302	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.84	0.229	1
PFOA/PFOS, Total	164		ng/l	1.84	0.218	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-07 Date Collected: 05/15/20 08:25

Client ID: MW2-200514 Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	91		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	63		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	83		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	58		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	76		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	94		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	91		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	199		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	93		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	86		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	109		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	70		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	45		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	72		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	87		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-08
Client ID: MW1-200514
Sample Location: WATERVALIET, NY

Date Collected: 05/15/20 09:30
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 03:47
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	27.4		ng/l	1.94	0.395	1
Perfluoropentanoic Acid (PFPeA)	40.7		ng/l	1.94	0.384	1
Perfluorobutanesulfonic Acid (PFBS)	3.69		ng/l	1.94	0.231	1
Perfluorohexanoic Acid (PFHxA)	31.5		ng/l	1.94	0.318	1
Perfluoroheptanoic Acid (PFHpA)	24.2		ng/l	1.94	0.218	1
Perfluorohexanesulfonic Acid (PFHxS)	12.1		ng/l	1.94	0.364	1
Perfluorooctanoic Acid (PFOA)	32.2		ng/l	1.94	0.229	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.94	1.29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.94	0.667	1
Perfluorononanoic Acid (PFNA)	1.90	J	ng/l	1.94	0.302	1
Perfluorooctanesulfonic Acid (PFOS)	17.7		ng/l	1.94	0.488	1
Perfluorodecanoic Acid (PFDA)	0.915	J	ng/l	1.94	0.294	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.94	1.17	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.94	0.628	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.94	0.252	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.94	0.950	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.94	0.562	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.94	0.779	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.94	0.360	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.94	0.317	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.94	0.240	1
PFOA/PFOS, Total	49.9		ng/l	1.94	0.229	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-08 Date Collected: 05/15/20 09:30

Client ID: MW1-200514 Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	81		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	80		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	67		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	77		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	87		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	194		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	81		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	75		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	137		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	77		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	37		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	85		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	71		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	72		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-09
Client ID: LAB TRIP BLANK
Sample Location: WATERVALIET, NY

Date Collected: 05/14/20 00:00
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/21/20 23:06
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.92	0.391	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	1.92	0.379	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.92	0.228	1
Perfluorohexanoic Acid (PFHxA)	0.333	J	ng/l	1.92	0.314	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.92	0.216	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.92	0.360	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.92	0.226	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.92	1.28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.92	0.659	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.92	0.299	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.92	0.483	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.92	0.291	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.92	1.16	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.92	0.621	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.92	0.249	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.92	0.939	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.92	0.556	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.92	0.770	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.92	0.356	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.92	0.313	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.92	0.238	1
PFOA/PFOS, Total	ND		ng/l	1.92	0.226	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-09 Date Collected: 05/14/20 00:00

Client ID: LAB TRIP BLANK Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	67		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	77		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	81		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	68		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	73		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	74		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	58		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	69		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	65		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	62		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	47		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	51		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	67		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	25		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	76		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	75		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-10
Client ID: FIELD TRIP BLANK
Sample Location: WATERVALIET, NY

Date Collected: 05/14/20 16:45
Date Received: 05/15/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/21/20 23:23
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/l	1.98	0.403	1
Perfluoropentanoic Acid (PFPeA)	0.518	J	ng/l	1.98	0.391	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	1.98	0.235	1
Perfluorohexanoic Acid (PFHxA)	0.379	J	ng/l	1.98	0.324	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	1.98	0.222	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	1.98	0.372	1
Perfluorooctanoic Acid (PFOA)	ND		ng/l	1.98	0.233	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	1.98	1.32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	1.98	0.680	1
Perfluorononanoic Acid (PFNA)	ND		ng/l	1.98	0.308	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	1.98	0.498	1
Perfluorodecanoic Acid (PFDA)	ND		ng/l	1.98	0.300	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	1.98	1.20	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	1.98	0.640	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	1.98	0.257	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	1.98	0.968	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	1.98	0.573	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	1.98	0.794	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	1.98	0.368	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	1.98	0.323	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	1.98	0.245	1
PFOA/PFOS, Total	ND		ng/l	1.98	0.233	1

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

SAMPLE RESULTS

Lab ID: L2020229-10 Date Collected: 05/14/20 16:45

Client ID: FIELD TRIP BLANK Date Received: 05/15/20

Sample Location: WATERVALIET, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	66		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	76		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	82		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	62		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	67		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	72		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	47		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	68		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	78		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	66		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	48		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	72		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	38		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	49		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	73		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	71		33-143

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 01:02
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10 Batch: WG1372587-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/l	2.00	0.408
Perfluoropentanoic Acid (PFPeA)	ND		ng/l	2.00	0.396
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/l	2.00	0.238
Perfluorohexanoic Acid (PFHxA)	0.372	J	ng/l	2.00	0.328
Perfluoroheptanoic Acid (PFHpA)	ND		ng/l	2.00	0.225
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/l	2.00	0.376
Perfluorooctanoic Acid (PFOA)	ND		ng/l	2.00	0.236
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/l	2.00	1.33
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/l	2.00	0.688
Perfluorononanoic Acid (PFNA)	ND		ng/l	2.00	0.312
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/l	2.00	0.504
Perfluorodecanoic Acid (PFDA)	ND		ng/l	2.00	0.304
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/l	2.00	1.21
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/l	2.00	0.648
Perfluoroundecanoic Acid (PFUnA)	ND		ng/l	2.00	0.260
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/l	2.00	0.980
Perfluorooctanesulfonamide (FOSA)	ND		ng/l	2.00	0.580
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/l	2.00	0.804
Perfluorododecanoic Acid (PFDoA)	ND		ng/l	2.00	0.372
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/l	2.00	0.327
Perfluorotetradecanoic Acid (PFTA)	ND		ng/l	2.00	0.248
PFOA/PFOS, Total	ND		ng/l	2.00	0.236

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT **Lab Number:** L2020229

Project Number: 20.0319 **Report Date:** 05/22/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 05/22/20 01:02
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 05/20/20 07:25

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-10 Batch: WG1372587-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	98		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	94		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	77		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	77		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	83		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	69		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	98		33-143

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT

Project Number: 20.0319

Lab Number: L2020229

Report Date: 05/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1372587-2 WG1372587-3								
Perfluorobutanoic Acid (PFBA)	113		114		67-148	1		30
Perfluoropentanoic Acid (PFPeA)	112		114		63-161	2		30
Perfluorobutanesulfonic Acid (PFBS)	110		109		65-157	1		30
Perfluorohexanoic Acid (PFHxA)	116		120		69-168	3		30
Perfluoroheptanoic Acid (PFHpA)	113		117		58-159	3		30
Perfluorohexanesulfonic Acid (PFHxS)	109		111		69-177	2		30
Perfluorooctanoic Acid (PFOA)	111		111		63-159	0		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	129		137		49-187	6		30
Perfluoroheptanesulfonic Acid (PFHpS)	113		114		61-179	1		30
Perfluorononanoic Acid (PFNA)	112		107		68-171	5		30
Perfluorooctanesulfonic Acid (PFOS)	114		112		52-151	2		30
Perfluorodecanoic Acid (PFDA)	109		99		63-171	10		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	107		101		56-173	6		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	108		120		60-166	11		30
Perfluoroundecanoic Acid (PFUnA)	107		112		60-153	5		30
Perfluorodecanesulfonic Acid (PFDS)	123		130		38-156	6		30
Perfluorooctanesulfonamide (FOSA)	113		117		46-170	3		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	116		112		45-170	4		30
Perfluorododecanoic Acid (PFDoA)	107		122		67-153	13		30
Perfluorotridecanoic Acid (PFTrDA)	120		123		48-158	2		30
Perfluorotetradecanoic Acid (PFTA)	118		110		59-182	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT

Project Number: 20.0319

Lab Number: L2020229

Report Date: 05/22/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 Batch: WG1372587-2 WG1372587-3								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		93		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109		100		16-173
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99		96		31-159
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	97		88		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		88		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	108		99		47-153
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99		88		36-149
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71		64		1-244
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		90		34-146
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	96		85		42-146
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		88		38-144
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	73		72		7-170
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	78		73		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	96		83		40-144
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	60		55		1-87
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	82		70		23-146
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		79		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	94		91		33-143

Matrix Spike Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT

Project Number: 20.0319

Lab Number: L2020229

Report Date: 05/22/20

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1372587-4 WG1372587-5 QC Sample: L2020229-01 Client ID: MW7-200514												
Perfluorobutanoic Acid (PFBA)	41.2	37.7	86.3	120		86.1	120		67-148	0		30
Perfluoropentanoic Acid (PFPeA)	84.8	37.7	129	117		129	118		63-161	0		30
Perfluorobutanesulfonic Acid (PFBS)	27.1	33.4	65.0	113		64.5	113		65-157	1		30
Perfluorohexanoic Acid (PFHxA)	104	37.7	154	133		152	128		69-168	1		30
Perfluoroheptanoic Acid (PFHpA)	52.8	37.7	98.1	120		98.8	123		58-159	1		30
Perfluorohexanesulfonic Acid (PFHxS)	30.6	34.4	72.2	121		66.0	104		69-177	9		30
Perfluorooctanoic Acid (PFOA)	176	37.7	224	127		232	150		63-159	4		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	77.7	35.8	128	140		129	144		49-187	1		30
Perfluoroheptanesulfonic Acid (PFHpS)	1.44J	35.8	44.5	124		46.0	129		61-179	3		30
Perfluorononanoic Acid (PFNA)	15.0	37.7	58.0	114		58.6	116		68-171	1		30
Perfluorooctanesulfonic Acid (PFOS)	105	34.9	141	103		148	124		52-151	5		30
Perfluorodecanoic Acid (PFDA)	4.64	37.7	47.9	115		48.6	117		63-171	1		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	36.2	42.0	116		44.6	124		56-173	6		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	37.7	41.6	110		39.1	104		60-166	6		30
Perfluoroundecanoic Acid (PFUnA)	ND	37.7	43.0	114		43.7	117		60-153	2		30
Perfluorodecanesulfonic Acid (PFDS)	ND	36.4	48.8	134		47.6	132		38-156	2		30
Perfluorooctanesulfonamide (FOSA)	ND	37.7	44.4	118		42.6	114		46-170	4		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	37.7	42.1	112		41.0	109		45-170	3		30
Perfluorododecanoic Acid (PFDoA)	ND	37.7	41.5	110		41.6	111		67-153	0		30
Perfluorotridecanoic Acid (PFTrDA)	ND	37.7	47.7	126		44.4	119		48-158	7		30
Perfluorotetradecanoic Acid (PFTA)	ND	37.7	45.8	121		42.9	115		59-182	7		30

Matrix Spike Analysis

Batch Quality Control

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT ***Lab Number:*** L2020229

Project Number: 20.0319 ***Report Date:*** 05/22/20

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1372587-4 WG1372587-5 QC Sample: L2020229-01 Client ID: MW7-200514												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	141		111		7-170
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	121		107		1-244
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	83		65		23-146
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		69		1-181
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	83		74		40-144
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	80		74		38-144
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	71		65		21-145
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		79		30-139
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	92		93		47-153
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	86		79		24-161
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	82		79		33-143
Perfluoro[13C4]Butanoic Acid (MPFBA)	90		83		2-156
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	56		53		16-173
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	49		44		1-87
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85		74		42-146
Perfluoro[13C8]Octanoic Acid (M8PFOA)	93		81		36-149
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		76		34-146
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		85		31-159

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020229
Report Date: 05/22/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2020229-01A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-01B	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-01C	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-01D	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-01E	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-01F	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-02A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-02B	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-03A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-03B	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-04A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-04B	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-05A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-05B	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-06A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-06B	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-07A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-07B	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-08A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-08B	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-09A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-09B	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)
L2020229-10A	2 Plastic/1 Plastic/1 H20 Plastic	A	NA		3.0	Y	Absent		A2-NY-537-ISOTOPE(14)

*Values in parentheses indicate holding time in days

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Project Number: 20.0319

Lab Number: L2020229
Report Date: 05/22/20

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)

*Values in parentheses indicate holding time in days

Project Name: SCHUYLER HEIGHTS FIRE DISTRICT
Lab Number: L2020229
Project Number: 20.0319
Report Date: 05/22/20

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020229
Project Number:	20.0319	**Report Date:**	05/22/20

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020229
Project Number:	20.0319	**Report Date:**	05/22/20

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration

Report Format: DU Report with 'J' Qualifiers

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020229
Project Number:	20.0319	**Report Date:**	05/22/20

Data Qualifiers

Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers

Project Name:	SCHUYLER HEIGHTS FIRE DISTRICT	**Lab Number:**	L2020229
Project Number:	20.0319	**Report Date:**	05/22/20

REFERENCES

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
EPA TO-12 Non-methane organics
EPA 3C Fixed gases
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 5/15/20

ALPHA Job #: L2020229

Client Information
Client: C.T. Male Associates
Address: 50 Century Hill Dr
Latham, NY 12110
Phone: 518 [illegible] 7400
Fax: —
Email: J.Mark@ctmale.com

Project Information
Project Name: Schuyler Heights Fire District
Project Location: Waterviet, NY
Project #: 20.0319
(Use Project name as Project #)
Project Manager: Jeff Mark
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[ ] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Billing Information
[ ] Same as Client Info
PO #

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
[ ] NJ [ ] NY
[ ] Other:

[ ] These samples have been previously analyzed by Alpha

Other project specific requirements/comments:

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	PFAS	Sample Specific Comments	Total Bottle
2229 -01	MW7-20514	5/14/20	1120	GW	KC	X	MS/MSD	6
-02	MW6-20514		1315		KC	X		2
-03	FD1-20514		—		KC	X		2
-04	MW3-20514		1425		KC	X		2
-05	MW4-20514		1540		KC	X		2
-06	MW5-20515	5/15/20	0720		KC	X		2
-07	MW2-20515		825		KC	X		2
-08	MW1-20515		930		KC	X		2
-09	Lab Trip Blank	5/14/20	—	—	KC	X		2
-10	Field Imp Blank	5/14/20	1645	—	KC	X		1

Container Type: P
Preservative: O

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	5/15/20 1150	Robert Haire AAL	5-15-20 10:50
Robert Haire	5-15-20, 13:00	H. Hicks	5/15/20 13:00
H. Hicks	5/15/20 14:15	[signature]	5/15/20 15:15
[signature]	5/15/20 1942	[signature]	5/15/20 1548

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

5/15/20 2030

5/15/2020 2030

LOCATION				MW1-200514		MW-1	MW2-200514		MW-2	MW3-200514		CTM-3	MW4-200514		CTM-4	MW5-200514	
SAMPLING DATE				5/15/2020		2006	5/15/2020		2006	5/14/2020		2006	5/14/2020		2006	5/14/2020	
LAB SAMPLE ID				L2020210-08		X3873-01	L2020210-07		X3873-02	L2020210-04		X4003-01	L2020210-05		X4003-02	L2020210-06	
SAMPLE TYPE				WATER		WATER	WATER		WATER	WATER		WATER	WATER		WATER	WATER	
	CasNum	NY-AWQS	Units	Results	Qual		Results	Qual		Results	Qual		Results	Qual		Results	Qual
1,4 Dioxane by 8270D-SIM																	
1,4-Dioxane	123-91-1	1 **	ug/l	0.156	U		0.152			0.15	U		0.156	U		0.163	U
Dissolved Metals																	
Aluminum, Dissolved	7429-90-5	NS	ug/l	-	-		-	-		-	-		-	-		8.24	J
Antimony, Dissolved	7440-36-0	3	ug/l	-	-		-	-		-	-		-	-		0.53	J
Arsenic, Dissolved	7440-38-2	25	ug/l	-	-		-	-		-	-		-	-		5.09	
Barium, Dissolved	7440-39-3	1000	ug/l	-	-		-	-		-	-		-	-		150.1	
Calcium, Dissolved	7440-70-2	NS	ug/l	-	-		-	-		-	-		-	-		53300	
Chromium, Dissolved	7440-47-3	50	ug/l	-	-		-	-		-	-		-	-		0.39	J
Cobalt, Dissolved	7440-48-4	NS	ug/l	-	-		-	-		-	-		-	-		10.14	
Copper, Dissolved	7440-50-8	200	ug/l	-	-		-	-		-	-		-	-		0.79	J
Iron, Dissolved	7439-89-6	300	ug/l	-	-		-	-		-	-		-	-		15200	
Magnesium, Dissolved	7439-95-4	35000	ug/l	-	-		-	-		-	-		-	-		23600	
Manganese, Dissolved	7439-96-5	300	ug/l	-	-		-	-		-	-		-	-		7048	
Molybdenum, Dissolved	7439-98-7	NS	ug/l	-	-		-	-		-	-		-	-		2.58	
Nickel, Dissolved	7440-02-0	100	ug/l	-	-		-	-		-	-		-	-		86.47	
Potassium, Dissolved	7440-09-7	NS	ug/l	-	-		-	-		-	-		-	-		3470	
Sodium, Dissolved	7440-23-5	20000	ug/l	-	-		-	-		-	-		-	-		41200	
Thallium, Dissolved	7440-28-0	0.5	ug/l	-	-		-	-		-	-		-	-		0.41	J
Tin, Dissolved	7440-31-5	NS	ug/l	-	-		-	-		-	-		-	-		1.6	J
Titanium, Dissolved	7440-32-6	NS	ug/l	-	-		-	-		-	-		-	-		83.82	
Total Metals																	
Aluminum, Total	7429-90-5	NS	ug/l	308		855	35.9		5.310 U	4.91	J	5.310 U	10	U	5.310	4760	
Antimony, Total	7440-36-0	3	ug/l	4	U	3.170 U	1.29	J	3.170 U	0.46	J	3.170 UJ	3.54	J	18.6 J	1.53	J
Arsenic, Total	7440-38-2	25	ug/l	2.73		3.320 U	0.34	J	3.320 U	0.21	J	3.320 U	0.47	J	3.320	49.39	
Barium, Total	7440-39-3	1000	ug/l	127.2		28.7 J	79.18		22.6 J	138.2		46.9 J	62.58		9.340 J	279.5	
Beryllium, Total	7440-41-7	3	ug/l	0.5	U	0.090 U	0.5	U	0.090 U	0.5	U	0.090 U	0.5	U	0.090	0.43	J
Cadmium, Total	7440-43-9	5	ug/l	0.2	U	0.327 U	0.23		0.327 U	0.32		0.327 U	0.18	J	0.327	4.35	
Calcium, Total	7440-70-2	NS	ug/l	142000		108000	166000		115000	58000		66500	134000		143000 J	77000	
Chromium, Total	7440-47-3	50	ug/l	0.64	J	0.600 J	0.95	J	0.343 U	0.19	J	5.350 U	0.17	J	3.330	15.71	
Cobalt, Total	7440-48-4	NS	ug/l	1.74		0.370 U	2.05		0.370 U	0.48	J	0.370 U	0.66		0.620	232.3	
Copper, Total	7440-50-8	200	ug/l	2		3.640 U	4.11		3.640 U	2.24		3.640 U	18.74		29.8	1567	
Iron, Total	7439-89-6	300	ug/l	6450		2740	278		27.0 U	89.9		27.0 U	42900		10500 J	61200	
Lead, Total	7439-92-1	25	ug/l	1.24		2.180 U	2.51		2.180 U	1	U	2.180 U	3.84		2.180	147.7	
Magnesium, Total	7439-95-4	35000	ug/l	20300		17900	45200		29700	19600		15300	31300		38400 J	31900	
Manganese, Total	7439-96-5	300	ug/l	4435		1790	3960		1880	587.6		32.6	2171		1010 J	9016	
Mercury, Total	7439-97-6	0.7	ug/l	0.2	U	0.03 U	0.2	U	0.03 U	0.2	U	0.0300 U	0.2	U	0.0300	54.49	
Molybdenum, Total	7439-98-7	NS	ug/l	3.63	J	NS	2	U	1.560 U	0.91	J	NS	6	U	NS	67.45	
Nickel, Total	7440-02-0	100	ug/l	2.07		1.560	6.45		NS	5.46		3.390 U	5.8		40.0	2245	
Potassium, Total	7440-09-7	NS	ug/l	5280		8720	8600		8640	2930		5220	12000		16500	5110	
Selenium, Total	7782-49-2	10	ug/l	5	U	3.040 U	5	U	3.040 U	5	U	3.040 U	5	U	3.040	7.59	
Silver, Total	7440-22-4	50	ug/l	0.4	U	1.640 U	0.4	U	1.640 U	0.4	U	3.660 UJ	0.4	U	1.640	13.03	
Sodium, Total	7440-23-5	20000	ug/l	24900		39700	20300		30900	112000		92800	12200		51800	41400	
Thallium, Total	7440-28-0	0.5	ug/l	1	U	3.050 U	1	U	3.050 U	1	U	3.050 U	1	U	3.050	0.39	J
Tin, Total	7440-31-5	NS	ug/l	3	U	NS	3	U	NS	3	U	NS	3	U	NS	3.3	
Titanium, Total	7440-32-6	NS	ug/l	219.4		NS	263.3		NS	89.14		NS	209.7		NS	175.6	
Vanadium, Total	7440-62-2	NS	ug/l	5	U	1.200 J	5	U	0.701 U	5	U	0.701 U	5	U	0.701	21.3	
Zinc, Total	7440-66-6	2000	ug/l	4.02	J	40.5 U	24.16		24.4	49.18		65.7	40.08		22.8	936.4	

Notes

NY-AWQS: New York TOGS 111 Ambient Water Quality Standards criteria reflects all addendum to criteria through June 2004.

** NYSDOH Maximum Contaminant Level (MCL) as of July 30, 2020.

U - The compound was not detected at the indicated concentration.

UJ - Data indicates the presence of a compound that meets the identification criteria; however the result is less than the quantitation limit but greater than zero.

J - Indicates an estimated value.

		SAMPLE ID:	MW1-200514				MW2-200514				MW3-200514				MW4-200514				MW5-200514			
		LAB ID:	L2020229-08				L2020229-07				L2020229-04				L2020229-05				L2020229-06			
		COLLECTION DATE:	5/15/2020				5/15/2020				5/14/2020				5/14/2020				5/15/2020			
		SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER			
		EPA-PFAS-HA																				
ANALYTE	CAS	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTIO																						
Perfluorobutanoic Acid (PFBA)	375-22-4		0.0274		0.00194	0.000395	0.0425		0.00184	0.000376	0.00938		0.0019	0.000388	0.013		0.00208	0.000425	0.00636		0.00198	0.000405
Perfluoropentanoic Acid (PFPeA)	2706-90-3		0.0407		0.00194	0.000384	0.0905		0.00184	0.000365	0.0117		0.0019	0.000376	0.0294		0.00208	0.000412	0.0044		0.00198	0.000393
Perfluorobutanesulfonic Acid (PFBS)	375-73-5		0.00369		0.00194	0.000231	0.00765		0.00184	0.00022	0.00227		0.0019	0.000226	0.00388		0.00208	0.000248	0.000718	J	0.00198	0.000236
Perfluorohexanoic Acid (PFHxA)	307-24-4		0.0315		0.00194	0.000318	0.0702		0.00184	0.000302	0.0129		0.0019	0.000312	0.033		0.00208	0.000342	0.00413		0.00198	0.000325
Perfluoroheptanoic Acid (PFHpA)	375-85-9		0.0242		0.00194	0.000218	0.085		0.00184	0.000208	0.0112		0.0019	0.000214	0.0504		0.00208	0.000234	0.00316		0.00198	0.000223
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4		0.0121		0.00194	0.000364	0.0308		0.00184	0.000347	0.00746		0.0019	0.000357	0.0293		0.00208	0.000392	0.00505		0.00198	0.000373
Perfluorooctanoic Acid (PFOA)	335-67-1	0.07	0.0322		0.00194	0.000229	0.124		0.00184	0.000218	0.0209		0.0019	0.000224	0.119		0.00208	0.000246	0.0152		0.00198	0.000234
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2		ND		0.00194	0.00129	0.00307		0.00184	0.00123	ND		0.0019	0.00127	ND		0.00208	0.00139	ND		0.00198	0.00132
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8		ND		0.00194	0.000667	0.00124	J	0.00184	0.000635	ND		0.0019	0.000654	0.0017	J	0.00208	0.000717	0.0011	J	0.00198	0.000682
Perfluorononanoic Acid (PFNA)	375-95-1		0.0019	J	0.00194	0.000302	0.00784		0.00184	0.000288	0.00186	J	0.0019	0.000296	0.0136		0.00208	0.000325	0.00596		0.00198	0.00031
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.07	0.0177		0.00194	0.000488	0.0403		0.00184	0.000465	0.0196		0.0019	0.000479	0.0411		0.00208	0.000525	0.0775		0.00198	0.0005
Perfluorodecanoic Acid (PFDA)	335-76-2		0.000915	J	0.00194	0.000294	0.000812	J	0.00184	0.00028	ND		0.0019	0.000289	0.000704	J	0.00208	0.000317	0.00258		0.00198	0.000302
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4		ND		0.00194	0.00117	0.00144	J	0.00184	0.00112	ND		0.0019	0.00115	ND		0.00208	0.00126	ND		0.00198	0.0012
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9		ND		0.00194	0.000628	ND		0.00184	0.000598	ND		0.0019	0.000616	ND		0.00208	0.000675	ND		0.00198	0.000643
Perfluoroundecanoic Acid (PFUnA)	2058-94-8		ND		0.00194	0.000252	ND		0.00184	0.00024	ND		0.0019	0.000247	ND		0.00208	0.000271	0.000817	J	0.00198	0.000258
Perfluorodecanesulfonic Acid (PFDS)	335-77-3		ND		0.00194	0.00095	ND		0.00184	0.000904	ND		0.0019	0.000932	ND		0.00208	0.00102	ND		0.00198	0.000972
Perfluorooctanesulfonamide (FOSA)	754-91-6		ND		0.00194	0.000562	ND		0.00184	0.000535	ND		0.0019	0.000551	ND		0.00208	0.000604	ND		0.00198	0.000575
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6		ND		0.00194	0.000779	ND		0.00184	0.000742	ND		0.0019	0.000764	ND		0.00208	0.000838	ND		0.00198	0.000798
Perfluorododecanoic Acid (PFDoA)	307-55-1		ND		0.00194	0.00036	ND		0.00184	0.000343	ND		0.0019	0.000354	ND		0.00208	0.000388	0.000484	J	0.00198	0.000369
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8		ND		0.00194	0.000317	ND		0.00184	0.000302	ND		0.0019	0.000311	ND		0.00208	0.000341	ND		0.00198	0.000325
Perfluorotetradecanoic Acid (PFTA)	376-06-7		ND		0.00194	0.00024	ND		0.00184	0.000229	ND		0.0019	0.000236	ND		0.00208	0.000258	ND		0.00198	0.000246
PFOA/PFOS, Total	NA	0.07	0.0499		0.00194	0.000229	0.164		0.00184	0.000218	0.0405		0.0019	0.000224	0.16		0.00208	0.000246	0.0927		0.00198	0.000234

Notes
EPA-PFAS-HA: PFOA & PFOS Health Advisories in Drinking Water Criteria per US EPA Fact Sheet, November 2016.
J - Is a lab qualifier (Q) that indicates an estimated value.
Yellow highlighting denotes exceedance of EPA-PFAS-HA.
ND - Indicates not detected above the limit of laboratory detection.

		SAMPLE ID:	MW6-200514				FD01-200514				MW7-200514				LAB TRIP BLANK				FIELD TRIP BLANK			
		LAB ID:	L2020229-02				L2020229-03				L2020229-01				L2020229-09				L2020229-10			
		COLLECTION DATE:	5/14/2020				5/14/2020				5/14/2020				5/14/2020				5/14/2020			
		SAMPLE DEPTH:																				
		SAMPLE MATRIX:	WATER				WATER				WATER				WATER				WATER			
		EPA-PFAS-HA																				
ANALYTE	CAS	(ug/l)	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL	Conc	Q	RL	MDL
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTIO																						
Perfluorobutanoic Acid (PFBA)	375-22-4		0.0517		0.0019	0.000388	0.0546		0.00193	0.000394	0.0412		0.00187	0.000382	ND		0.00192	0.000391	ND		0.00198	0.000403
Perfluoropentanoic Acid (PFPeA)	2706-90-3		0.118		0.0019	0.000376	0.126		0.00193	0.000382	0.0848		0.00187	0.000371	ND		0.00192	0.000379	0.000518	J	0.00198	0.000391
Perfluorobutanesulfonic Acid (PFBS)	375-73-5		0.0225		0.0019	0.000226	0.0239		0.00193	0.00023	0.0271		0.00187	0.000223	ND		0.00192	0.000228	ND		0.00198	0.000235
Perfluorohexanoic Acid (PFHxA)	307-24-4		0.151		0.0019	0.000312	0.164		0.00193	0.000317	0.104		0.00187	0.000307	0.000333	J	0.00192	0.000314	0.000379	J	0.00198	0.000324
Perfluoroheptanoic Acid (PFHpA)	375-85-9		0.201		0.0019	0.000214	0.214		0.00193	0.000217	0.0528		0.00187	0.000211	ND		0.00192	0.000216	ND		0.00198	0.000222
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4		0.0806		0.0019	0.000357	0.0878		0.00193	0.000363	0.0306		0.00187	0.000352	ND		0.00192	0.00036	ND		0.00198	0.000372
Perfluorooctanoic Acid (PFOA)	335-67-1	0.07	0.312		0.0019	0.000224	0.34		0.00193	0.000228	0.176		0.00187	0.000221	ND		0.00192	0.000226	ND		0.00198	0.000233
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2		0.011		0.0019	0.00127	0.0133		0.00193	0.00128	0.0777		0.00187	0.00125	ND		0.00192	0.00128	ND		0.00198	0.00132
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8		0.00443		0.0019	0.000654	0.00374		0.00193	0.000664	0.00144	J	0.00187	0.000644	ND		0.00192	0.000659	ND		0.00198	0.00068
Perfluorononanoic Acid (PFNA)	375-95-1		0.0139		0.0019	0.000296	0.0158		0.00193	0.000301	0.015		0.00187	0.000292	ND		0.00192	0.000299	ND		0.00198	0.000308
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.07	0.0926		0.0019	0.000479	0.0926		0.00193	0.000486	0.105		0.00187	0.000472	ND		0.00192	0.000483	ND		0.00198	0.000498
Perfluorodecanoic Acid (PFDA)	335-76-2		0.00194		0.0019	0.000289	0.00222		0.00193	0.000293	0.00464		0.00187	0.000285	ND		0.00192	0.000291	ND		0.00198	0.0003
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4		ND		0.0019	0.00115	ND		0.00193	0.00117	ND		0.00187	0.00113	ND		0.00192	0.00116	ND		0.00198	0.0012
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9		ND		0.0019	0.000616	ND		0.00193	0.000625	ND		0.00187	0.000607	ND		0.00192	0.000621	ND		0.00198	0.00064
Perfluoroundecanoic Acid (PFUnA)	2058-94-8		ND		0.0019	0.000247	ND		0.00193	0.000251	ND		0.00187	0.000243	ND		0.00192	0.000249	ND		0.00198	0.000257
Perfluorodecanesulfonic Acid (PFDS)	335-77-3		ND		0.0019	0.000932	ND		0.00193	0.000946	ND		0.00187	0.000918	ND		0.00192	0.000939	ND		0.00198	0.000968
Perfluorooctanesulfonamide (FOSA)	754-91-6		ND		0.0019	0.000551	ND		0.00193	0.00056	ND		0.00187	0.000543	ND		0.00192	0.000556	ND		0.00198	0.000573
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6		ND		0.0019	0.000764	ND		0.00193	0.000776	ND		0.00187	0.000753	ND		0.00192	0.00077	ND		0.00198	0.000794
Perfluorododecanoic Acid (PFDoA)	307-55-1		ND		0.0019	0.000354	ND		0.00193	0.000359	ND		0.00187	0.000348	ND		0.00192	0.000356	ND		0.00198	0.000368
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8		ND		0.0019	0.000311	ND		0.00193	0.000316	ND		0.00187	0.000306	ND		0.00192	0.000313	ND		0.00198	0.000323
Perfluorotetradecanoic Acid (PFTA)	376-06-7		ND		0.0019	0.000236	ND		0.00193	0.000239	ND		0.00187	0.000232	ND		0.00192	0.000238	ND		0.00198	0.000245
PFOA/PFOS, Total	NA	0.07	0.405		0.0019	0.000224	0.433		0.00193	0.000228	0.281		0.00187	0.000221	ND		0.00192	0.000226	ND		0.00198	0.000233

Notes:
EPA-PFAS-HA: PFOA & PFOS Health Advisories in Drinking Water Criteria per US EPA Fact Sheet, November 2016.
J - Is a lab qualifier (Q) that indicates an estimated value.
Yellow highlighting denotes exceedance of EPA-PFAS-HA.
ND - Indicates not detected above the limit of laboratory detection.

New York Works
Schuyler Heights Fire District Station
House Site
NYSDEC Site Number E401050
Cover Inspection Form

Time: 3:00 pm

Date: April 29, 2020

Weather Conditions: Cloudy, 60 degrees

Were Photographs Taken ?: Yes

Inspection Checklist:

A. Soil Cover:

The soil cover shall be inspected by traversing it and examining it for the following:

		Yes	No
1.	Is there bare ground, or dead or damaged vegetation?	___	X
2.	Are there cracks, subsidence, or holes in the ground surface?	___	X
3.	Is there evidence of burrowing by animals?	___	X
4.	Is there disturbance of the vegetated surface material?	___	X
5.	Is there any erosion damage to vegetated areas?	___	X
6.	Is there discoloration or evidence of spills on the surface?	___	X
7.	Is there other evidence of disturbance to the area?	___	X
8.	Is there debris or trash present?	___	X

Comments *(Explanation required for each Yes answer in Section A):*

B. Gravel Cover:

The gravel cover shall be inspected by traversing it and examining it for the following:

		Yes	No
1.	Are there ruts or holes in, or subsidence of the gravel?	___	X
2.	Is there evidence of burrowing by animals?	___	X
3.	Is there debris or trash present?	___	X
4.	Is there any erosion damage to the gravel surface?	___	X
5.	Is there discoloration or evidence of spills on the surface?	___	X
6.	Is there other evidence of disturbance to the area?	___	X

Comments (*Explanation required for each Yes answer in Section B):*

C. Site Drainage

The perimeter of the Site near adjacent properties shall be inspected by traversing the area and examining it for the following:

		Yes	No
1.	Is there any erosion damage?	___	X
2.	Is there debris blocking drainage pathways?	___	X
3.	Is there evidence of ponding or puddling of water?	___	X

Comments *(Explanation required for each Yes answer in Section C):*

General Comments, Site Notes and Observations of Activities on Adjacent Parcels Which Could Interact With the Work:

The site is in stable condition with no on-going or past erosion. There is no surface water in the swale at the site nor does it appear that stormwater collects in the swale. The well (MW-1), closest to the entrance and in the gravel parking area, was damaged and bent over.

Signature:

Inspector	Date	Organization
Jeffrey A. Mays	April 29, 2020	C.T. Male Associates

IMG_20200429_152115309.jpg
04/29/2020

IMG_20200429_152117800.jpg
04/29/2020

IMG_20200429_152120385.jpg
04/29/2020

IMG_20200429_152122093.jpg
04/29/2020

IMG_20200429_152128968.jpg
04/29/2020

IMG_20200429_152333113.jpg
04/29/2020

IMG_20200429_152336027.jpg
04/29/2020

IMG_20200429_152512917.jpg
04/29/2020

IMG_20200429_152543841.jpg
04/29/2020


IMG_20200429_152545383.jpg
04/29/2020


IMG_20200429_152546971.jpg
04/29/2020


IMG_20200429_152650003.jpg
04/29/2020


IMG_20200429_152652763.jpg
04/29/2020


IMG_20200429_152654555.jpg
04/29/2020


IMG_20200429_152741675.jpg
04/29/2020


IMG_20200429_152744092.jpg
04/29/2020


IMG_20200429_152823326.jpg
04/29/2020


IMG_20200429_153325281.jpg
04/29/2020


IMG_20200429_153421714.jpg
04/29/2020


IMG_20200429_153615959.jpg
04/29/2020


IMG_20200429_153618785.jpg
04/29/2020


IMG_20200429_153621536.jpg
04/29/2020


IMG_20200429_153802254.jpg
04/29/2020


IMG_20200429_153804430.jpg
04/29/2020


IMG_20200429_153912963.jpg
04/29/2020


IMG_20200429_154001593.jpg
04/29/2020


IMG_20200429_154003881.jpg
04/29/2020

IMG_20200429_154051362.jpg
04/29/2020

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. E401050

Site Name Proposed Schuyler Heights Fire District Site

Site Address: 849 First Street Zip Code: 12189
City/Town: Watervliet
County: Albany
Site Acreage: 7.512

Reporting Period: December 07, 2018 to April 07, 2020

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Not Applicable

Signature of Owner, Remedial Party or Designated Representative Date

SITE NO. E401050 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
44.11-1-50.1	Schuyler Heights Fire District	Ground Water Use Restriction Landuse Restriction Site Management Plan IC/EC Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
44.11-1-50.1	Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Not Applicable

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. E401050

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Mark DiPofi (print name) at 900 1st Street, Watervliet, NY 12189 (print business address),

am certifying as Schuyler Heights Fire District (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Mark DiPofi Chairman — Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

10/27/2020 — Date

IC/EC CERTIFICATIONS

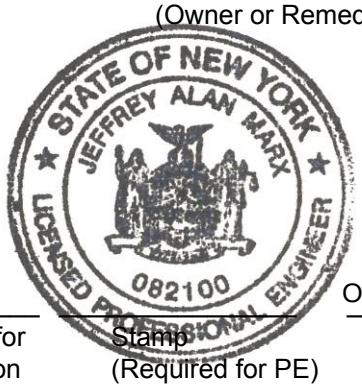
Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jeffrey A. Marx, PE (print name) at C.T. Male Associates Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C., 50 Century Hill Dr., Latham, New York 12110 (print business address),

am certifying as a Qualified Environmental Professional for the Schuyler Heights Fire District (Owner or Remedial Party)



Jeffrey A. Marx — October 5, 2020

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date