2020 SITE MANAGEMENT REPORT DRAFT

MAHOPAC BUSINESS DISTRICT WELLS SITE
VILLAGE OF MAHOPAC, NEW YORK 10541

NYSDEC Site No. 340013
Work Assignment No. D009812-04.01

Prepared for:

NEW YORK STATE OF OPPORTUNITY. Department of Environmental Conservation

Division of Environmental Remediation
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MARCH 2021

TRC Project No. 386554

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ACRONYMS AND ABBREVIATIONS

ASP-B	Analytical Services Protocol – Category B Deliverables
DER	Department of Environmental Remediation
DUSRs	Data Usability Summary Reports
EC	Engineering Control
EDD	Electronic Data Deliverable
Eurofins/TestAmerica	Eurofins/TestAmerica Laboratories of Amherst, New York
Feet bgs	Feet below ground surface
GPS	Global Positioning System
IC	Institutional Control
IHWDS	Inactive Hazardous Waste Disposal Site
LDPE	Low-Density Polyethylene
ng/L	nanograms per liter
NYSDEC	New York State Department of Environmental Conservation
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluoroctanesulfonic Acid
POET	Point of Entry Treatment
PVC	Poly-Vinyl Chloride
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
RA	Remedial Action
ROD	Record of Decision
SCG	Standard Criteria and Guidance
SIM	Selective Ion Monitoring
SMP	Site Management Plan
SMR	Site Management Report
TCL	Target Compound List
TICs	Tentatively Identified Compounds
TOC	Top of Casing
TOR	Top of Riser
TRC	TRC Engineers, Inc.
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compounds
WA	Work Assignment

Executive Summary

Category	Summary/Results
Site Classification	The Site is currently classified as a Class 4 IHWDS.
Site Management Plan	No known SMP exists for the Site. A Monitoring Plan dated December 2004 exists in the Site records.
Required Site Management Activities	None, no known SMP exists for the Site. The December 2004 Monitoring Plan recommended quarterly groundwater sampling for a period of two years.
Engineering Control	On-Site monitoring wells and off-Site POET systems currently exist in association with the Site.
Institutional Control	No known ICs exist for the Site.
Reporting Period	The site management activities described within this SMR took place between August to October 2020.
Prior PRR/SMR Recommendations	No prior PRR/SMRs were available for review.
Site Management Activities	A field inspection was completed on August 21, 2020 to determine the condition of the site and associated monitoring wells. One round of groundwater level measurements and samples were collected between October 21 and 23, 2020. Groundwater samples were collected from 5 of 10 monitoring wells and submitted for laboratory analysis of TCL VOCs + 10 TICs, PFAS, and 1,4-dioxane. Sewer samples were collected from 5 of 6 locations and submitted for laboratory analysis of TCL VOCs. Locations MW-01S/I, MW-03S, and MW-05I could not be located during the field event. The cover of one well at the MW-06 location could not be removed and therefore, a sample could not be collected, and physical measurements of the well could not be determined.
Significant Findings or Concerns	Monitoring wells MW-01S/I, MW-03S, and MW-05I could not be located. The cover for one depth interval of MW-06 is damaged and cannot be opened.
Recommendations	Site COCs, tetrachloroethene and its main breakdown daughter compounds (trichloroethene, cis-1,2-dichloroethene, and vinyl chloride), were not detected above laboratory reporting limits in any groundwater sample analyses. This is consistent with results found in limited available historical groundwater sampling records. As a result, it is recommended that no further action be taken with respect to chlorinated VOCs in groundwater. 1,4-dioxane was not detected in any groundwater sample analyses, and it is recommended that no further action be taken with respect to this compound. Due to elevated PFOA and PFOS concentrations detected in all groundwater samples analyzed, it is recommended that monitoring for these substances continue at a frequency determined by the NYSDEC. As groundwater sampling is recommended to continue, the flush-mount well covers for monitoring wells MW-02S/I/D and MW-03I should also be replaced with modern water tight collars and lids.

1.0 Introduction

This Site Management Report (SMR) has been prepared for the Mahopac Business District Wells Site (referred to as "the Site") and covers the period February 27, 2020, through December 31, 2020. This SMR has been prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC or the "Department") Division of Environmental Remediation (DER) Work Assignment (WA) No. D009812-04.01 Notice to Proceed dated February 27, 2020, the NYSDEC-approved Scope of Work dated July 20, 2020 (WA No. D009812-04.01) and NYSDEC DER-10, Technical Guidance for Site Investigation and Remediation (DER-10). A summary of the Site and applicable remedial programs is included below.

Site Information			
Site Name:	Mahopac Business District Wells	**NYSDEC Site No:**	340013
Site Location:	Intersection of Routes 6 and 6N, Village of Mahopac, Putnam County, New York	**Remedial Program:**	Inactive Hazardous Waste Disposal Site
Site Type:	Commercial	**Classification:**	04
Parcel Identification(s):	Reported Site boundaries are Route 6, Route 6N, and Cherry Lane	**Parcel Acreage / EE Acreage:**	6 / Not applicable
Selected Remedy:	Alternative water supply from Lake Mahopac, removal of contaminated sanitary sewer sediments, groundwater monitoring, and POET systems	**Site COC(s):**	• VOCs
Current Remedial Program Phase:	Post RA Site Monitoring; Site Management	**Institutional Controls:**	• ROD (1990) • Monitoring Plan (2004)
Post-Remediation Monitoring and Sampling Frequency:	Not applicable	**Engineering Controls:**	• Monitoring wells • POET systems
Monitoring Locations:	Groundwater monitoring wells (10) Sewer trench wells (5)	**Required Reporting**	Not applicable

The Site Location Map and Groundwater Monitoring Map are provided on **Figures 1** and **2**, respectively. A detailed Site history, including the dates and descriptions of significant events, and a Custodial Record detailing known and available Site reports, is included in **Appendix A**.

2.0 Site Management and Monitoring Activities

On August 21, 2020, a site inspection was completed to document general site conditions and to evaluate the status of the environmental sampling network.

From October 21 to 23, 2020, TRC completed monitoring activities at the Site, including collection of groundwater samples from five groundwater monitoring wells (MW-02S/I/D, MW-03I, and MW-06) and five sewer trench monitoring wells (MW-04S, MW-08S, MW-09S, MW-10S, and MW-11S). A second flush-mount well cover at location MW-06 could not be removed, therefore this well could not be sampled and the physical measurements (i.e. total well depth) could not be determined. A summary of TRC's August and October 2020 site management field activities can be found in the table below.

Summary of 2020 Site Management Activities
August 21 and October 21 to 23, 2020

Site Management Activity	Summary of Results	Maintenance/Corrective Measure
Site wide inspection (August 21, 2020)	Six of 10 monitoring wells locations were identified. Monitoring wells MW-03S, MW-05I, and MW-01S/I could not be located. MW-04S, MW-08S, MW-09S, MW-10S, and MW-11S were identified as open sewer wells. Two unidentified monitoring wells were found around the Lakeside Auto Service Center. Per the Service Center Manager, these wells were installed by his company in response to a historical petroleum spill.	Surface casings and manholes for monitoring wells MW-02S/I/D and MW-03I were found to be in poor condition and not water tight.
Groundwater gauging and sampling (October 21 to 23, 2020)	Five monitoring wells and five sewer trench well locations were sampled by TRC. One of two wells at the MW-06 location could not be opened and could not be sampled. Samples collected from the five groundwater monitoring wells were submitted to Eurofins/TestAmerica for TCL VOCs + TICs, PFAS, and 1,4-dioxane by USEPA Methods 8260, 537 modified, and 8270 SIM, respectfully. Samples collected from the five sewer trench well locations were submitted to Eurofins/TestAmerica for TCL VOCs only.	All monitoring wells were found to be relatively poor condition and not water tight. Unbolted manholes and loose gripper plugs were issues identified at all monitoring well locations. Additionally, dedicated groundwater sampling materials including bailers, rope, and tubing was found in all wells. The installation date of these materials is unknown.

3.0 Groundwater Monitoring Summary

3.1 Groundwater Gauging

On October 21, 2020, Site related monitoring wells that could be located and opened were gauged for depth to groundwater to determine potentiometric surface information. Groundwater elevations and apparent potentiometric surface contours could not be determined as the relevant top of casing (TOC) and top of riser (TOR) elevations are unknown. Of the five gauged monitoring wells, depth to groundwater ranged from 3.87 feet below TOC (MW-06) to 4.97 feet below TOC (MW-02D). A summary of groundwater gauging measurements can be found in **Table 1**.

3.2 Groundwater Sampling

From October 21 to 23, 2020, groundwater samples were collected from five monitoring wells (MW-02S/I/D, MW-03I, and one well located at MW-06 (suspected to be the intermediate interval based comparable total depth with MW-02I) utilizing United States Environmental Protection Agency (USEPA) low-flow sampling techniques. Groundwater samples were collected from the five sewer locations monitoring wells (MW-04S, MW-08S, MW-09S, MW-10S, and MW-11S) utilizing disposable bailers. Additionally, all locations were geo-located in the field utilizing a handheld global positioning system (GPS) device. Daily field reports and groundwater sampling logs can be found in **Appendices B** and **C**, respectively.

The five groundwater and five sewer samples, in addition to standard quality assurance/quality control (QA/QC) samples collected at the frequencies specified in TRC's July 2020 Generic Quality Assurance Project Plan (QAPP), were submitted to the NYSDEC Callout laboratory, Eurofins/TestAmerica Laboratories of Amherst, New York (Eurofins/TestAmerica), for the following analyses:

- Groundwater samples (MW-02S/I/D, MW-03I, and MW-06):
  - Target Compound List (TCL) Volatile Organic Compounds (VOCs) + 10 Tentatively Identified Compounds (TICs) by USEPA Method 8260;
  - Per- and Polyfluoroalkyl Substances (PFAS) by USEPA Method 537 modified; and
  - 1,4-Dioxane by USEPA Method 8270 selective ion monitoring (SIM).
- Sewer trench well samples (MW-04S, MW-08S, MW-09S, MW-10S, and MW-11S):
  - TCL VOCs + 10 TICs by USEPA Method 8260.

A summary of the groundwater sampling information and pertinent details for each location is presented below:

Summary of Groundwater Monitoring and Sampling Activities
October 2020

	Monitoring Well Details				2020 Groundwater Sampling Event		
Well ID	Latitude	Longitude	DTB (ft. below TOC)	Unit screened	DTW (ft. below TOC)	Analyses	Notes
MW-01S	NA	NA	NA	Overburden	NA	NA	Unable to Locate
MW-01I	NA	NA	NA	Bedrock	NA	NA	Unable to Locate
MW-02S	41.37223496	73.73621233	19.29	Overburden	4.79	TCL VOCs, PFAS, 1,4-Dioxane	
MW-02I	41.37225253	73.73620407	48.06	Bedrock	4.38	TCL VOCs, PFAS, 1,4-Dioxane	
MW-02D	41.37224017	73.73620066	337.8	Bedrock	4.97	TCL VOCs, PFAS, 1,4-Dioxane	
MW-03S	NA	NA	NA	Overburden	NA	NA	Unable to Locate
MW-03I	41.37262378	73.73518508	65.49	Bedrock	4.02	TCL VOCs, PFAS, 1,4-dioxane	
MW-04S	41.37367328	73.73591504	NA	Sewer	NA	TCL VOCs	
MW-05I	NA	NA	NA	Bedrock	NA	NA	Unable to Locate
MW-06	41.37165675	73.73672423	45.1	Overburden / Bedrock	3.87	TCL VOCs, PFAS, 1,4-Dioxane	Suspected to be the I interval based on comparable depth to MW-02I
MW-06	41.37165675	73.73672423	NA	Overburden / Bedrock	NA	NA	Unable to open this well
MW-08S	41.37176701	73.73541263	NA	Sewer	NA	TCL VOCs	
MW-09S	41.37151687	73.73663315	NA	Sewer	NA	TCL VOCs	
MW-10S	41.37197185	73.73662294	NA	Sewer	NA	TCL VOCs	
MW-11S	41.37230532	73.73492985	NA	Sewer	NA	TCL VOCs	

Notes:
DTW – Depth to water.
DTB – Depth to bottom.
Ft. bgs – feet below ground surface.
ft. below TOC – Feet below top of casing
NA - Not applicable.
PFAS – Per- and polyfluoroalkyl substances.
TCL – Target Compound List.
VOCs – Volatile organic compounds.

3.3 Groundwater Analysis and Results

Groundwater analytical data for VOCs, PFAS, and 1,4-dioxane are summarized in **Table 2**. The laboratory analytical summary report and data usability summary reports (DUSRs) (for the associated Analytical Services Protocol-Category B (ASP-B) laboratory reports) can be found in **Appendices D** and **E**, respectively. Detected compounds exceeding their respective NYSDEC Class GA or Guidance Values for each well are illustrated on **Figure 2**. A summary of the exceeding October 2020 groundwater analytical results is below:

Exceedance Summary of Laboratory Analytical Results in Groundwater
October 2020

Constituent	Guidance Value/ Standard	Detected Concentration Range	Location with Highest Detection	Frequency Exceeding Class GA Value
VOCs (µg/L)				
Methylene Chloride	5*	ND – 6.3 J	MW-09S	1/10
Toluene	5*	ND – 5.5	MW-11S	1/10
PFAS (ng/L)				
Perfluoropentanoic acid (PFPeA)	100**	3.0 – 180	MW-02I	1/5
Perfluorooctanoic acid (PFOA)	10**	26 – 78	MW-02I	5/5
Perfluorooctanesulfonic acid (PFOS)	10**	11 – 46	MW-02S	5/5

Notes:
µg/L – micrograms per liter.
ng/L – nanograms per liter.
J – Estimated value.
ND – Not detected above the specified quantitation limit.
PFAS – Per- and polyfluoroalkyl substances.
VOCs – Volatile organic compounds.
* - NYSDEC Ambient Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.
** - Guidelines for Sampling and Analysis of PFAS, NYSDEC Part 375 Remedial Programs, October 2020.

4.0 Conclusions and Recommendations

The following conclusions and recommendations are based on the findings of the site management activities completed during August and October 2020, as well as a review of information obtained from available historical documents.

4.1 Conclusions

Groundwater

- VOCs were either not detected above laboratory quantitation limits or were detected at concentrations below their respective Class GA Values.
- 1,4-dioxane was not detected in any groundwater sample submitted for analysis.
- Various PFAS compounds were detected in all collected samples. Of these analytes, perfluorooctanoic acid (PFOA) and perfluoroctanesulfonic acid (PFOS) were detected above their respective Guidance Values of 10 nanograms per liter (ng/L) in all samples. Total detected PFAS did not exceed its respective October 2020 Guidance Value of 500 ng/L in any sample.
    - Potential conditions leading to PFAS detection biases were found in all wells and included: 1) All monitoring wells were found to not be properly secured or water tight. It is unknown if the surface application of roadway materials (i.e. salt, asphalt sealer, paint, etc.) infiltrated into the wells. 2) Formerly used dedicated groundwater sampling materials including bailers, string, and tubing was found in all wells. The chemical composition of these materials (i.e. nylon, low-density polyethylene (LDPE), poly-vinyl chloride (PVC), etc.) has not been determined.

Sewer Trench Wells

- Of the five sewer water samples submitted for analysis, only two VOCs exceeded their respective Class GA Values. In the sample collected from MW-9S, methylene chloride was detected at a concentration of 6.3 micrograms per liter (µg/L) which slightly exceeds its respective Class GA Value of 5 µg/L. In the sample collected from MW-11S, toluene was detected at a concentration of 5.5 µg/L, which also slightly exceeds its respective Class GA Value of 5 µg/L.

4.2 Recommendations

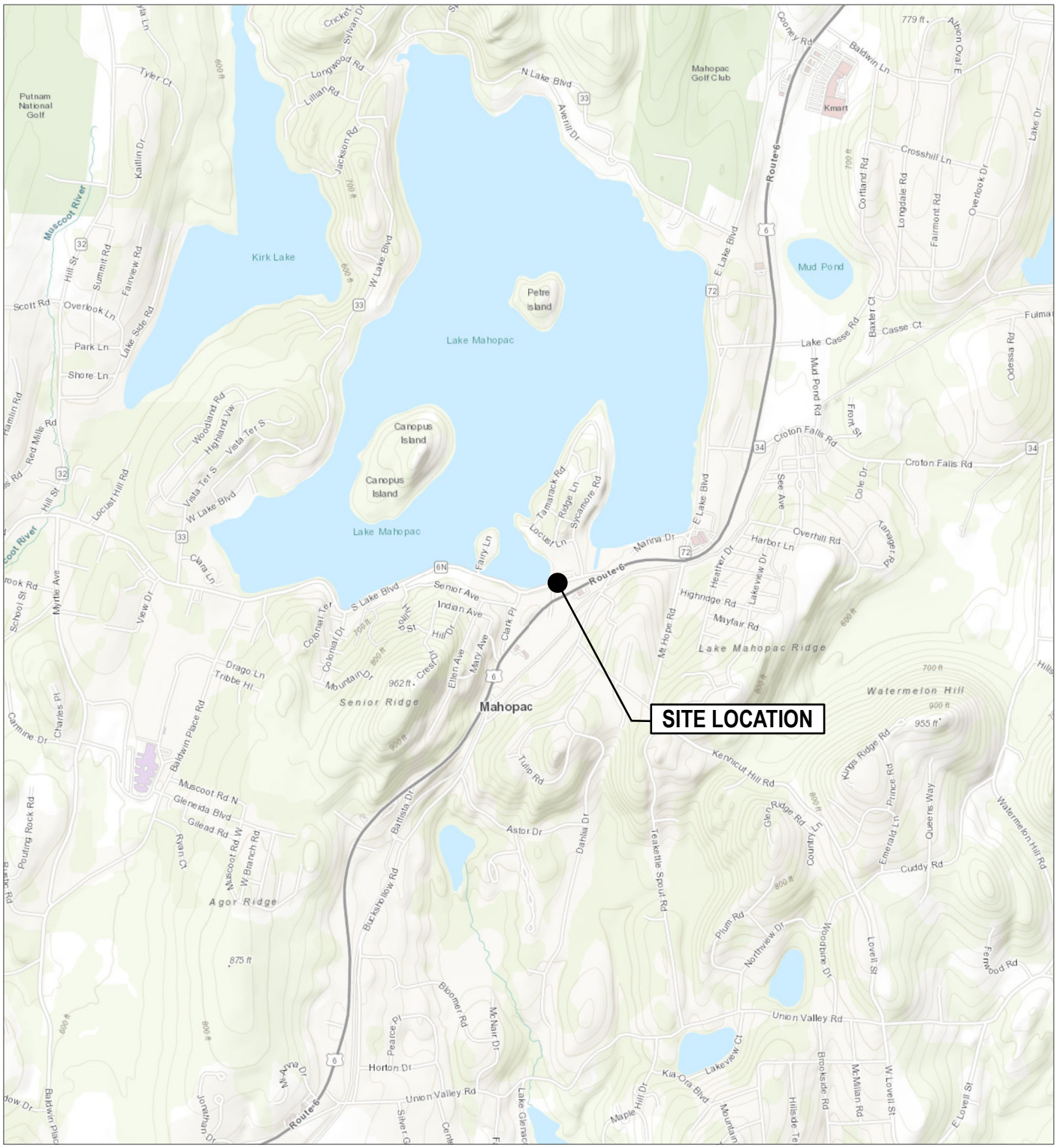
- With respect to the primary Site contaminants of concern (COCs), tetrachloroethene and its main breakdown daughter compounds (trichloroethene, cis-1,2-dichloroethene, and vinyl chloride) were not detected above laboratory reporting limits in any sample submitted for analysis. This is consistent with results found in limited available historical groundwater sampling records. As a result, it is recommended that no further action be required with regard to chlorinated VOCs in groundwater.
- As 1,4-dioxane was not detected in any collected groundwater sample, it is recommended that no further action be required with respect to this compound.

- Due to elevated PFOA and PFOS concentrations detected in groundwater samples collected from all Site monitoring wells, it is recommended that groundwater monitoring for these substances continue at a frequency determined by the NYSDEC.
- If groundwater sampling continues, it is recommended that the manholes for monitoring wells MW-02S/I/D and MW-03I be replaced with modern water tight collars and lids. The current structures in place at each of these wells appeared to be original (circa 1980s). It is also recommended that the manhole lid from the inaccessible MW-06 depth interval be removed and repaired.
- It is recommended that a survey be completed on all monitoring wells onsite to establish ground surface and TOC elevations to determine groundwater flow directions.

5.0 Future Site Activities

Continued groundwater monitoring and site inspection activities are recommended on an annual basis, or at a frequency to be determined by the NYSDEC.

FIGURES



● SITE LOCATION

BASE MAP: USGS COLOR ORTHO IMAGERY
DATA SOURCES: TRC

N

0 1,000 2,000

FEET

1:24,000 1" = 2,000'

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MAHOPAC BUSINESS DISTRICT WELLS - SITE NO. 340013
ROUTE 6 AND ROUTE 6N
MAHOPAC, NEW YORK

TITLE:

SITE LOCATION MAP

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 1
CHECKED BY:	J. KING		
APPROVED BY:	N. KRANES		**FIGURE 1**
DATE:	NOVEMBER 2020		

TRC
10 Maxwell Drive
Clifton Park, NY 12065
Phone: 518-348-1190

FILE: sitelocation

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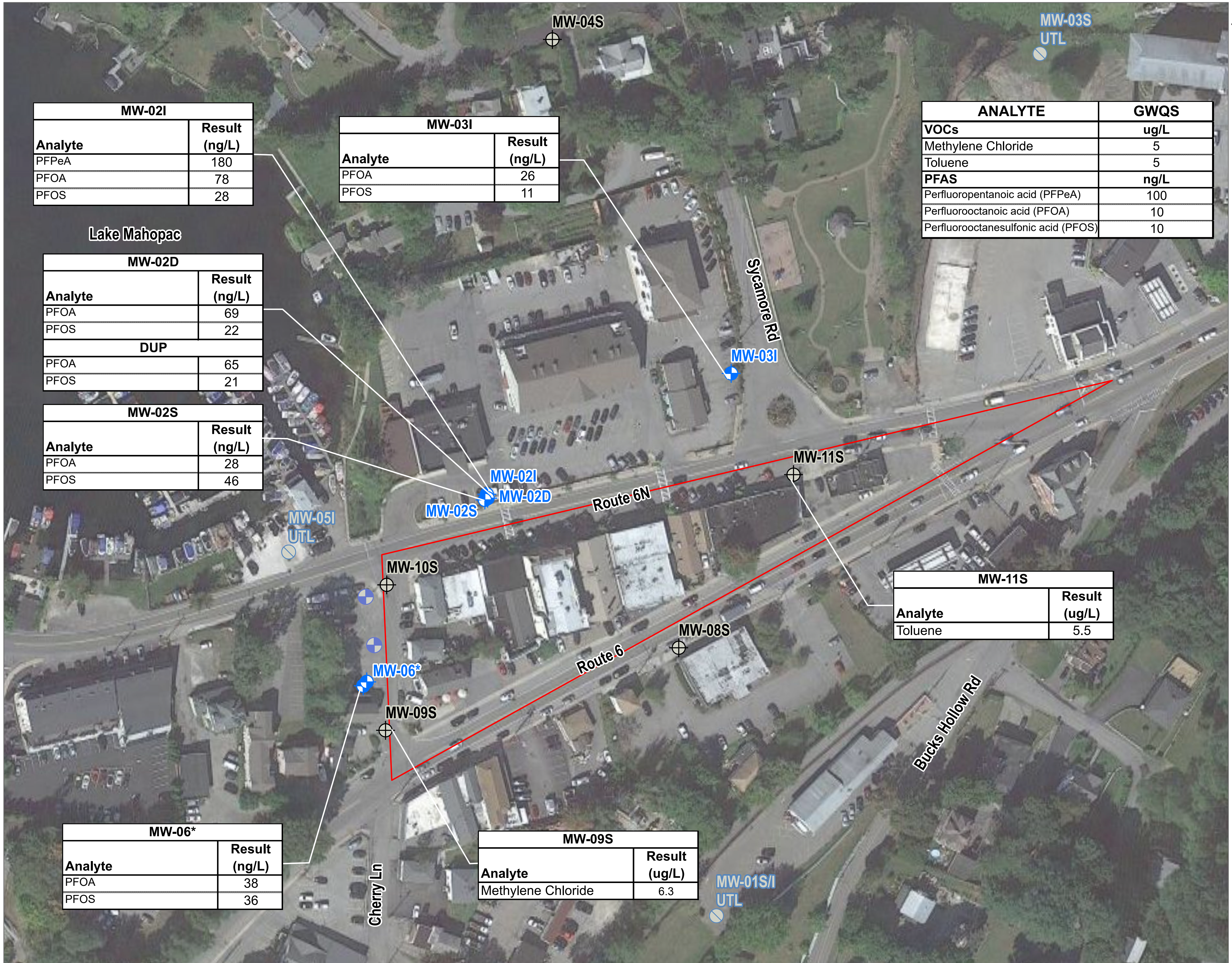

MW-02I	
Analyte	Result (ng/L)
PFPeA	180
PFOA	78
PFOS	28

MW-03I	
Analyte	Result (ng/L)
PFOA	26
PFOS	11

MW-02D	
Analyte	Result (ng/L)
PFOA	69
PFOS	22
DUP	
PFOA	65
PFOS	21

MW-02S	
Analyte	Result (ng/L)
PFOA	28
PFOS	46

MW-11S	
Analyte	Result (ug/L)
Toluene	5.5

MW-06*	
Analyte	Result (ng/L)
PFOA	38
PFOS	36

MW-09S	
Analyte	Result (ug/L)
Methylene Chloride	6.3

ANALYTE	GWQS
VOCs	**ug/L**
Methylene Chloride	5
Toluene	5
PFAS	**ng/L**
Perfluoropentanoic acid (PFPeA)	100
Perfluorooctanoic acid (PFOA)	10
Perfluorooctanesulfonic acid (PFOS)	10

LEGEND

- SEWER TRENCH WELL
- MONITORING WELL
- PRESUMED WELL PER FEB. 1990 RI REPORT (LOCATION APPROXIMATE)
- UNIDENTIFIED MONITORING WELL
- REPORTED SITE BOUNDARIES

Notes:

ug/L - micrograms per liter
ng/L - nanograms per liter
PFAS - Per- and polyfluoroalkyl substances
UTL - Unable to locate
VOCs - Volatile organic compounds
* TRC was unable to determine the depth interval of MW-06 as only one well was accessible.
GWQS - Groundwater Water Quality Standard: NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values, Class GA, June 1998, or Guidelines for Sampling and Analysis of PFAS, NYSDEC Part 375 Remedial Programs, October 2020.
All groundwater samples were collected between October 21 to 23, 2020.
All groundwater samples were analyzed for VOCs. Monitoring well groundwater samples were additionally analyzed for PFAS and 1,4-dioxane.
For figure clarity:
1) Constituents and individual compounds not shown were either not detected or did not exceed their respective GWQS.
2) Laboratory analytical data qualifiers have been omitted, refer to the summary data tables for analytical details regarding qualifiers.

N

1:1,325
1" = 110'

BASE MAP: GOOGLE SATELLITE 2020
DATA SOURCES: TRC

0 110 220 FEET

PROJECT:
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
MAHOPAC BUSINESS DISTRICT WELLS - SITE NO. 340013
ROUTE 6 AND ROUTE 6N
MAHOPAC, NEW YORK

TITLE:
GROUNDWATER MONITORING MAP (OCTOBER 21 TO 23, 2020)

DRAWN BY:	L. LILL	PROJ. NO.:	386554 PHASE 1
CHECKED BY:	J. KING	FIGURE 2	
APPROVED BY:	N. KRANES		
DATE:	FEBRUARY 2021		

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Clifton Park, NY 12065
Phone: 518-348-1190

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Coordinate System: NAD 1983 StatePlane New York East FIPS 3101 Feet; Map Rotation: 0
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TABLES

Table 1
Summary of Depth to Water Measurements and Groundwater Elevations
Mahopac Business District Wells Site (Site No. 340013)
Mahopac, NY

Well ID	Screened Formation	TOC Elevation (feet AMSL)	Gauge Date	Depth to Water (feet below TOC)	Depth to Bottom (feet below TOC)	Groundwater Elevation (feet AMSL)
MW-01S	Overburden	Unable to locate				
MW-01I	Bedrock	Unable to locate				
MW-02S	Overburden	NA	10/21/2020	4.79	19.29	NA
MW-02I	Bedrock	NA	10/21/2020	4.38	48.06	NA
MW-02D	Bedrock	NA	10/21/2020	4.97	337.8	NA
MW-03S	Overburden	Unable to locate				
MW-03I	Bedrock	NA	10/21/2020	4.02	65.49	NA
MW-04S	Sewer	N/A				
MW-05I	Bedrock	Unable to locate				
MW-06*	Overburden / Bedrock	NA	10/21/2020	3.87	45.1	NA
MW-08S	Sewer	NA				
MW-09S	Sewer	NA				
MW-10S	Sewer	NA				
MW-11S	Sewer	NA				

Notes
AMSL : Above Mean Sea Level.
NA : Not Applicable.
ID : Identification.
TOC : Top of Casing.
MW-06* : TRC was unable to determine the depth interval of MW-06 as only one well was accessible.

Table 2
Summary of Groundwater Analytical Results - October 2020
Mahopac Business District Wells Site (Site No. 340013)
Mahopac, New York

Sample Location:			MW-2D		MW-2I	MW-2S	MW-3I	MW-4S
Sample Name:			MW-02D	DUP	MW-02I	MW-02S	MW-03I	MW-04S
Lab Sample ID:			480-177077-3	480-177077-4	480-177077-1	480-177077-2	480-177077-10	480-177077-9
Sample Date:			10/23/2020	10/22/2020	10/21/2020	10/21/2020	10/21/2020	10/21/2020
Analyte	**Unit**	**Guidance Value***		**Field Dup**				
VOCs								
1,1,1-Trichloroethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1,2-Trichloroethane	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1,2-Trichloro- 1,2,2-trifluoroethane (Freon 113)	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1-Dichloroethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,1-Dichloroethene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2,4-Trichlorobenzene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dibromo-3-chloropropane	ug/L	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dichlorobenzene	ug/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dichloroethane	ug/L	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dichloropropane	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,3-Dichlorobenzene	ug/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,4-Dichlorobenzene	ug/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
2-Butanone (MEK)	ug/L	50	10 U	10 UJ	10 U	10 U	10 UJ	40 UJ
2-Hexanone	ug/L	50	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ	20 UJ
4-Methyl-2-pentanone	ug/L	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	20 U
Acetone	ug/L	50	4.1 J	3.1 J	10 U	10 U	5.7 J	12 J
Benzene	ug/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Bromodichloromethane	ug/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Bromoform	ug/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Bromomethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Carbon disulfide	ug/L	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Carbon tetrachloride	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Chlorobenzene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Chloroethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Chloroform	ug/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Chloromethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
cis-1,2-Dichloroethene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
cis-1,3-Dichloropropene	ug/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Cyclohexane	ug/L	NC	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Dibromochloromethane	ug/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Dichlorodifluoromethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Ethylbenzene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0006	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Isopropylbenzene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Methyl acetate	ug/L	NS	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 UJ	10 UJ
Methyl tert-butyl ether	ug/L	10	1.0 U	1.0 U	0.56 J	1.0 U	0.18 J	4.0 U
Methylcyclohexane	ug/L	NC	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Methylene chloride	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8 J
Styrene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Tetrachloroethene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Toluene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 J
trans-1,2-Dichloroethene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
trans-1,3-Dichloropropene	ug/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Trichloroethene	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Trichlorofluoromethane	ug/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Vinyl chloride	ug/L	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U
Xylenes, total	ug/L	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	8.0 U
VOCs, TICs								
Isooctanol (Isomers)	ug/L	NC	NA	NA	NA	NA	NA	NA
Unknown Volatile Organic With 1st Highest Conc.	ug/L	NC	NA	NA	NA	NA	NA	NA
SVOCs								
1,4-Dioxane	ug/L	NC	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	NA

Table 2
Summary of Groundwater Analytical Results - October 2020
Mahopac Business District Wells Site (Site No. 340013)
Mahopac, New York

Sample Location:			**MW-2D**		**MW-2I**	**MW-2S**	**MW-3I**	**MW-4S**
Sample Name:			MW-02D	DUP	MW-02I	MW-02S	MW-03I	MW-04S
Lab Sample ID:			480-177077-3	480-177077-4	480-177077-1	480-177077-2	480-177077-10	480-177077-9
Sample Date:			10/23/2020	10/22/2020	10/21/2020	10/21/2020	10/21/2020	10/21/2020
Analyte	**Unit**	**Guidance Value***		**Field Dup**				
PFAS								
Perfluorobutanoic acid (PFBA)	ng/L	100**	23	23	43	12	6.3	NA
Perfluoropentanoic acid (PFPeA)	ng/L	100**	59	58	**180**	9.0	3.0	NA
Perfluorohexanoic acid (PFHxA)	ng/L	100**	48	49	85	7.2	3.0	NA
Perfluoroheptanoic acid (PFHpA)	ng/L	100**	39	37	45	5.7	5.5	NA
Perfluorooctanoic acid (PFOA)	ng/L	10**	**69**	**65**	**78**	**28**	**26**	NA
Perfluorononanoic acid (PFNA)	ng/L	100**	14	15	6.4	8.5	8.5	NA
Perfluorodecanoic acid (PFDA)	ng/L	100**	26	27	5.5	2.3	6.3	NA
Perfluoroundecanoic acid (PFUnA)	ng/L	100**	5.6	5.2	1.7 U	1.6 U	0.95 J	NA
Perfluorododecanoic acid (PFDoA)	ng/L	100**	14	14	0.72 J	0.50 J	0.88 J	NA
Perfluorotridecanoic acid (PFTriA)	ng/L	100**	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	NA
Perfluorotetradecanoic acid (PFTeA)	ng/L	100**	2.5	1.7	1.7 U	1.6 U	1.7 U	NA
Perfluorobutanesulfonic acid (PFBS)	ng/L	100**	5.4	5.1	8.8	9.5	4.0	NA
Perfluorohexanesulfonic acid (PFHxS)	ng/L	100**	3.6	3.5	3.9	2.3	2.8	NA
Perfluoroheptanesulfonic acid (PFHpS)	ng/L	100**	0.40 J	0.37 J	0.59 J	0.44 J	1.7 U	NA
Perfluorodecanesulfonic acid (PFDS)	ng/L	100**	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	NA
Perfluorooctanesulfonic acid (PFOS)	ng/L	10**	**22**	**21**	**28**	**46**	**11**	NA
Perfluorooctane Sulfonamide (PFOSA)	ng/L	100**	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	NA
2-(N-methyl perfluorooctanesulfonamido) acetic acid (N-MeFOSAA)	ng/L	100**	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U	NA
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine (N-EtFOSAA)	ng/L	100**	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U	NA
6:2 Perfluorooctane Sulfonate (6:2 FTS)	ng/L	100**	4.2 U	4.2 U	4.2 U	4.1 U	4.1 U	NA
8:2 Perfluorodecane Sulfonate (8:2 FTS)	ng/L	100**	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	NA
Total PFAS	ng/L	500**	332 J	325 J	485 J	131 J	78.2 J	NA

Notes:

J - Estimated value.

ng/L - nanograms per liter.

N - Presumptive evidence of material.

NA - Sample not analyzed for the listed analyte.

NC - No NYSDEC standards exist for this analyte.

PFAS - Per- and Polyfluoroalkyl Substances.

SVOCs - Semivolatile Organic Compounds.

TICs- Tentatively Identified Compounds.

U - Analyte was not detected at specified quantitation limit.

ug/L - micrograms per liter.

UJ - Estimated non-detect.

VOCs - Volatile Organic Compounds.

* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.

** - Guidelines for Sampling and Analysis of PFAS, NYSDEC Part 375 Remedial Programs, January 2021.

Bold - values exceed the listed NYSDEC standard or guidance value.

Table 2
Summary of Groundwater Analytical Results - October 2020
Mahopac Business District Wells Site (Site No. 340013)
Mahopac, New York

		Sample Location:	**MW-6**	**MW-8S**	**MW-9S**	**MW-10S**	**MW-11S**
		Sample Name:	MW-06	MW-08S	MW-09S	MW-10S	MW-11S
		Lab Sample ID:	480-177077-7	480-177077-11	480-177077-5	480-177077-6	480-177077-8
		Sample Date:	10/21/2020	10/22/2020	10/21/2020	10/21/2020	10/21/2020
Analyte	**Unit**	**Guidance Value***					
VOCs							
1,1,1-Trichloroethane	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,1,2-Trichloro- 1,2,2-trifluoroethane (Freon 113)	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,1-Dichloroethane	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,1-Dichloroethene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,2-Dibromo-3-chloropropane	ug/L	0.04	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	3	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.6	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,2-Dichloropropane	ug/L	1	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	3	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	3	1.0 U	4.0 U	10 U	4.0 U	1.0 U
2-Butanone (MEK)	ug/L	50	10 UJ	40 UJ	100 UJ	40 UJ	10 UJ
2-Hexanone	ug/L	50	5.0 UJ	20 UJ	50 UJ	20 UJ	5.0 UJ
4-Methyl-2-pentanone	ug/L	NC	5.0 U	20 U	50 U	20 U	5.0 U
Acetone	ug/L	50	10 U	40 U	100 U	40 U	5.4 J
Benzene	ug/L	1	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Bromodichloromethane	ug/L	50	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Bromoform	ug/L	50	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Bromomethane	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Carbon disulfide	ug/L	60	1.0 U	4.0 U	10 U	4.0 U	0.37 J
Carbon tetrachloride	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Chlorobenzene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Chloroethane	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Chloroform	ug/L	7	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Chloromethane	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	0.4	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Cyclohexane	ug/L	NC	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Dibromochloromethane	ug/L	50	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Dichlorodifluoromethane	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Ethylbenzene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0006	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Isopropylbenzene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Methyl acetate	ug/L	NS	2.5 UJ	10 UJ	25 UJ	10 UJ	2.5 UJ
Methyl tert-butyl ether	ug/L	10	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Methylcyclohexane	ug/L	NC	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Methylene chloride	ug/L	5	1.0 U	4.5	**6.3 J**	4.0 U	1.0 U
Styrene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Tetrachloroethene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Toluene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	**5.5**
trans-1,2-Dichloroethene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	0.4	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Trichloroethene	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Trichlorofluoromethane	ug/L	5	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Vinyl chloride	ug/L	2	1.0 U	4.0 U	10 U	4.0 U	1.0 U
Xylenes, total	ug/L	5	2.0 U	8.0 U	20 U	8.0 U	2.0 U
VOCs, TICs							
Isooctanol (Isomers)	ug/L	NC	NA	NA	NA	NA	2.6 JN
Unknown Volatile Organic With 1st Highest Conc.	ug/L	NC	NA	NA	NA	NA	3.0 J
SVOCs							
1,4-Dioxane	ug/L	NC	0.20 U	NA	NA	NA	NA

Table 2
Summary of Groundwater Analytical Results - October 2020
Mahopac Business District Wells Site (Site No. 340013)
Mahopac, New York

		Sample Location:	**MW-6**	**MW-8S**	**MW-9S**	**MW-10S**	**MW-11S**
		Sample Name:	MW-06	MW-08S	MW-09S	MW-10S	MW-11S
		Lab Sample ID:	480-177077-7	480-177077-11	480-177077-5	480-177077-6	480-177077-8
		Sample Date:	10/21/2020	10/22/2020	10/21/2020	10/21/2020	10/21/2020
Analyte	**Unit**	**Guidance Value***					
PFAS							
Perfluorobutanoic acid (PFBA)	ng/L	100**	15	NA	NA	NA	NA
Perfluoropentanoic acid (PFPeA)	ng/L	100**	43	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	ng/L	100**	32	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	ng/L	100**	15	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	ng/L	10**	**38**	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	ng/L	100**	4.4	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	ng/L	100**	9.4	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUnA)	ng/L	100**	1.8 U	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	ng/L	100**	3.5	NA	NA	NA	NA
Perfluorotridecanoic acid (PFTriA)	ng/L	100**	1.8 U	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	ng/L	100**	1.8 U	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	ng/L	100**	6.7	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	ng/L	100**	3.2	NA	NA	NA	NA
Perfluoroheptanesulfonic acid (PFHpS)	ng/L	100**	0.48 J	NA	NA	NA	NA
Perfluorodecanesulfonic acid (PFDS)	ng/L	100**	1.8 U	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	ng/L	10**	**36**	NA	NA	NA	NA
Perfluorooctane Sulfonamide (PFOSA)	ng/L	100**	1.8 U	NA	NA	NA	NA
2-(N-methyl perfluorooctanesulfonamido) acetic acid (N-MeFOSAA)	ng/L	100**	4.4 U	NA	NA	NA	NA
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine (N-EtFOSAA)	ng/L	100**	4.4 U	NA	NA	NA	NA
6:2 Perfluorooctane Sulfonate (6:2 FTS)	ng/L	100**	4.4 U	NA	NA	NA	NA
8:2 Perfluorodecane Sulfonate (8:2 FTS)	ng/L	100**	1.8 U	NA	NA	NA	NA
Total PFAS	ng/L	500**	207 J	NA	NA	NA	NA

Notes:

J - Estimated value.

ng/L - nanograms per liter.

N - Presumptive evidence of material.

NA - Sample not analyzed for the listed analyte.

NC - No NYSDEC standards exist for this analyte.

PFAS - Per- and Polyfluoroalkyl Substances.

SVOCs - Semivolatile Organic Compounds.

TICs- Tentatively Identified Compounds.

U - Analyte was not detected at specified quantitation limit.

ug/L - micrograms per liter.

UJ - Estimated non-detect.

VOCs - Volatile Organic Compounds.

* - NYSDEC Ambient Water Quality Standards and Guidance Values for Class GA water, June 1998 with the April 2000 Addendum.

** - Guidelines for Sampling and Analysis of PFAS, NYSDEC Part 375 Remedial Programs, January 2021.

Bold - values exceed the listed NYSDEC standard or guidance value.

APPENDIX A

SITE HISTORY, CUSTODIAL RECORD, AND MONITORING WELL SUMMARY

CUSTODIAL RECORD
KNOWN PERTINENT SITE DOCUMENTS
MAHOPAC BUSINESS DISTRICT WELLS (NYSDEC SITE NO. 340013)

Ecological Analysts, Inc., *Preliminary Investigation of the Mahopac Business District Village of Mahopac, Putnam County, New York, Phase I, Summary Report*, November 1983

Wehran Engineering, P.C., *Technical Proposal for a Remedial Investigation/Feasibility Study of the Mahopac Business District Site*, September 1986

Wehran Engineering, P.C., *Contract for a Remedial Investigation/Feasibility Study of the Mahopac Business District Site*, January 1987

Wehran Engineering, P.C., *Public Participation Plan for the Mahopac Business District Site*, July 1987

Wehran Engineering, P.C., *Remedial Investigation Work Plan, Quality Control Plan and Health and Safety Plan for the Remedial Investigation of the Mahopac Business District Site*, November 1987

Wehran Engineering, P.C., *Interim Report, Mahopac Business District RI/FS Sanitary Sewer and Water Supply Surveys and Sampling and Analysis of Private Well*, March 1989.

Wehran Engineering, P.C., *Remedial Investigation Report for the Mahopac Business District Site, Volumes I, II, III, IV.,* February 1990

Wehran Engineering, P.C., *Feasibility Study Report for the Mahopac Business District Site*, March 1990

New York State Department of Environmental Conservation, *Proposed Plan for Remediation of the Mahopac Business District Site*, July 1990

SITE HISTORY

MAHOPAC BUSINESS DISTRICT WELLS (NYSDEC SITE NO. 340013)

Date	Description
1978	Contamination of groundwater in the Mahopac business district was discovered following a gasoline spill at the former U.S. Gas Station (currently Carland Auto) during the Fall of 1978. The Putnam County Department of Health sampled several private wells in the business district to determine whether or not gasoline constituents had entered the groundwater. Results indicated the presence of tetrachloroethene and trichloroethene (common dry cleaning solvents) in several of the water samples. Boil water orders were issued, and several carbon filtration units have been installed by well owners.
1983	The NYSDEC completed a Phase I investigation. The Phase I study developed a preliminary Hazardous Ranking System (HRS) score (Sm=32) which shows a potential for harm to human health and the environment from groundwater or surface water migration. The Mahopac site was nominated for the United States Environmental Protection Agency's (EPA) National Priorities List for federal lead action. EPA declined and referred the site back to New York State for action.
January 1987	NYSDEC selected the Mahopac site for a Remedial Investigation/Feasibility Study (RI/FS) as the first step towards corrective action under the State Superfund Program and contracted with Wehran Engineering in January 1987 to perform such a study.
August 1990	A Record of Decision (ROD) was issued and included individual carbon treatment units at affected potable wells, an alternative water supply from Lake Mahopac, removal of contaminated sanitary sewer sediment, review a sanitary sewer evaluation survey, long-term groundwater monitoring, and consideration of pump and treat systems on new or existing wells to contain the plume after a new water supply installed. The source of the historic discharges were attributed to three former dry cleaning establishments.
1998-2002	Groundwater monitoring results show that the contaminants of concern, tetrachloroethane and trichloroethene were present in monitoring wells above minimum groundwater standards. Monitoring data showed a downward trend of the groundwater contamination as a result of soil excavation and groundwater treatment, and in one case, the standard appears to be achieved.
December 2004	A Monitoring Plan was prepared to initiate a groundwater monitoring and site inspection schedule.

New York State Department of Environmental Conservation
Mahopac Business District Wells (Site No. 340013) - Village of Mahopac, NY
Monitoring Well Construction Summary

Well ID	Installation Date	Well Dia. (inches)	Well Material	Total Depth (feet bgs)	Screened Formation	*Screen*			*Elevation (feet AMSL)*				*Location*	
						Top (feet bgs)	Bottom (feet bgs)	Length (feet)	Casing Top	Ground Surface	Screen		Latitude	Longitude
											Top	Bottom		
MW-01S*	N/A	N/A	N/A	N/A	Overburden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-01I*	N/A	N/A	N/A	N/A	Bedrock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-02S	N/A	N/A	PVC	19.29	Overburden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37223496	-73.73621233
MW-02I	N/A	N/A	PVC	48.06	Bedrock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37225253	-73.73620407
MW-02D	N/A	N/A	PVC	337.8	Bedrock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37224017	-73.73620066
MW-03S*	N/A	N/A	N/A	N/A	Overburden	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-03I	N/A	N/A	PVC	65.49	Bedrock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37262378	-73.73518508
MW-04S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37367328	-73.73591504
MW-05I*	N/A	N/A	N/A	N/A	Bedrock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-06S/I	N/A	N/A	PVC	45.1	Overburden / Bedrock	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37165675	-73.73672423
MW-08S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37176701	-73.73541263
MW-09S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37151687	-73.73663315
MW-10S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37197185	-73.73662294
MW-11S	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41.37230532	-73.73492985

Notes
AMSL : above mean sea level
feet bgs : feet below ground surface
PVC : polyvinyl chloride
N/A : Not Available
* : well log could not be located
MW-06S/I : TRC was unable to determine the complete ID of MW-06S/I as only one well was accessible
Coordinate System: New York State Plane - East 3101; Vertical Datum: NAD 1983 (conus) through GPS observations

APPENDIX B

SITE INSPECTION FORMS

TRC		**DATE: Friday, August 21st, 2020**
		REPORT NO. 1
		PAGE NO. 1 OF 2
		PROJECT NO. 386554.0000.0000

DAILY FIELD ACTIVITY REPORT

PROJECT	Mahopac Business District Wells
LOCATION	Mahopac, New York
ATTACHMENTS	Photo Log

WEATHER	TIME	TEMP.	PRECIP.	WIND (MPH)	WIND (DIR)
Sunny/Clear	9:30	70s	None	0-5	ENE
Sunny/Clear	13:00	80s	None	0-5	ENE

SITE CONDITIONS: Sunny/Clear

WORK GOAL FOR DAY: Site Inspection

PERSONNEL ON SITE:

NAME	AFFILIATION	ARRIVAL TIME	DEPART TIME
Justin King	TRC Engineers, Inc.	9:30	13:00

EQUIPMENT ON SITE:

TYPE	MODEL	TYPE	MODEL
Water Level Meter (500')	Heron		

HEALTH & SAFETY:

PPE REQUIRED: ☒ LEVEL D ☐ LEVEL C ☐ LEVEL B ☐ LEVEL A **HASP?** YES

SITE SAFETY OFFICER: Justin King

H & S NOTES: Site work performed in Level D PPE

TRC		**DATE: Friday, August 21st, 2020**
		REPORT NO. 1
		PAGE NO. 2 OF 2
		PROJECT NO. 386554.0000.0000

DAILY FIELD ACTIVITY REPORT

DESCRIPTION OF WORK PERFORMED AND OBSERVED

TRC Engineers, Inc. (TRC) conducted an annual inspection at the Mahopac Business District Wells Site (Site). The Site is in the hamlet of Mahopac, NY on Friday, August 21st, 2020. The objective of the site inspection was to document the general site conditions, and to evaluate the condition of the groundwater monitoring wells.

TRC met onsite and conducted a health and safety and scope of work meeting, prior to beginning work. After completion of the meeting, TRC began a site walk and inspection. During the inspection, TRC was unable to locate monitoring wells MW-1S/I, MW-3S, and MW-5I. MW-4S was possibly located as a stormwater sewer grate, similar to MW-8S, MW-9S, MW-10S, and MW-11S. Monitoring wells MW-2S/I/D and MW-6S/I were inaccessible due to the presence of vehicles parked on top of them.

3 unidentified monitoring wells were found around the Lakeside Auto Service Center. Per the Service Center Manager, these wells were installed by his company.

PREPARED BY (OBSERVER):	**REVIEWED BY:**
PRINT NAME: Justin King	**PRINT NAME:**

Report No. 01 **Mahopac Business District Wells - NYSDEC Site No. 340013** Date: 10/21/2020

NYSDEC Division of Environmental Remediation					**NYSDEC Contract No. D009812** Superintendent: Lexie Lill NYSDEC PM: Brianna Scharf Consultant PM: Justin King Consultant Site Inspectors: Lexie Lill and Sam Pereira
Site Location: Mahopac, New York					
Weather Conditions					
General Description	Cloudy, mist	AM	Cloudy	PM	
Temperature	60's	AM	60's	PM	
Wind	2-5 mph	AM	2-5 mph	PM	

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

No injuries or accidents to note. Main concerns include: Traffic hazards, uneven ground, and slips, trips and falls.

Summary of Work Performed	Arrived at site:	07:45	Departed Site:	15:00

TRC arrived on site and gauged/sampled monitoring wells MW-02S, MW-02I, MW-10S, MW-06, MW-9S, MW-3I, MW-04S, and MW-11S. TRC will continue sampling remaining wells tomorrow.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA X
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Sam Pereira	TRC	Contractor	7.25
Lexie Lill	TRC	Contractor	7.25

Equipment Description	Contractor/Vendor	Quantity	Used
MiniRAE 3000	Pine Services	1	4
Horiba U-52	Pine Services	1	4
Peri Pump	Pine Services	1	4
Interface Probe	Pine Services	1	4

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Site Representatives

Name	Representing

Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

TRC sampling MW-02I.

TRC sampling MW-03I.

Photo of MW-10S.

Photo of MW-11S.

Site Inspector(s): Lexie Lill

Date: 10/21/2020

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☒
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☐
Comments:		

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☒	N/A☐
Was turbidity checked at the Montauk Highway outfall?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☐
Comments:			

Report No. 02 **Mahopac Business District Wells - NYSDEC Site No. 340013** Date: 10/22/2020

NYSDEC
Division of Environmental Remediation

Site Location: Mahopac, New York

NYSDEC Contract No. D009812

Superintendent: Lexie Lill

NYSDEC PM: Brianna Scharf

Consultant PM: Justin King

Consultant Site Inspectors: Lexie Lill and Sam Pereira

Weather Conditions

General Description	Cloudy	AM	Cloudy	PM
Temperature	60's	AM	60's	PM
Wind	2-5 mph	AM	2-5 mph	PM

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

No injuries or accidents to note. Main concerns include: Traffic hazards, uneven ground, and slips, trips and falls.

Summary of Work Performed	Arrived at site:	07:45	Departed Site:	13:00

TRC arrived on site and sampled monitoring well MW-08S. TRC could not locate monitoring wells MW-05I, MW-01S, MW-01I, and MW-03S. Additionally, TRC was not able to open one of the wells at location MW-06. Due to equipment malfunctions, low-flow sampling of MW-02D with a bladder pump could not be completed. TRC contacted Pine Equipment Services to resolve equipment malfunctions. TRC will re-attempt sampling of MW-02D, tomorrow.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA X
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Sam Pereira	TRC	Contractor	5.25
Lexie Lill	TRC	Contractor	5.25

Equipment Description	Contractor/Vendor	Quantity	Used

MiniRAE 3000	Pine Services	1	1
Horiba U-52	Pine Services	1	1
Bladder Pump	Pine Services	1	1
Interface Probe	Pine Services	1	1

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Site Representatives

Name	Representing

Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

TRC sampling set up at MW-02D.

Photo of MW-08S.

Photo of well at MW-06. Tools used to try to open the well are pictured.

Photo of well at MW-06.

Site Inspector(s): Lexie Lill

Date: 10/22/2020

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☒
If Yes to any of 1-4 above: • If it is not critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it is critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☐
Comments:		

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☒	N/A☐
Was turbidity checked at the Montauk Highway outfall?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☐
Comments:			

Report No. 03 **Mahopac Business District Wells - NYSDEC Site No. 340013** Date: 10/23/2020

NYSDEC Division of Environmental Remediation				**NYSDEC Contract No. D009812** Superintendent: Lexie Lill NYSDEC PM: Brianna Scharf Consultant PM: Justin King Consultant Site Inspectors: Lexie Lill and Sam Pereira
Site Location: Mahopac, New York				
Weather Conditions				
General Description	Cloudy	AM	PM	
Temperature	60's	AM	PM	
Wind	2-5 mph	AM	PM	

Health & Safety
If any box below is checked "Yes", provide explanation under "Health & Safety Comments".

Were there any changes to the Health & Safety Plan?	*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?	*Yes	No X	NA
Were there any nuisance issues reported/observed on this date?	*Yes	No X	NA

Health & Safety Comments

No injuries or accidents to note. Main concerns include: Traffic hazards, uneven ground, and slips, trips and falls.

Summary of Work Performed	Arrived at site:	08:30	Departed Site:	11:45

TRC arrived on site and sampled monitoring well MW-02D. TRC attempted to sample MW-02D with a bladder pump at lower depths but couldn't due to equipment malfunctions. TRC then sampled MW-02D with a peristaltic pump.

Equipment/Material Tracking
If any box below is checked "Yes", provide explanation under "Material Tracking Comments".

Were there any vehicles which did not display proper D.O.T numbers and placards?	*Yes	No	NA X
Were there any vehicles which were not tarped?	* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?	* Yes	No	NA X

Personnel and Equipment

Individual	Company	Trade	Total Hours
Sam Pereira	TRC	Contractor	3.25
Lexie Lill	TRC	Contractor	3.25

Equipment Description	Contractor/Vendor	Quantity	Used
MiniRAE 3000	Pine Services	1	1
Horiba U-52	Pine Services	1	1
Bladder Pump	Pine Services	1	1
Interface Probe	Pine Services	1	1
Peristaltic Pump	Pine Services	1	1

Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)	Daily Loads	Daily Weight (tons)*

*On-Site scale for off-site shipment, delivery ticket for material received

Equipment/Material Tracking Comments:

Visitors to Site

Name	Representing	Entered Exclusion/CRZ Zone	
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No
		Yes	No

Site Representatives

Name	Representing

Project Schedule Comments

Issues Pending

Interaction with Public, Property Owners, Media, etc.

Include (insert) figures with markups showing location of work and job progress

Site Photographs (Descriptions Below)

TRC purging MW-02D with a bladder pump.

TRC purging MW-02D with a peristaltic pump.

Site Inspector(s): Lexie Lill

Date: 10/23/2020

DAILY HEALTH CHECKLIST

Is social distancing being practiced?	Yes ☒	No ☐
Is the tail gate safety meeting held outdoors?	Yes ☒	No ☐
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☒	No ☐
Were personal protective gloves, masks, and eye protection being used?	Yes ☒	No ☐
Are sanitizing wipes, wash stations or spray available?	Yes ☒	No ☐
Have any workers/visitors been excluded based on close contact with individuals diagnosed with COVID-19, have recently traveled to restricted areas or countries, or are symptomatic (fever, chills, cough/shortness of breath)?	Yes ☐	No ☒
Comments:		

REMEDIAL ACTIVITIES AT PROPERTIES

1. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
2. Is anyone at this location isolated or quarantined for COVID-19?	Yes ☐	No ☒
3. Has anyone at this location had contact with anyone known to have COVID-19 in the past 14 days?	Yes ☐	No ☒
4. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
5. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☒
If Yes to <u>any</u> of 1-4 above: • If it is <u>not</u> critical that service/entry be carried out immediately and can be postponed until the risk of COVID-19 is lower, or can be accomplished remotely/without entry, postpone or conduct service without entry. • If it <u>is</u> critical that service/entry be carried out immediately, advise occupants that as a precaution and for our own protection, project personnel will be donning appropriate PPE* (including respiratory protection) - and do so prior to entry.	Yes ☐	No ☐
Comments:		

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☒	N/A☐
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☒	N/A☐
Was turbidity checked at the Montauk Highway outfall?	AM ☐	PM ☐	N/A☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A☒
Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A☐
Comments:			

APPENDIX C

GROUNDWATER SAMPLING LOGS – OCTOBER 2020

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID	DATE
Mahopac BD		MW-02S	10/21/2020
PROJECT NUMBER		**START TIME**	**END TIME**
386554.0000.0000		9:20	10:30
SAMPLE ID	**SAMPLE TIME**	**SITE NAME/NUMBER**	**PAGE**
MW-02S	10:25	340013	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER Unknown

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	4.79 FT	**FINAL DTW (BMP)**	6.10 FT	**PROT. CASING STICKUP (AGS)**	- FT	**TOC/TOR DIFFERENCE**	- FT
WELL DEPTH (BMP)	19.29 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	- SEC
WATER COLUMN	14.5 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	- SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	2.38 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	3.90 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	- PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
9:20	**BEGIN PURGING**									
9:25	5.89	250	18.54	3.31	7.04	0.0	68.6	302	16	
9:30	5.92	250	18.57	3.24	7.04	0.0	49.0	295	16	
9:35	5.97	250	18.57	3.22	7.05	0.0	45.1	292	16	
9:40	6.00	250	18.55	3.20	7.06	0.0	46.1	286	16	
9:45	6.03	250	18.57	3.18	7.05	0.0	40.9	283	16	
9:50	6.05	250	18.57	3.17	7.07	0.0	34.8	279	16	
9:55	6.08	250	18.61	3.17	7.08	0.0	31.0	275	16	
10:00	6.10	250	18.63	3.16	7.09	0.0	27.0	272	16	
10:05	6.07	250	18.68	3.16	7.10	0.0	22.8	267	16	
10:10	6.08	250	18.71	3.16	7.11	0.0	20.8	263	16	
10:15	6.12	250	18.73	3.14	7.11	0.0	20.4	258	16	
10:20	6.10	250	18.75	3.14	7.12	0.0	22.3	252	16	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])										
			19	**3.14**	**7.1**	**0**	**22.3**	**250**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [X] PID MiniRAE 3000
- [X] WQ METER Horiba U-52
- [X] TURB. METER Horiba U-52
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
x	TCL VOCS + 10 TICS	8260	No	HCl	25 ml	Yes	No	See COC
x	PFAS	537 mod.	No	None	250 ml	Yes	No	See COC
x	1,4-dioxane	8270 SIM	No	None	1 L	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [X]

NUMBER OF GALLONS GENERATED: 3.90

NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Interior of well was rusted.

Sampler Signature: Lexie Lill Print Name: Lexie Lill

Checked By: Justin King Date: 11/19/2020

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Mahopac BD	**LOCATION ID**	MW-02I
PROJECT NUMBER	386554.0000.0000	**DATE**	10/21/2020
SAMPLE ID	MW-02I	**START TIME**	8:15
SAMPLE TIME	9:00	**END TIME**	9:10
		SITE NAME/NUMBER	340013
		PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER Unknown

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	4.38 FT	**FINAL DTW (BMP)**	4.80 FT	**PROT. CASING STICKUP (AGS)**	- FT	**TOC/TOR DIFFERENCE**	- FT
WELL DEPTH (BMP)	48.06 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	- SEC
WATER COLUMN	43.68 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	- SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	7.16 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	2.60 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	- PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
8:15	**BEGIN PURGING**									
8:20	4.71	250	17.17	1.75	6.68	0.31	42.5	291	45	
8:25	4.75	250	16.98	1.73	6.90	0.06	36.4	280	45	
8:30	4.85	250	16.82	1.70	6.94	0.0	42.3	275	45	
8:35	4.97	250	16.65	1.67	6.94	0.0	36.8	270	45	
8:40	5.02	250	16.58	1.65	6.93	0.0	34.0	268	45	
8:45	5.00	250	16.54	1.64	6.92	0.0	40.6	267	45	
8:50	4.90	250	16.47	1.62	6.90	0.0	34.5	264	45	
8:55	4.80	250	16.46	1.61	6.90	0.0	29.8	263	45	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

	16	**1.61**	**6.9**	**0**	**29.8**	**260**

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [X] PID MiniRAE 3000
- [X] WQ METER Horiba U-52
- [X] TURB. METER Horiba U-52
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
x	TCL VOCS + 10 TICS	8260	No	HCl	25 ml	Yes	No	See COC
x	PFAS	537 mod.	No	None	250 ml	Yes	No	See COC
x	1,4-dioxane	8270 SIM	No	None	1 L	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [X]

NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

NUMBER OF GALLONS GENERATED: 2.60

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Interior of well was rusted.

Sampler Signature: Lexie Lill Print Name: Lexie Lill

Checked By: Justin King Date: 11/19/2020

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Mahopac BD	**LOCATION ID**	MW-02D
PROJECT NUMBER	386554.0000.0000	**DATE**	10/23/2020
SAMPLE ID	MW-02D	**START TIME**	8:40
SAMPLE TIME	N/A	**END TIME**	9:10
		SITE NAME/NUMBER	340013
		PAGE	1 OF 2

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER Unknown

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	4.86 FT	**FINAL DTW (BMP)**	4.63 FT	**PROT. CASING STICKUP (AGS)**	- FT	**TOC/TOR DIFFERENCE**	- FT
WELL DEPTH (BMP)	337.8 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	- SEC
WATER COLUMN	332.94 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	- SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	54.60 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	1.95 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	- PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
8:40	**BEGIN PURGING**									
8:45	4.86	250	18.51	1.04	7.71	2.77	67.9	320	152	
8:50	4.6	250	18.18	1.04	7.24	2.30	67.3	337	152	
8:55	4.65	250	18.05	1.04	6.95	2.33	54.3	349	152	
9:00	4.53	250	18.06	1.03	6.85	2.01	45.7	353	152	
9:05	4.53	250	18.11	1.04	6.81	1.59	46.7	355	152	
9:10	4.63	250	18.21	1.04	6.77	1.27	43.2	358	152	Could not collect sample with bladder pump due to equipment malfunctions.

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] PERISTALTIC
- [ ] SUBMERSIBLE
- [X] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER Heron
- [X] PID MiniRAE 3000
- [X] WQ METER Horiba U-52
- [X] TURB. METER Horiba U-52
- [X] PUMP Pine Bladder Pump
- [ ] OTHER _____
- [ ] FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
x	TCL VOCS + 10 TICS	8260	No	HCl	25 ml	No	No	See COC
x	PFAS	537 mod.	No	None	250 ml	No	No	See COC
x	1,4-dioxane	8270 SIM	No	None	1 L	No	No	See COC

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED		X
NO-PURGE METHOD UTILIZED		

NUMBER OF GALLONS GENERATED: 1.95

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Interior of well was rusted.

Sampler Signature: Lexie Lill

Print Name: Lexie Lill

Checked By: Justin King

Date: 11/19/2020

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Mahopac BD
PROJECT NUMBER	386554.0000.0000
SAMPLE ID	MW-02D
SAMPLE TIME	11:05

LOCATION ID	MW-02D
DATE	10/23/2020
START TIME	9:50
END TIME	11:10
SITE NAME/NUMBER	340013
PAGE	2 OF 2

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER Unknown

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	5.62 FT	**FINAL DTW (BMP)**	4.52 FT	**PROT. CASING STICKUP (AGS)**	- FT	**TOC/TOR DIFFERENCE**	- FT
WELL DEPTH (BMP)	337.8 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	- SEC
WATER COLUMN	332.18 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	- SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	54.48 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	4.55 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	- PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
9:50	**BEGIN PURGING**									
10:00	4.52	250	17.48	1.04	7.65	0.82	78.9	344	75	
10:05	4.49	250	17.42	1.03	7.67	0.58	78.5	342	75	
10:10	4.5	250	17.35	1.02	7.68	0.50	77.7	340	75	
10:15	4.49	250	17.24	1.03	7.67	0.43	73.1	339	75	
10:20	4.45	250	17.18	1.03	7.73	0.39	71.1	337	75	
10:25	4.43	250	17.11	1.03	7.72	0.38	69.6	336	75	
10:30	4.41	250	17.04	1.03	7.77	0.41	67.8	336	75	
10:35	4.52	250	17.07	1.03	7.78	0.41	65.4	335	75	
10:40	4.57	250	17.06	1.03	7.8	0.36	62.3	334	75	
10:45	4.53	250	17.06	1.03	7.81	0.39	62.8	334	75	
10:50	4.52	250	17.00	1.03	7.87	0.33	65.5	333	75	
10:55	4.55	250	16.99	1.03	7.84	0.31	64.3	332	75	
11:00	4.52	250	16.97	1.03	7.87	0.29	62.3	332	75	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])			**17**	**1.03**	**7.9**	**0.3**	**62.3**	**330**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] WATTERA
- [ ] OTHER
- [ ] OTHER

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER
- [ ] OTHER

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER
- [ ] OTHER
- [ ] OTHER

EQUIPMENT USED
- [X] WL METER Heron
- [X] PID MiniRAE 3000
- [X] WQ METER Horiba U-52
- [X] TURB. METER Horiba U-52
- [X] PUMP Pine Peri Pump
- [ ] OTHER
- [ ] FILTERS NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
x	TCL VOCS + 10 TICS	8260	No	HCl	25 ml	Yes	DUP, MS/MSD	See COC
x	PFAS	537 mod.	No	None	250 ml	Yes	DUP, MS/MSD	See COC
x	1,4-dioxane	8270 SIM	No	None	1 L	Yes	DUP, MS/MSD	See COC

PURGE OBSERVATIONS

	YES	NO
PURGE WATER CONTAINERIZED	[ ]	[X]
NO-PURGE METHOD UTILIZED	[ ]	[ ]

NUMBER OF GALLONS GENERATED: 4.55

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Interior of well was rusted.

Sampler Signature: Lexie Lill Print Name: Lexie Lill

Checked By: Justin King Date: 11/19/2020

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME	Mahopac BD	**LOCATION ID**	MW-03I
PROJECT NUMBER	386554.0000.0000	**DATE**	10/21/2020
SAMPLE ID	MW-03I	**START TIME**	13:10
SAMPLE TIME	14:30	**END TIME**	14:35
		SITE NAME/NUMBER	340013
		PAGE	1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER Unknown

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	4.02 FT	**FINAL DTW (BMP)**	4.23 FT	**PROT. CASING STICKUP (AGS)**	- FT	**TOC/TOR DIFFERENCE**	- FT
WELL DEPTH (BMP)	65.49 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	- SEC
WATER COLUMN	61.47 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	- SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	10.08 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	5.20 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	- PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
13:10	**BEGIN PURGING**									
13:15	4.25	250	16.51	0.669	6.51	1.90	710	341	60	
13:25	4.31	250	16.28	0.952	6.57	1.31	580	338	60	
13:35	4.32	250	16.11	1.130	6.60	0.82	405	334	60	
13:45	4.20	250	16.21	1.460	6.61	0.63	378	326	60	
13:55	4.30	250	15.98	1.480	6.58	0.62	315	321	60	
14:05	4.29	250	15.90	1.590	6.60	0.52	107	314	60	
14:10	4.30	250	15.87	1.640	6.61	0.41	49.0	306	60	
14:15	4.28	250	15.89	1.680	6.63	0.37	29.4	294	60	
14:20	4.22	250	15.89	1.710	6.65	0.35	22.2	278	60	
14:25	4.24	250	15.88	1.720	6.65	0.34	20.8	273	60	
14:30	4.23	250	15.84	1.750	6.66	0.28	20.3	265	60	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])										
			16	**1.75**	**6.7**	**0.3**	**20.3**	**270**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [X] PERISTALTIC
- [ ] SUBMERSIBLE
- [ ] BLADDER
- [ ] _____
- [ ] WATTERA
- [ ] OTHER _____
- [ ] OTHER _____

DECON FLUIDS USED
- [ ] LIQUINOX
- [ ] DEIONIZED WATER
- [ ] POTABLE WATER
- [ ] NITRIC ACID
- [ ] HEXANE
- [ ] METHANOL
- [ ] OTHER _____

TUBING/PUMP/BLADDER MATERIALS
- [X] SILICON TUBING
- [ ] TEFLON TUBING
- [ ] TEFLON LINED TUBING
- [X] HDPE TUBING
- [ ] LDPE TUBING
- [ ] OTHER _____
- [ ] OTHER _____

- [ ] S. STEEL PUMP MATERIAL
- [ ] PVC PUMP MATERIAL
- [ ] GEOPROBE SCREEN
- [ ] TEFLON BLADDER
- [ ] OTHER _____
- [ ] OTHER _____
- [ ] OTHER _____

EQUIPMENT USED
- [X] WL METER Heron
- [X] PID MiniRAE 3000
- [X] WQ METER Horiba U-52
- [X] TURB. METER Horiba U-52
- [X] PUMP Pine Peri Pump
- [ ] OTHER _____
- [ ] FILTERS NO. ___ TYPE _____

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
x	TCL VOCS + 10 TICS	8260	No	HCl	25 ml	Yes	No	See COC
x	PFAS	537 mod.	No	None	250 ml	Yes	No	See COC
x	1,4-dioxane	8270 SIM	No	None	1 L	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES [ ] NO [X]

NO-PURGE METHOD UTILIZED: YES [ ] NO [ ]

NUMBER OF GALLONS GENERATED: 5.20

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Interior of well was rusted.

Sampler Signature: Lexie Lill Print Name: Lexie Lill

Checked By: Justin King Date: 11/19/2020

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME		LOCATION ID		DATE	
	Mahopac BD		MW-06		10/21/2020
PROJECT NUMBER		START TIME		END TIME	
	386554.0000.0000		10:45		12:00
SAMPLE ID	SAMPLE TIME	SITE NAME/NUMBER		PAGE	
MW-06	11:55		340013		1 OF 1

WELL DIAMETER (INCHES) [ ] 1 [ ] 2 [ ] 4 [ ] 6 [ ] 8 [X] OTHER Unknown

TUBING ID (INCHES) [ ] 1/8 [X] 1/4 [ ] 3/8 [ ] 1/2 [ ] 5/8 [ ] OTHER

MEASUREMENT POINT (MP) [ ] TOP OF RISER (TOR) [X] TOP OF CASING (TOC) [ ] OTHER

WELL INTEGRITY

	YES	NO	N/A
CAP	x		
CASING	x		
LOCKED		x	
COLLAR	x		

INITIAL DTW (BMP)	3.87 FT	**FINAL DTW (BMP)**	4.03 FT	**PROT. CASING STICKUP (AGS)**	- FT	**TOC/TOR DIFFERENCE**	- FT
WELL DEPTH (BMP)	45.1 FT	**SCREEN LENGTH**	FT	**PID AMBIENT AIR**	0.0 PPM	**REFILL TIMER SETTING**	- SEC
WATER COLUMN	41.23 FT	**DRAWDOWN VOLUME** (final DTW - initial DTW X well diam. squared X 0.041)	GAL	**PID WELL MOUTH**	0.0 PPM	**DISCHARGE TIMER SETTING**	- SEC
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	6.76 GAL	**TOTAL VOL. PURGED** (mL per minute X total minutes X 0.00026 gal/mL)	4.23 GAL	**DRAWDOWN/ TOTAL PURGED**		**PRESSURE TO PUMP**	- PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O_2 (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:45	**BEGIN PURGING**									
10:50	4.15	250	16.44	0.970	6.42	0.0	348	309	40	
11:00	4.18	250	16.11	0.976	6.32	0.0	293	308	40	
11:05	3.82	250	16.02	0.975	6.32	0.0	239	305	40	
11:10	4.12	250	16.00	0.974	6.34	0.0	216	302	40	
11:15	4.12	250	15.99	0.973	6.34	0.0	204	301	40	
11:20	4.05	250	16.00	0.972	6.34	0.0	113	299	40	
11:25	4.02	250	15.98	0.971	6.34	0.0	50.1	298	40	
11:30	3.69	250	15.95	0.971	6.33	0.0	22.7	297	40	
11:35	4.07	250	15.94	0.971	6.33	0.0	16.8	296	40	
11:40	4.03	250	15.94	0.971	6.33	0.0	15.5	295	40	
11:45	4.03	250	15.91	0.972	6.32	0.0	13.7	294	40	
11:50	4.03	250	15.90	0.972	6.33	0.0	12.2	293	40	
FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])										
			16	**0.972**	**6.3**	**0.0**	**12.2**	**290**		

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 3 SF max (ex. 3333 = 3330, 0.696 = 0.696)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP	DECON FLUIDS USED	TUBING/PUMP/BLADDER MATERIALS		EQUIPMENT USED	
[X] PERISTALTIC	[ ] LIQUINOX	[X] SILICON TUBING	[ ] S. STEEL PUMP MATERIAL	[X] WL METER	Heron
[ ] SUBMERSIBLE	[ ] DEIONIZED WATER	[ ] TEFLON TUBING	[ ] PVC PUMP MATERIAL	[X] PID	MiniRAE 3000
[ ] BLADDER	[ ] POTABLE WATER	[ ] TEFLON LINED TUBING	[ ] GEOPROBE SCREEN	[X] WQ METER	Horiba U-52
	[ ] NITRIC ACID	[X] HDPE TUBING	[ ] TEFLON BLADDER	[X] TURB. METER	Horiba U-52
[ ] WATTERA	[ ] HEXANE	[ ] LDPE TUBING	[ ] OTHER	[X] PUMP	Pine Peri Pump
[ ] OTHER	[ ] METHANOL	[ ] OTHER	[ ] OTHER	[ ] OTHER	
[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] OTHER	[ ] FILTERS	NO. TYPE

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
x	TCL VOCS + 10 TICS	8260	No	HCl	25 ml	Yes	No	See COC
x	PFAS	537 mod.	No	None	250 ml	Yes	No	See COC
x	1,4-dioxane	8270 SIM	No	None	1 L	Yes	No	See COC

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED — YES [ ] NO [X]

NUMBER OF GALLONS GENERATED: 4.23

NO-PURGE METHOD UTILIZED — YES [ ] NO [ ]

If yes, purged approximately 1 standing volume prior to sampling or _____mL for this sample location.

SKETCH/NOTES

Interior of well was rusted.

Sampler Signature: Lexie Lill Print Name: Lexie Lill

Checked By: Justin King Date: 11/19/2020

APPENDIX D

SUMMARY LABORATORY ANALYTICAL REPORT

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 480-177077-1
Client Project/Site: SMP B - Mahopac Business District Wells

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

Attn: Brianna Scharf

Authorized for release by:
10/31/2020 11:46:49 AM

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

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

Judy Stone
Senior Project Manager
10/31/2020 11:46:49 AM

Table of Contents

Definitions/Glossary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Indicates an Estimated Value for TICs
N	Presumptive evidence of material.
T	Result is a tentatively identified compound (TIC) and an estimated value.

GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.

LCMS

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

Glossary

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

Job ID: 480-177077-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-177077-1

Receipt
The samples were received on 10/24/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 2.5º C, 2.9º C and 3.1º C.

GC/MS VOA
Method 8260C: Surrogate recovery for the following sample was outside the upper control limit: MW-09S (480-177077-5). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-09S (480-177077-5), MW-10S (480-177077-6), MW-04S (480-177077-9) and MW-08S (480-177077-11). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-555715 recovered outside acceptance criteria, low biased, for 2-Hexanone and 2-Butanone (MEK). A reporting limit (RL) standard was analyzed, and the target analytes was detected. Since the associated samples were non-detect for these analytes, the data have been reported. The associated samples are impacted: DUP (480-177077-4), MW-09S (480-177077-5), MW-10S (480-177077-6), MW-06 (480-177077-7), MW-11S (480-177077-8), MW-04S (480-177077-9), MW-03I (480-177077-10), MW-08S (480-177077-11) and TRIP BLANK (480-177077-12).

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

GC/MS Semi VOA
Method 8270D SIM ID: The 1,4-Dioxane result reported for sample (LCS 480-555817/2-A) has an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

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

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

Organic Prep
Method 3535: The following samples contained a thin layer of sediment at the bottom of the bottle prior to extraction: MW-02I (480-177077-1), MW-02S (480-177077-2), MW-02D (480-177077-3), MW-02D (480-177077-3[MS]), MW-02D (480-177077-3[MSD]), DUP (480-177077-4), MW-06 (480-177077-7) and MW-03I (480-177077-10).

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

Detection Summary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: MW-02I — Lab Sample ID: 480-177077-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.56	J	1.0	0.16	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	43		4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	180		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	85		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	45		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	78		1.7	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	6.4		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	5.5		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.72	J	1.7	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	8.8		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.59	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	28		1.7	0.45	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-02S — Lab Sample ID: 480-177077-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	12		4.1	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	9.0		1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.2		1.6	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.7		1.6	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	28		1.6	0.70	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.5		1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.3		1.6	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.50	J	1.6	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	9.5		1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.3		1.6	0.47	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.44	J	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	46		1.6	0.44	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-02D — Lab Sample ID: 480-177077-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.1	J F1 F2	10	3.0	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	23		4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	59		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	48		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	39		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	69		1.7	0.71	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	14		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	26		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	5.6		1.7	0.92	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	14		1.7	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	2.5		1.7	0.61	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.4		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.40	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	22		1.7	0.45	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: DUP — Lab Sample ID: 480-177077-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.1	J	10	3.0	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	23		4.2	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	58		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	49		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	37		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	65		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	15		1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	27		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	5.2		1.7	0.93	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	14		1.7	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorotetradecanoic acid (PFTeA)	1.7		1.7	0.62	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.1		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.5		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.37	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	21		1.7	0.46	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-09S — Lab Sample ID: 480-177077-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	6.3	J	10	4.4	ug/L	10		8260C	Total/NA

Client Sample ID: MW-10S — Lab Sample ID: 480-177077-6

No Detections.

Client Sample ID: MW-06 — Lab Sample ID: 480-177077-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	15		4.4	2.1	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	43		1.8	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	32		1.8	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	15		1.8	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	38		1.8	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.4		1.8	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	9.4		1.8	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	3.5		1.8	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	6.7		1.8	0.18	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.2		1.8	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.48	J	1.8	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	36		1.8	0.48	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-11S — Lab Sample ID: 480-177077-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.4	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.37	J	1.0	0.19	ug/L	1		8260C	Total/NA
Toluene	5.5		1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: MW-04S — Lab Sample ID: 480-177077-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12	J	40	12	ug/L	4		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample ID: MW-04S (Continued)
Lab Sample ID: 480-177077-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	1.8	J	4.0	1.8	ug/L	4		8260C	Total/NA
Toluene	2.0	J	4.0	2.0	ug/L	4		8260C	Total/NA

Client Sample ID: MW-03I
Lab Sample ID: 480-177077-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.7	J	10	3.0	ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	0.18	J	1.0	0.16	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	6.3		4.1	2.0	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.0		1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.0		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.5		1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	26		1.7	0.70	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	8.5		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	6.3		1.7	0.26	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.95	J	1.7	0.91	ng/L	1		537 (modified)	Total/NA
Perfluorododecanoic acid (PFDoA)	0.88	J	1.7	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.0		1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.8		1.7	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	11		1.7	0.45	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-08S
Lab Sample ID: 480-177077-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.5		4.0	1.8	ug/L	4		8260C	Total/NA

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-177077-12

No Detections.

Client Sample Results

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: MW-02I
Date Collected: 10/21/20 09:00
Date Received: 10/24/20 08:00

Lab Sample ID: 480-177077-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/25/20 15:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/20 15:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/20 15:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/20 15:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/25/20 15:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/20 15:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/20 15:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/25/20 15:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/20 15:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/20 15:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/20 15:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/20 15:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/20 15:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/20 15:31	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/20 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/20 15:31	1
Acetone	ND		10	3.0	ug/L			10/25/20 15:31	1
Benzene	ND		1.0	0.41	ug/L			10/25/20 15:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/20 15:31	1
Bromoform	ND		1.0	0.26	ug/L			10/25/20 15:31	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/20 15:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/25/20 15:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/20 15:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/20 15:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/20 15:31	1
Chloroethane	ND		1.0	0.32	ug/L			10/25/20 15:31	1
Chloroform	ND		1.0	0.34	ug/L			10/25/20 15:31	1
Chloromethane	ND		1.0	0.35	ug/L			10/25/20 15:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/25/20 15:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/20 15:31	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/20 15:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/20 15:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/20 15:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/20 15:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/20 15:31	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/20 15:31	1
Methyl tert-butyl ether	**0.56**	**J**	1.0	0.16	ug/L			10/25/20 15:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/20 15:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/20 15:31	1
Styrene	ND		1.0	0.73	ug/L			10/25/20 15:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/20 15:31	1
Toluene	ND		1.0	0.51	ug/L			10/25/20 15:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/20 15:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/20 15:31	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/20 15:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/20 15:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/25/20 15:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/20 15:31	1

Client Sample ID: MW-02I
Date Collected: 10/21/20 09:00
Date Received: 10/24/20 08:00

Lab Sample ID: 480-177077-1
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/25/20 15:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/25/20 15:31	1
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		10/25/20 15:31	1
4-Bromofluorobenzene (Surr)	97		73 - 120		10/25/20 15:31	1
Dibromofluoromethane (Surr)	103		75 - 123		10/25/20 15:31	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/26/20 15:19	10/28/20 17:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110	10/26/20 15:19	10/28/20 17:58	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**43**		4.2	2.0	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluoropentanoic acid (PFPeA)	**180**		1.7	0.41	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorohexanoic acid (PFHxA)	**85**		1.7	0.49	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluoroheptanoic acid (PFHpA)	**45**		1.7	0.21	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorooctanoic acid (PFOA)	**78**		1.7	0.71	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorononanoic acid (PFNA)	**6.4**		1.7	0.23	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorodecanoic acid (PFDA)	**5.5**		1.7	0.26	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.92	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorododecanoic acid (PFDoA)	**0.72**	**J**	1.7	0.46	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.61	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorobutanesulfonic acid (PFBS)	**8.8**		1.7	0.17	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorohexanesulfonic acid (PFHxS)	**3.9**		1.7	0.48	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.59**	**J**	1.7	0.16	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorooctanesulfonic acid (PFOS)	**28**		1.7	0.45	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27	ng/L		10/26/20 18:56	10/27/20 21:30	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.82	ng/L		10/26/20 18:56	10/27/20 21:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	1.0	ng/L		10/26/20 18:56	10/27/20 21:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	1.1	ng/L		10/26/20 18:56	10/27/20 21:30	1
6:2 FTS	ND		4.2	2.1	ng/L		10/26/20 18:56	10/27/20 21:30	1
8:2 FTS	ND		1.7	0.39	ng/L		10/26/20 18:56	10/27/20 21:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	50		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C5 PFPeA	63		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C2 PFHxA	72		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C4 PFHpA	84		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C4 PFOA	82		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C5 PFNA	87		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C2 PFDA	92		25 - 150	10/26/20 18:56	10/27/20 21:30	1

Client Sample ID: MW-02I
Date Collected: 10/21/20 09:00
Date Received: 10/24/20 08:00

Lab Sample ID: 480-177077-1
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	91		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C2 PFDoA	77		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C2 PFTeDA	88		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C3 PFBS	78		25 - 150	10/26/20 18:56	10/27/20 21:30	1
18O2 PFHxS	83		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C4 PFOS	79		25 - 150	10/26/20 18:56	10/27/20 21:30	1
13C8 FOSA	83		25 - 150	10/26/20 18:56	10/27/20 21:30	1
d3-NMeFOSAA	68		25 - 150	10/26/20 18:56	10/27/20 21:30	1
d5-NEtFOSAA	85		25 - 150	10/26/20 18:56	10/27/20 21:30	1
M2-6:2 FTS	108		25 - 150	10/26/20 18:56	10/27/20 21:30	1
M2-8:2 FTS	103		25 - 150	10/26/20 18:56	10/27/20 21:30	1

Client Sample ID: MW-02S
Date Collected: 10/21/20 10:25
Date Received: 10/24/20 08:00

Lab Sample ID: 480-177077-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/25/20 15:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/20 15:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/20 15:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/20 15:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/25/20 15:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/20 15:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/20 15:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/25/20 15:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/20 15:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/20 15:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/20 15:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/20 15:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/20 15:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/20 15:55	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/20 15:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/20 15:55	1
Acetone	ND		10	3.0	ug/L			10/25/20 15:55	1
Benzene	ND		1.0	0.41	ug/L			10/25/20 15:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/20 15:55	1
Bromoform	ND		1.0	0.26	ug/L			10/25/20 15:55	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/20 15:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/25/20 15:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/20 15:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/20 15:55	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/20 15:55	1
Chloroethane	ND		1.0	0.32	ug/L			10/25/20 15:55	1
Chloroform	ND		1.0	0.34	ug/L			10/25/20 15:55	1
Chloromethane	ND		1.0	0.35	ug/L			10/25/20 15:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/25/20 15:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/20 15:55	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/20 15:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/20 15:55	1

Client Sample ID: MW-02S
Date Collected: 10/21/20 10:25
Date Received: 10/24/20 08:00

Lab Sample ID: 480-177077-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/20 15:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/20 15:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/20 15:55	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/20 15:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/25/20 15:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/20 15:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/20 15:55	1
Styrene	ND		1.0	0.73	ug/L			10/25/20 15:55	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/20 15:55	1
Toluene	ND		1.0	0.51	ug/L			10/25/20 15:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/20 15:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/20 15:55	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/20 15:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/20 15:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/25/20 15:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/20 15:55	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/25/20 15:55*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*10/25/20 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/25/20 15:55*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*10/25/20 15:55*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*10/25/20 15:55*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/26/20 15:19	10/28/20 18:21	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*26*		*15 - 110*	*10/26/20 15:19*	*10/28/20 18:21*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**12**		4.1	2.0	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluoropentanoic acid (PFPeA)	**9.0**		1.6	0.40	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorohexanoic acid (PFHxA)	**7.2**		1.6	0.48	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluoroheptanoic acid (PFHpA)	**5.7**		1.6	0.21	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorooctanoic acid (PFOA)	**28**		1.6	0.70	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorononanoic acid (PFNA)	**8.5**		1.6	0.22	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorodecanoic acid (PFDA)	**2.3**		1.6	0.25	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.90	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorododecanoic acid (PFDoA)	**0.50**	**J**	1.6	0.45	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	1.1	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.60	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorobutanesulfonic acid (PFBS)	**9.5**		1.6	0.16	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorohexanesulfonic acid (PFHxS)	**2.3**		1.6	0.47	ng/L		10/26/20 18:56	10/27/20 21:39	1

Client Sample ID: MW-02S
Lab Sample ID: 480-177077-2

Date Collected: 10/21/20 10:25
Matrix: Water
Date Received: 10/24/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	**0.44**	**J**	1.6	0.16	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorooctanesulfonic acid (PFOS)	**46**		1.6	0.44	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.26	ng/L		10/26/20 18:56	10/27/20 21:39	1
Perfluorooctanesulfonamide (FOSA)	ND		1.6	0.81	ng/L		10/26/20 18:56	10/27/20 21:39	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.99	ng/L		10/26/20 18:56	10/27/20 21:39	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	1.1	ng/L		10/26/20 18:56	10/27/20 21:39	1
6:2 FTS	ND		4.1	2.1	ng/L		10/26/20 18:56	10/27/20 21:39	1
8:2 FTS	ND		1.6	0.38	ng/L		10/26/20 18:56	10/27/20 21:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*44*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C5 PFPeA	*61*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C2 PFHxA	*72*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C4 PFHpA	*81*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C4 PFOA	*86*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C5 PFNA	*91*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C2 PFDA	*91*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C2 PFUnA	*86*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C2 PFDoA	*81*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C2 PFTeDA	*74*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C3 PFBS	*74*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
18O2 PFHxS	*81*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C4 PFOS	*76*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
13C8 FOSA	*79*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
d3-NMeFOSAA	*63*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
d5-NEtFOSAA	*80*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
M2-6:2 FTS	*114*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*
M2-8:2 FTS	*94*		*25 - 150*	*10/26/20 18:56*	*10/27/20 21:39*	*1*

Client Sample ID: MW-02D
Lab Sample ID: 480-177077-3

Date Collected: 10/23/20 11:05
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1 F2	1.0	0.82	ug/L			10/25/20 16:19	1
1,1,2,2-Tetrachloroethane	ND	F1 F2	1.0	0.21	ug/L			10/25/20 16:19	1
1,1,2-Trichloroethane	ND	F1 F2	1.0	0.23	ug/L			10/25/20 16:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 F2	1.0	0.31	ug/L			10/25/20 16:19	1
1,1-Dichloroethane	ND	F1 F2	1.0	0.38	ug/L			10/25/20 16:19	1
1,1-Dichloroethene	ND	F1 F2	1.0	0.29	ug/L			10/25/20 16:19	1
1,2,4-Trichlorobenzene	ND	F1 F2	1.0	0.41	ug/L			10/25/20 16:19	1
1,2-Dibromo-3-Chloropropane	ND	F1 F2	1.0	0.39	ug/L			10/25/20 16:19	1
1,2-Dichlorobenzene	ND	F1 F2	1.0	0.79	ug/L			10/25/20 16:19	1
1,2-Dichloroethane	ND	F1 F2	1.0	0.21	ug/L			10/25/20 16:19	1
1,2-Dichloropropane	ND	F1 F2	1.0	0.72	ug/L			10/25/20 16:19	1
1,3-Dichlorobenzene	ND	F1 F2	1.0	0.78	ug/L			10/25/20 16:19	1
1,4-Dichlorobenzene	ND	F1 F2	1.0	0.84	ug/L			10/25/20 16:19	1

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: MW-02D
Lab Sample ID: 480-177077-3
Date Collected: 10/23/20 11:05
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	F1 F2	10	1.3	ug/L			10/25/20 16:19	1
2-Hexanone	ND	F1 F2	5.0	1.2	ug/L			10/25/20 16:19	1
4-Methyl-2-pentanone (MIBK)	ND	F1 F2	5.0	2.1	ug/L			10/25/20 16:19	1
Acetone	**4.1**	**J F1 F2**	10	3.0	ug/L			10/25/20 16:19	1
Benzene	ND	F1 F2	1.0	0.41	ug/L			10/25/20 16:19	1
Bromodichloromethane	ND	F1 F2	1.0	0.39	ug/L			10/25/20 16:19	1
Bromoform	ND	F1 F2	1.0	0.26	ug/L			10/25/20 16:19	1
Bromomethane	ND	F1 F2	1.0	0.69	ug/L			10/25/20 16:19	1
Carbon disulfide	ND	F1 F2	1.0	0.19	ug/L			10/25/20 16:19	1
Carbon tetrachloride	ND	F1 F2	1.0	0.27	ug/L			10/25/20 16:19	1
Chlorobenzene	ND	F1 F2	1.0	0.75	ug/L			10/25/20 16:19	1
Dibromochloromethane	ND	F1 F2	1.0	0.32	ug/L			10/25/20 16:19	1
Chloroethane	ND	F1 F2	1.0	0.32	ug/L			10/25/20 16:19	1
Chloroform	ND	F1 F2	1.0	0.34	ug/L			10/25/20 16:19	1
Chloromethane	ND	F1 F2	1.0	0.35	ug/L			10/25/20 16:19	1
cis-1,2-Dichloroethene	ND	F1 F2	1.0	0.81	ug/L			10/25/20 16:19	1
cis-1,3-Dichloropropene	ND	F1 F2	1.0	0.36	ug/L			10/25/20 16:19	1
Cyclohexane	ND	F1 F2	1.0	0.18	ug/L			10/25/20 16:19	1
Dichlorodifluoromethane	ND	F1 F2	1.0	0.68	ug/L			10/25/20 16:19	1
Ethylbenzene	ND	F1 F2	1.0	0.74	ug/L			10/25/20 16:19	1
1,2-Dibromoethane	ND	F1 F2	1.0	0.73	ug/L			10/25/20 16:19	1
Isopropylbenzene	ND	F1 F2	1.0	0.79	ug/L			10/25/20 16:19	1
Methyl acetate	ND	F1 F2	2.5	1.3	ug/L			10/25/20 16:19	1
Methyl tert-butyl ether	ND	F1 F2	1.0	0.16	ug/L			10/25/20 16:19	1
Methylcyclohexane	ND	F1 F2	1.0	0.16	ug/L			10/25/20 16:19	1
Methylene Chloride	ND	F1 F2	1.0	0.44	ug/L			10/25/20 16:19	1
Styrene	ND	F1 F2	1.0	0.73	ug/L			10/25/20 16:19	1
Tetrachloroethene	ND	F1 F2	1.0	0.36	ug/L			10/25/20 16:19	1
Toluene	ND	F1 F2	1.0	0.51	ug/L			10/25/20 16:19	1
trans-1,2-Dichloroethene	ND	F1 F2	1.0	0.90	ug/L			10/25/20 16:19	1
trans-1,3-Dichloropropene	ND	F1 F2	1.0	0.37	ug/L			10/25/20 16:19	1
Trichloroethene	ND	F1 F2	1.0	0.46	ug/L			10/25/20 16:19	1
Trichlorofluoromethane	ND	F1 F2	1.0	0.88	ug/L			10/25/20 16:19	1
Vinyl chloride	ND	F1 F2	1.0	0.90	ug/L			10/25/20 16:19	1
Xylenes, Total	ND	F1 F2	2.0	0.66	ug/L			10/25/20 16:19	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/25/20 16:19*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*10/25/20 16:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*10/25/20 16:19*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*10/25/20 16:19*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*10/25/20 16:19*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/26/20 15:19	10/28/20 17:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*25*		*15 - 110*	*10/26/20 15:19*	*10/28/20 17:11*	*1*

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: MW-02D
Lab Sample ID: 480-177077-3
Date Collected: 10/23/20 11:05
Matrix: Water
Date Received: 10/24/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**23**		4.2	2.0	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluoropentanoic acid (PFPeA)	**59**		1.7	0.41	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorohexanoic acid (PFHxA)	**48**		1.7	0.48	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluoroheptanoic acid (PFHpA)	**39**		1.7	0.21	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorooctanoic acid (PFOA)	**69**		1.7	0.71	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorononanoic acid (PFNA)	**14**		1.7	0.23	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorodecanoic acid (PFDA)	**26**		1.7	0.26	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluoroundecanoic acid (PFUnA)	**5.6**		1.7	0.92	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorododecanoic acid (PFDoA)	**14**		1.7	0.46	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorotetradecanoic acid (PFTeA)	**2.5**		1.7	0.61	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorobutanesulfonic acid (PFBS)	**5.4**		1.7	0.17	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorohexanesulfonic acid (PFHxS)	**3.6**		1.7	0.48	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.40**	**J**	1.7	0.16	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorooctanesulfonic acid (PFOS)	**22**		1.7	0.45	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27	ng/L		10/26/20 18:56	10/27/20 22:06	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.82	ng/L		10/26/20 18:56	10/27/20 22:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	1.0	ng/L		10/26/20 18:56	10/27/20 22:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	1.1	ng/L		10/26/20 18:56	10/27/20 22:06	1
6:2 FTS	ND		4.2	2.1	ng/L		10/26/20 18:56	10/27/20 22:06	1
8:2 FTS	ND		1.7	0.38	ng/L		10/26/20 18:56	10/27/20 22:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*63*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C5 PFPeA	*75*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C2 PFHxA	*76*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C4 PFHpA	*75*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C4 PFOA	*79*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C5 PFNA	*86*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C2 PFDA	*77*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C2 PFUnA	*75*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C2 PFDoA	*66*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C2 PFTeDA	*62*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C3 PFBS	*75*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
18O2 PFHxS	*76*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C4 PFOS	*75*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
13C8 FOSA	*76*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
d3-NMeFOSAA	*70*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
d5-NEtFOSAA	*77*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
M2-6:2 FTS	*91*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:06*	*1*

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: DUP
Lab Sample ID: 480-177077-4
Date Collected: 10/22/20 10:30
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/20 12:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/26/20 12:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/26/20 12:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/26/20 12:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/26/20 12:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/26/20 12:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/26/20 12:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/26/20 12:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/26/20 12:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/26/20 12:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/26/20 12:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/26/20 12:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/26/20 12:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/26/20 12:21	1
2-Hexanone	ND		5.0	1.2	ug/L			10/26/20 12:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/26/20 12:21	1
Acetone	**3.1**	**J**	10	3.0	ug/L			10/26/20 12:21	1
Benzene	ND		1.0	0.41	ug/L			10/26/20 12:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/26/20 12:21	1
Bromoform	ND		1.0	0.26	ug/L			10/26/20 12:21	1
Bromomethane	ND		1.0	0.69	ug/L			10/26/20 12:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/26/20 12:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/26/20 12:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/26/20 12:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/26/20 12:21	1
Chloroethane	ND		1.0	0.32	ug/L			10/26/20 12:21	1
Chloroform	ND		1.0	0.34	ug/L			10/26/20 12:21	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/20 12:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/26/20 12:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/26/20 12:21	1
Cyclohexane	ND		1.0	0.18	ug/L			10/26/20 12:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/26/20 12:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/20 12:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/26/20 12:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/26/20 12:21	1
Methyl acetate	ND		2.5	1.3	ug/L			10/26/20 12:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/20 12:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/26/20 12:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/26/20 12:21	1
Styrene	ND		1.0	0.73	ug/L			10/26/20 12:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/26/20 12:21	1
Toluene	ND		1.0	0.51	ug/L			10/26/20 12:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/26/20 12:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/26/20 12:21	1
Trichloroethene	ND		1.0	0.46	ug/L			10/26/20 12:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/26/20 12:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/26/20 12:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/20 12:21	1

Client Sample ID: DUP
Date Collected: 10/22/20 10:30
Date Received: 10/24/20 08:00

Lab Sample ID: 480-177077-4
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/26/20 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	116		80 - 120		10/26/20 12:21	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		10/26/20 12:21	1
4-Bromofluorobenzene (Surr)	93		73 - 120		10/26/20 12:21	1
Dibromofluoromethane (Surr)	112		75 - 123		10/26/20 12:21	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/26/20 15:19	10/28/20 18:45	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	24		15 - 110	10/26/20 15:19	10/28/20 18:45	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	23		4.2	2.0	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluoropentanoic acid (PFPeA)	58		1.7	0.41	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorohexanoic acid (PFHxA)	49		1.7	0.49	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluoroheptanoic acid (PFHpA)	37		1.7	0.21	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorooctanoic acid (PFOA)	65		1.7	0.72	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorononanoic acid (PFNA)	15		1.7	0.23	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorodecanoic acid (PFDA)	27		1.7	0.26	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluoroundecanoic acid (PFUnA)	5.2		1.7	0.93	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorododecanoic acid (PFDoA)	14		1.7	0.46	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorotetradecanoic acid (PFTeA)	1.7		1.7	0.62	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorobutanesulfonic acid (PFBS)	5.1		1.7	0.17	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorohexanesulfonic acid (PFHxS)	3.5		1.7	0.48	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.37	J	1.7	0.16	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorooctanesulfonic acid (PFOS)	21		1.7	0.46	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27	ng/L		10/26/20 18:56	10/27/20 22:34	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.83	ng/L		10/26/20 18:56	10/27/20 22:34	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	1.0	ng/L		10/26/20 18:56	10/27/20 22:34	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	1.1	ng/L		10/26/20 18:56	10/27/20 22:34	1
6:2 FTS	ND		4.2	2.1	ng/L		10/26/20 18:56	10/27/20 22:34	1
8:2 FTS	ND		1.7	0.39	ng/L		10/26/20 18:56	10/27/20 22:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	66		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C5 PFPeA	77		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C2 PFHxA	80		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C4 PFHpA	79		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C4 PFOA	83		25 - 150	10/26/20 18:56	10/27/20 22:34	1

Client Sample ID: DUP
Lab Sample ID: 480-177077-4

Date Collected: 10/22/20 10:30
Matrix: Water
Date Received: 10/24/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	78		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C2 PFDA	79		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C2 PFUnA	84		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C2 PFDoA	70		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C2 PFTeDA	69		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C3 PFBS	76		25 - 150	10/26/20 18:56	10/27/20 22:34	1
18O2 PFHxS	77		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C4 PFOS	78		25 - 150	10/26/20 18:56	10/27/20 22:34	1
13C8 FOSA	78		25 - 150	10/26/20 18:56	10/27/20 22:34	1
d3-NMeFOSAA	71		25 - 150	10/26/20 18:56	10/27/20 22:34	1
d5-NEtFOSAA	78		25 - 150	10/26/20 18:56	10/27/20 22:34	1
M2-6:2 FTS	96		25 - 150	10/26/20 18:56	10/27/20 22:34	1
M2-8:2 FTS	104		25 - 150	10/26/20 18:56	10/27/20 22:34	1

Client Sample ID: MW-09S
Lab Sample ID: 480-177077-5

Date Collected: 10/21/20 11:15
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	8.2	ug/L			10/26/20 12:45	10
1,1,2,2-Tetrachloroethane	ND		10	2.1	ug/L			10/26/20 12:45	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			10/26/20 12:45	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1	ug/L			10/26/20 12:45	10
1,1-Dichloroethane	ND		10	3.8	ug/L			10/26/20 12:45	10
1,1-Dichloroethene	ND		10	2.9	ug/L			10/26/20 12:45	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			10/26/20 12:45	10
1,2-Dibromo-3-Chloropropane	ND		10	3.9	ug/L			10/26/20 12:45	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			10/26/20 12:45	10
1,2-Dichloroethane	ND		10	2.1	ug/L			10/26/20 12:45	10
1,2-Dichloropropane	ND		10	7.2	ug/L			10/26/20 12:45	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			10/26/20 12:45	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			10/26/20 12:45	10
2-Butanone (MEK)	ND		100	13	ug/L			10/26/20 12:45	10
2-Hexanone	ND		50	12	ug/L			10/26/20 12:45	10
4-Methyl-2-pentanone (MIBK)	ND		50	21	ug/L			10/26/20 12:45	10
Acetone	ND		100	30	ug/L			10/26/20 12:45	10
Benzene	ND		10	4.1	ug/L			10/26/20 12:45	10
Bromodichloromethane	ND		10	3.9	ug/L			10/26/20 12:45	10
Bromoform	ND		10	2.6	ug/L			10/26/20 12:45	10
Bromomethane	ND		10	6.9	ug/L			10/26/20 12:45	10
Carbon disulfide	ND		10	1.9	ug/L			10/26/20 12:45	10
Carbon tetrachloride	ND		10	2.7	ug/L			10/26/20 12:45	10
Chlorobenzene	ND		10	7.5	ug/L			10/26/20 12:45	10
Dibromochloromethane	ND		10	3.2	ug/L			10/26/20 12:45	10
Chloroethane	ND		10	3.2	ug/L			10/26/20 12:45	10
Chloroform	ND		10	3.4	ug/L			10/26/20 12:45	10
Chloromethane	ND		10	3.5	ug/L			10/26/20 12:45	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			10/26/20 12:45	10
cis-1,3-Dichloropropene	ND		10	3.6	ug/L			10/26/20 12:45	10

Client Sample ID: MW-09S
Lab Sample ID: 480-177077-5

Date Collected: 10/21/20 11:15
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		10	1.8	ug/L			10/26/20 12:45	10
Dichlorodifluoromethane	ND		10	6.8	ug/L			10/26/20 12:45	10
Ethylbenzene	ND		10	7.4	ug/L			10/26/20 12:45	10
1,2-Dibromoethane	ND		10	7.3	ug/L			10/26/20 12:45	10
Isopropylbenzene	ND		10	7.9	ug/L			10/26/20 12:45	10
Methyl acetate	ND		25	13	ug/L			10/26/20 12:45	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			10/26/20 12:45	10
Methylcyclohexane	ND		10	1.6	ug/L			10/26/20 12:45	10
Methylene Chloride	**6.3**	**J**	10	4.4	ug/L			10/26/20 12:45	10
Styrene	ND		10	7.3	ug/L			10/26/20 12:45	10
Tetrachloroethene	ND		10	3.6	ug/L			10/26/20 12:45	10
Toluene	ND		10	5.1	ug/L			10/26/20 12:45	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			10/26/20 12:45	10
trans-1,3-Dichloropropene	ND		10	3.7	ug/L			10/26/20 12:45	10
Trichloroethene	ND		10	4.6	ug/L			10/26/20 12:45	10
Trichlorofluoromethane	ND		10	8.8	ug/L			10/26/20 12:45	10
Vinyl chloride	ND		10	9.0	ug/L			10/26/20 12:45	10
Xylenes, Total	ND		20	6.6	ug/L			10/26/20 12:45	10

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/26/20 12:45*	*10*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*80 - 120*		*10/26/20 12:45*	*10*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*10/26/20 12:45*	*10*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*10/26/20 12:45*	*10*
Dibromofluoromethane (Surr)	*125*	*X*	*75 - 123*		*10/26/20 12:45*	*10*

Client Sample ID: MW-10S
Lab Sample ID: 480-177077-6

Date Collected: 10/21/20 11:45
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			10/26/20 13:10	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			10/26/20 13:10	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			10/26/20 13:10	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			10/26/20 13:10	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			10/26/20 13:10	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			10/26/20 13:10	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			10/26/20 13:10	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			10/26/20 13:10	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			10/26/20 13:10	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			10/26/20 13:10	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			10/26/20 13:10	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			10/26/20 13:10	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			10/26/20 13:10	4
2-Butanone (MEK)	ND		40	5.3	ug/L			10/26/20 13:10	4
2-Hexanone	ND		20	5.0	ug/L			10/26/20 13:10	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			10/26/20 13:10	4

Client Sample ID: MW-10S
Lab Sample ID: 480-177077-6
Date Collected: 10/21/20 11:45
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		40	12	ug/L			10/26/20 13:10	4
Benzene	ND		4.0	1.6	ug/L			10/26/20 13:10	4
Bromodichloromethane	ND		4.0	1.6	ug/L			10/26/20 13:10	4
Bromoform	ND		4.0	1.0	ug/L			10/26/20 13:10	4
Bromomethane	ND		4.0	2.8	ug/L			10/26/20 13:10	4
Carbon disulfide	ND		4.0	0.76	ug/L			10/26/20 13:10	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			10/26/20 13:10	4
Chlorobenzene	ND		4.0	3.0	ug/L			10/26/20 13:10	4
Dibromochloromethane	ND		4.0	1.3	ug/L			10/26/20 13:10	4
Chloroethane	ND		4.0	1.3	ug/L			10/26/20 13:10	4
Chloroform	ND		4.0	1.4	ug/L			10/26/20 13:10	4
Chloromethane	ND		4.0	1.4	ug/L			10/26/20 13:10	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			10/26/20 13:10	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			10/26/20 13:10	4
Cyclohexane	ND		4.0	0.72	ug/L			10/26/20 13:10	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			10/26/20 13:10	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/26/20 13:10	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			10/26/20 13:10	4
Isopropylbenzene	ND		4.0	3.2	ug/L			10/26/20 13:10	4
Methyl acetate	ND		10	5.2	ug/L			10/26/20 13:10	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			10/26/20 13:10	4
Methylcyclohexane	ND		4.0	0.64	ug/L			10/26/20 13:10	4
Methylene Chloride	ND		4.0	1.8	ug/L			10/26/20 13:10	4
Styrene	ND		4.0	2.9	ug/L			10/26/20 13:10	4
Tetrachloroethene	ND		4.0	1.4	ug/L			10/26/20 13:10	4
Toluene	ND		4.0	2.0	ug/L			10/26/20 13:10	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			10/26/20 13:10	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			10/26/20 13:10	4
Trichloroethene	ND		4.0	1.8	ug/L			10/26/20 13:10	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			10/26/20 13:10	4
Vinyl chloride	ND		4.0	3.6	ug/L			10/26/20 13:10	4
Xylenes, Total	ND		8.0	2.6	ug/L			10/26/20 13:10	4

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/26/20 13:10*	*4*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*10/26/20 13:10*	*4*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*10/26/20 13:10*	*4*
4-Bromofluorobenzene (Surr)	*83*		*73 - 120*		*10/26/20 13:10*	*4*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/26/20 13:10*	*4*

Client Sample ID: MW-06
Lab Sample ID: 480-177077-7
Date Collected: 10/21/20 11:55
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/20 13:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/26/20 13:35	1

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: MW-06
Lab Sample ID: 480-177077-7
Date Collected: 10/21/20 11:55
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/26/20 13:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/26/20 13:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/26/20 13:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/26/20 13:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/26/20 13:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/26/20 13:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/26/20 13:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/26/20 13:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/26/20 13:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/26/20 13:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/26/20 13:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/26/20 13:35	1
2-Hexanone	ND		5.0	1.2	ug/L			10/26/20 13:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/26/20 13:35	1
Acetone	ND		10	3.0	ug/L			10/26/20 13:35	1
Benzene	ND		1.0	0.41	ug/L			10/26/20 13:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/26/20 13:35	1
Bromoform	ND		1.0	0.26	ug/L			10/26/20 13:35	1
Bromomethane	ND		1.0	0.69	ug/L			10/26/20 13:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/26/20 13:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/26/20 13:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/26/20 13:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/26/20 13:35	1
Chloroethane	ND		1.0	0.32	ug/L			10/26/20 13:35	1
Chloroform	ND		1.0	0.34	ug/L			10/26/20 13:35	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/20 13:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/26/20 13:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/26/20 13:35	1
Cyclohexane	ND		1.0	0.18	ug/L			10/26/20 13:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/26/20 13:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/20 13:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/26/20 13:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/26/20 13:35	1
Methyl acetate	ND		2.5	1.3	ug/L			10/26/20 13:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/20 13:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/26/20 13:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/26/20 13:35	1
Styrene	ND		1.0	0.73	ug/L			10/26/20 13:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/26/20 13:35	1
Toluene	ND		1.0	0.51	ug/L			10/26/20 13:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/26/20 13:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/26/20 13:35	1
Trichloroethene	ND		1.0	0.46	ug/L			10/26/20 13:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/26/20 13:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/26/20 13:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/20 13:35	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/26/20 13:35*	*1*

Client Sample ID: MW-06
Date Collected: 10/21/20 11:55
Date Received: 10/24/20 08:00

Lab Sample ID: 480-177077-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*111*		*80 - 120*		*10/26/20 13:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*10/26/20 13:35*	*1*
4-Bromofluorobenzene (Surr)	*86*		*73 - 120*		*10/26/20 13:35*	*1*
Dibromofluoromethane (Surr)	*117*		*75 - 123*		*10/26/20 13:35*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/26/20 15:19	10/28/20 19:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	*28*		*15 - 110*	*10/26/20 15:19*	*10/28/20 19:08*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**15**		4.4	2.1	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluoropentanoic acid (PFPeA)	**43**		1.8	0.43	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorohexanoic acid (PFHxA)	**32**		1.8	0.51	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluoroheptanoic acid (PFHpA)	**15**		1.8	0.22	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorooctanoic acid (PFOA)	**38**		1.8	0.75	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorononanoic acid (PFNA)	**4.4**		1.8	0.24	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorodecanoic acid (PFDA)	**9.4**		1.8	0.27	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.97	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorododecanoic acid (PFDoA)	**3.5**		1.8	0.49	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.1	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.64	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorobutanesulfonic acid (PFBS)	**6.7**		1.8	0.18	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorohexanesulfonic acid (PFHxS)	**3.2**		1.8	0.50	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.48**	**J**	1.8	0.17	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorooctanesulfonic acid (PFOS)	**36**		1.8	0.48	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28	ng/L		10/26/20 18:56	10/27/20 22:43	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.87	ng/L		10/26/20 18:56	10/27/20 22:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	1.1	ng/L		10/26/20 18:56	10/27/20 22:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	1.1	ng/L		10/26/20 18:56	10/27/20 22:43	1
6:2 FTS	ND		4.4	2.2	ng/L		10/26/20 18:56	10/27/20 22:43	1
8:2 FTS	ND		1.8	0.41	ng/L		10/26/20 18:56	10/27/20 22:43	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	*55*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*
13C5 PFPeA	*70*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*
13C2 PFHxA	*79*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*
13C4 PFHpA	*86*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*
13C4 PFOA	*90*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*
13C5 PFNA	*90*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*
13C2 PFDA	*83*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*
13C2 PFUnA	*93*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*
13C2 PFDoA	*85*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*
13C2 PFTeDA	*85*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:43*	*1*

Client Sample ID: MW-06
Lab Sample ID: 480-177077-7
Date Collected: 10/21/20 11:55
Matrix: Water
Date Received: 10/24/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	78		25 - 150	10/26/20 18:56	10/27/20 22:43	1
18O2 PFHxS	80		25 - 150	10/26/20 18:56	10/27/20 22:43	1
13C4 PFOS	79		25 - 150	10/26/20 18:56	10/27/20 22:43	1
13C8 FOSA	81		25 - 150	10/26/20 18:56	10/27/20 22:43	1
d3-NMeFOSAA	69		25 - 150	10/26/20 18:56	10/27/20 22:43	1
d5-NEtFOSAA	87		25 - 150	10/26/20 18:56	10/27/20 22:43	1
M2-6:2 FTS	85		25 - 150	10/26/20 18:56	10/27/20 22:43	1
M2-8:2 FTS	85		25 - 150	10/26/20 18:56	10/27/20 22:43	1

Client Sample ID: MW-11S
Lab Sample ID: 480-177077-8
Date Collected: 10/21/20 13:30
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/20 14:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/26/20 14:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/26/20 14:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/26/20 14:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/26/20 14:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/26/20 14:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/26/20 14:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/26/20 14:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/26/20 14:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/26/20 14:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/26/20 14:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/26/20 14:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/26/20 14:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/26/20 14:00	1
2-Hexanone	ND		5.0	1.2	ug/L			10/26/20 14:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/26/20 14:00	1
Acetone	**5.4**	**J**	10	3.0	ug/L			10/26/20 14:00	1
Benzene	ND		1.0	0.41	ug/L			10/26/20 14:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/26/20 14:00	1
Bromoform	ND		1.0	0.26	ug/L			10/26/20 14:00	1
Bromomethane	ND		1.0	0.69	ug/L			10/26/20 14:00	1
Carbon disulfide	**0.37**	**J**	1.0	0.19	ug/L			10/26/20 14:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/26/20 14:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/26/20 14:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/26/20 14:00	1
Chloroethane	ND		1.0	0.32	ug/L			10/26/20 14:00	1
Chloroform	ND		1.0	0.34	ug/L			10/26/20 14:00	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/20 14:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/26/20 14:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/26/20 14:00	1
Cyclohexane	ND		1.0	0.18	ug/L			10/26/20 14:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/26/20 14:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/20 14:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/26/20 14:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/26/20 14:00	1

Client Sample ID: MW-11S
Lab Sample ID: 480-177077-8
Date Collected: 10/21/20 13:30
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		2.5	1.3	ug/L			10/26/20 14:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/20 14:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/26/20 14:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/26/20 14:00	1
Styrene	ND		1.0	0.73	ug/L			10/26/20 14:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/26/20 14:00	1
Toluene	**5.5**		1.0	0.51	ug/L			10/26/20 14:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/26/20 14:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/26/20 14:00	1
Trichloroethene	ND		1.0	0.46	ug/L			10/26/20 14:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/26/20 14:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/26/20 14:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/20 14:00	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Isooctanol	*2.6*	*T J N*	*ug/L*		*8.94*	*26952-21-6*		*10/26/20 14:00*	*1*
Unknown	*3.0*	*T J*	*ug/L*		*9.35*			*10/26/20 14:00*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*10/26/20 14:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*10/26/20 14:00*	*1*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*10/26/20 14:00*	*1*
Dibromofluoromethane (Surr)	*114*		*75 - 123*		*10/26/20 14:00*	*1*

Client Sample ID: MW-04S
Lab Sample ID: 480-177077-9
Date Collected: 10/21/20 14:10
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			10/26/20 14:24	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			10/26/20 14:24	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			10/26/20 14:24	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			10/26/20 14:24	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			10/26/20 14:24	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			10/26/20 14:24	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			10/26/20 14:24	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			10/26/20 14:24	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			10/26/20 14:24	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			10/26/20 14:24	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			10/26/20 14:24	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			10/26/20 14:24	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			10/26/20 14:24	4
2-Butanone (MEK)	ND		40	5.3	ug/L			10/26/20 14:24	4
2-Hexanone	ND		20	5.0	ug/L			10/26/20 14:24	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			10/26/20 14:24	4
Acetone	**12**	**J**	40	12	ug/L			10/26/20 14:24	4
Benzene	ND		4.0	1.6	ug/L			10/26/20 14:24	4
Bromodichloromethane	ND		4.0	1.6	ug/L			10/26/20 14:24	4
Bromoform	ND		4.0	1.0	ug/L			10/26/20 14:24	4

Client Sample ID: MW-04S
Lab Sample ID: 480-177077-9
Date Collected: 10/21/20 14:10
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		4.0	2.8	ug/L			10/26/20 14:24	4
Carbon disulfide	ND		4.0	0.76	ug/L			10/26/20 14:24	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			10/26/20 14:24	4
Chlorobenzene	ND		4.0	3.0	ug/L			10/26/20 14:24	4
Dibromochloromethane	ND		4.0	1.3	ug/L			10/26/20 14:24	4
Chloroethane	ND		4.0	1.3	ug/L			10/26/20 14:24	4
Chloroform	ND		4.0	1.4	ug/L			10/26/20 14:24	4
Chloromethane	ND		4.0	1.4	ug/L			10/26/20 14:24	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			10/26/20 14:24	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			10/26/20 14:24	4
Cyclohexane	ND		4.0	0.72	ug/L			10/26/20 14:24	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			10/26/20 14:24	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/26/20 14:24	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			10/26/20 14:24	4
Isopropylbenzene	ND		4.0	3.2	ug/L			10/26/20 14:24	4
Methyl acetate	ND		10	5.2	ug/L			10/26/20 14:24	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			10/26/20 14:24	4
Methylcyclohexane	ND		4.0	0.64	ug/L			10/26/20 14:24	4
Methylene Chloride	**1.8**	**J**	4.0	1.8	ug/L			10/26/20 14:24	4
Styrene	ND		4.0	2.9	ug/L			10/26/20 14:24	4
Tetrachloroethene	ND		4.0	1.4	ug/L			10/26/20 14:24	4
Toluene	**2.0**	**J**	4.0	2.0	ug/L			10/26/20 14:24	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			10/26/20 14:24	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			10/26/20 14:24	4
Trichloroethene	ND		4.0	1.8	ug/L			10/26/20 14:24	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			10/26/20 14:24	4
Vinyl chloride	ND		4.0	3.6	ug/L			10/26/20 14:24	4
Xylenes, Total	ND		8.0	2.6	ug/L			10/26/20 14:24	4

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/26/20 14:24*	*4*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*10/26/20 14:24*	*4*
1,2-Dichloroethane-d4 (Surr)	*107*		*77 - 120*		*10/26/20 14:24*	*4*
4-Bromofluorobenzene (Surr)	*85*		*73 - 120*		*10/26/20 14:24*	*4*
Dibromofluoromethane (Surr)	*118*		*75 - 123*		*10/26/20 14:24*	*4*

Client Sample ID: MW-03I
Lab Sample ID: 480-177077-10
Date Collected: 10/21/20 14:30
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/20 14:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/26/20 14:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/26/20 14:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/26/20 14:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/26/20 14:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/26/20 14:49	1

Client Sample ID: MW-03I
Date Collected: 10/21/20 14:30
Date Received: 10/24/20 08:00

Lab Sample ID: 480-177077-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/26/20 14:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/26/20 14:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/26/20 14:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/26/20 14:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/26/20 14:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/26/20 14:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/26/20 14:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/26/20 14:49	1
2-Hexanone	ND		5.0	1.2	ug/L			10/26/20 14:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/26/20 14:49	1
Acetone	**5.7**	**J**	10	3.0	ug/L			10/26/20 14:49	1
Benzene	ND		1.0	0.41	ug/L			10/26/20 14:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/26/20 14:49	1
Bromoform	ND		1.0	0.26	ug/L			10/26/20 14:49	1
Bromomethane	ND		1.0	0.69	ug/L			10/26/20 14:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/26/20 14:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/26/20 14:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/26/20 14:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/26/20 14:49	1
Chloroethane	ND		1.0	0.32	ug/L			10/26/20 14:49	1
Chloroform	ND		1.0	0.34	ug/L			10/26/20 14:49	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/20 14:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/26/20 14:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/26/20 14:49	1
Cyclohexane	ND		1.0	0.18	ug/L			10/26/20 14:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/26/20 14:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/20 14:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/26/20 14:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/26/20 14:49	1
Methyl acetate	ND		2.5	1.3	ug/L			10/26/20 14:49	1
Methyl tert-butyl ether	**0.18**	**J**	1.0	0.16	ug/L			10/26/20 14:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/26/20 14:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/26/20 14:49	1
Styrene	ND		1.0	0.73	ug/L			10/26/20 14:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/26/20 14:49	1
Toluene	ND		1.0	0.51	ug/L			10/26/20 14:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/26/20 14:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/26/20 14:49	1
Trichloroethene	ND		1.0	0.46	ug/L			10/26/20 14:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/26/20 14:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/26/20 14:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/20 14:49	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/26/20 14:49*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*80 - 120*		*10/26/20 14:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*10/26/20 14:49*	*1*
4-Bromofluorobenzene (Surr)	*80*		*73 - 120*		*10/26/20 14:49*	*1*

Client Sample ID: MW-03I
Date Collected: 10/21/20 14:30
Date Received: 10/24/20 08:00

Lab Sample ID: 480-177077-10
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*116*		*75 - 123*		*10/26/20 14:49*	*1*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/26/20 15:19	10/28/20 19:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	*30*		*15 - 110*	*10/26/20 15:19*	*10/28/20 19:31*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**6.3**		4.1	2.0	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluoropentanoic acid (PFPeA)	**3.0**		1.7	0.41	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorohexanoic acid (PFHxA)	**3.0**		1.7	0.48	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluoroheptanoic acid (PFHpA)	**5.5**		1.7	0.21	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorooctanoic acid (PFOA)	**26**		1.7	0.70	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorononanoic acid (PFNA)	**8.5**		1.7	0.22	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorodecanoic acid (PFDA)	**6.3**		1.7	0.26	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluoroundecanoic acid (PFUnA)	**0.95**	**J**	1.7	0.91	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorododecanoic acid (PFDoA)	**0.88**	**J**	1.7	0.46	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.60	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorobutanesulfonic acid (PFBS)	**4.0**		1.7	0.17	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorohexanesulfonic acid (PFHxS)	**2.8**		1.7	0.47	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorooctanesulfonic acid (PFOS)	**11**		1.7	0.45	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		10/26/20 18:56	10/27/20 22:52	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.81	ng/L		10/26/20 18:56	10/27/20 22:52	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.99	ng/L		10/26/20 18:56	10/27/20 22:52	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	1.1	ng/L		10/26/20 18:56	10/27/20 22:52	1
6:2 FTS	ND		4.1	2.1	ng/L		10/26/20 18:56	10/27/20 22:52	1
8:2 FTS	ND		1.7	0.38	ng/L		10/26/20 18:56	10/27/20 22:52	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	*51*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C5 PFPeA	*65*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C2 PFHxA	*77*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C4 PFHpA	*80*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C4 PFOA	*89*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C5 PFNA	*91*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C2 PFDA	*93*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C2 PFUnA	*84*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C2 PFDoA	*75*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C2 PFTeDA	*84*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C3 PFBS	*78*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*

Client Sample ID: MW-03I
Lab Sample ID: 480-177077-10
Date Collected: 10/21/20 14:30
Matrix: Water
Date Received: 10/24/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
18O2 PFHxS	*85*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C4 PFOS	*80*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
13C8 FOSA	*82*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
d3-NMeFOSAA	*69*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
d5-NEtFOSAA	*85*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
M2-6:2 FTS	*129*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*
M2-8:2 FTS	*111*		*25 - 150*	*10/26/20 18:56*	*10/27/20 22:52*	*1*

Client Sample ID: MW-08S
Lab Sample ID: 480-177077-11
Date Collected: 10/22/20 11:00
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			10/26/20 15:14	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			10/26/20 15:14	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			10/26/20 15:14	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			10/26/20 15:14	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			10/26/20 15:14	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			10/26/20 15:14	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			10/26/20 15:14	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			10/26/20 15:14	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			10/26/20 15:14	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			10/26/20 15:14	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			10/26/20 15:14	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			10/26/20 15:14	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			10/26/20 15:14	4
2-Butanone (MEK)	ND		40	5.3	ug/L			10/26/20 15:14	4
2-Hexanone	ND		20	5.0	ug/L			10/26/20 15:14	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			10/26/20 15:14	4
Acetone	ND		40	12	ug/L			10/26/20 15:14	4
Benzene	ND		4.0	1.6	ug/L			10/26/20 15:14	4
Bromodichloromethane	ND		4.0	1.6	ug/L			10/26/20 15:14	4
Bromoform	ND		4.0	1.0	ug/L			10/26/20 15:14	4
Bromomethane	ND		4.0	2.8	ug/L			10/26/20 15:14	4
Carbon disulfide	ND		4.0	0.76	ug/L			10/26/20 15:14	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			10/26/20 15:14	4
Chlorobenzene	ND		4.0	3.0	ug/L			10/26/20 15:14	4
Dibromochloromethane	ND		4.0	1.3	ug/L			10/26/20 15:14	4
Chloroethane	ND		4.0	1.3	ug/L			10/26/20 15:14	4
Chloroform	ND		4.0	1.4	ug/L			10/26/20 15:14	4
Chloromethane	ND		4.0	1.4	ug/L			10/26/20 15:14	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			10/26/20 15:14	4
cis-1,3-Dichloropropene	ND		4.0	1.4	ug/L			10/26/20 15:14	4
Cyclohexane	ND		4.0	0.72	ug/L			10/26/20 15:14	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			10/26/20 15:14	4
Ethylbenzene	ND		4.0	3.0	ug/L			10/26/20 15:14	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			10/26/20 15:14	4
Isopropylbenzene	ND		4.0	3.2	ug/L			10/26/20 15:14	4
Methyl acetate	ND		10	5.2	ug/L			10/26/20 15:14	4

Client Sample ID: MW-08S
Lab Sample ID: 480-177077-11

Date Collected: 10/22/20 11:00
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			10/26/20 15:14	4
Methylcyclohexane	ND		4.0	0.64	ug/L			10/26/20 15:14	4
Methylene Chloride	**4.5**		4.0	1.8	ug/L			10/26/20 15:14	4
Styrene	ND		4.0	2.9	ug/L			10/26/20 15:14	4
Tetrachloroethene	ND		4.0	1.4	ug/L			10/26/20 15:14	4
Toluene	ND		4.0	2.0	ug/L			10/26/20 15:14	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			10/26/20 15:14	4
trans-1,3-Dichloropropene	ND		4.0	1.5	ug/L			10/26/20 15:14	4
Trichloroethene	ND		4.0	1.8	ug/L			10/26/20 15:14	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			10/26/20 15:14	4
Vinyl chloride	ND		4.0	3.6	ug/L			10/26/20 15:14	4
Xylenes, Total	ND		8.0	2.6	ug/L			10/26/20 15:14	4

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/26/20 15:14*	*4*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*80 - 120*		*10/26/20 15:14*	*4*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*10/26/20 15:14*	*4*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*10/26/20 15:14*	*4*
Dibromofluoromethane (Surr)	*120*		*75 - 123*		*10/26/20 15:14*	*4*

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-177077-12

Date Collected: 10/22/20 00:00
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/20 15:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/26/20 15:38	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/26/20 15:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/26/20 15:38	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/26/20 15:38	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/26/20 15:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/26/20 15:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/26/20 15:38	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/26/20 15:38	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/26/20 15:38	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/26/20 15:38	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/26/20 15:38	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/26/20 15:38	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/26/20 15:38	1
2-Hexanone	ND		5.0	1.2	ug/L			10/26/20 15:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/26/20 15:38	1
Acetone	ND		10	3.0	ug/L			10/26/20 15:38	1
Benzene	ND		1.0	0.41	ug/L			10/26/20 15:38	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/26/20 15:38	1
Bromoform	ND		1.0	0.26	ug/L			10/26/20 15:38	1
Bromomethane	ND		1.0	0.69	ug/L			10/26/20 15:38	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/26/20 15:38	1

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-177077-12
Date Collected: 10/22/20 00:00
Matrix: Water
Date Received: 10/24/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/26/20 15:38	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/26/20 15:38	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/26/20 15:38	1
Chloroethane	ND		1.0	0.32	ug/L			10/26/20 15:38	1
Chloroform	ND		1.0	0.34	ug/L			10/26/20 15:38	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/20 15:38	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/26/20 15:38	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/26/20 15:38	1
Cyclohexane	ND		1.0	0.18	ug/L			10/26/20 15:38	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/26/20 15:38	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/20 15:38	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/26/20 15:38	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/26/20 15:38	1
Methyl acetate	ND		2.5	1.3	ug/L			10/26/20 15:38	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/20 15:38	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/26/20 15:38	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/26/20 15:38	1
Styrene	ND		1.0	0.73	ug/L			10/26/20 15:38	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/26/20 15:38	1
Toluene	ND		1.0	0.51	ug/L			10/26/20 15:38	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/26/20 15:38	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/26/20 15:38	1
Trichloroethene	ND		1.0	0.46	ug/L			10/26/20 15:38	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/26/20 15:38	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/26/20 15:38	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/20 15:38	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/26/20 15:38*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*80 - 120*		*10/26/20 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*10/26/20 15:38*	*1*
4-Bromofluorobenzene (Surr)	*80*		*73 - 120*		*10/26/20 15:38*	*1*
Dibromofluoromethane (Surr)	*110*		*75 - 123*		*10/26/20 15:38*	*1*

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-177077-1	MW-02I	102	106	97	103
480-177077-2	MW-02S	101	101	96	98
480-177077-3	MW-02D	99	105	94	102
480-177077-3 MS	MW-02D	106	97	87	111
480-177077-3 MSD	MW-02D	114	103	90	113
480-177077-4	DUP	116	103	93	112
480-177077-5	MW-09S	111	105	82	125 X
480-177077-6	MW-10S	110	104	83	115
480-177077-7	MW-06	111	107	86	117
480-177077-8	MW-11S	110	105	84	114
480-177077-9	MW-04S	108	107	85	118
480-177077-10	MW-03I	109	101	80	116
480-177077-11	MW-08S	112	108	82	120
480-177077-12	TRIP BLANK	110	105	80	110
LCS 480-555654/5	Lab Control Sample	105	101	102	104
LCS 480-555715/29	Lab Control Sample	105	105	90	110
MB 480-555654/7	Method Blank	102	101	98	98
MB 480-555715/7	Method Blank	108	111	84	115

Surrogate Legend

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

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DXE (15-110)
480-177077-1	MW-02I	26
480-177077-2	MW-02S	26
480-177077-3	MW-02D	25
480-177077-3 MS	MW-02D	25
480-177077-3 MSD	MW-02D	28
480-177077-4	DUP	24
480-177077-7	MW-06	28
480-177077-10	MW-03I	30
LCS 480-555817/2-A	Lab Control Sample	30
MB 480-555817/1-A	Method Blank	29

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
480-177077-1	MW-02I	50	63	72	84	82	87	92	91
480-177077-2	MW-02S	44	61	72	81	86	91	91	86
480-177077-3	MW-02D	63	75	76	75	79	86	77	75
480-177077-3 MS	MW-02D	75	89	94	92	93	92	88	94
480-177077-3 MSD	MW-02D	63	73	79	72	74	81	76	73
480-177077-4	DUP	66	77	80	79	83	78	79	84
480-177077-7	MW-06	55	70	79	86	90	90	83	93
480-177077-10	MW-03I	51	65	77	80	89	91	93	84
LCS 320-425572/2-A	Lab Control Sample	77	81	84	87	86	95	92	97
MB 320-425572/1-A	Method Blank	63	68	67	77	78	78	71	77

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
480-177077-1	MW-02I	77	88	78	83	79	83	68	85
480-177077-2	MW-02S	81	74	74	81	76	79	63	80
480-177077-3	MW-02D	66	62	75	76	75	76	70	77
480-177077-3 MS	MW-02D	76	85	91	90	90	91	84	88
480-177077-3 MSD	MW-02D	71	73	74	77	74	75	71	74
480-177077-4	DUP	70	69	76	77	78	78	71	78
480-177077-7	MW-06	85	85	78	80	79	81	69	87
480-177077-10	MW-03I	75	84	78	85	80	82	69	85
LCS 320-425572/2-A	Lab Control Sample	81	82	83	86	84	78	81	92
MB 320-425572/1-A	Method Blank	68	67	71	71	73	67	66	77

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-177077-1	MW-02I	108	103
480-177077-2	MW-02S	114	94
480-177077-3	MW-02D	91	95
480-177077-3 MS	MW-02D	104	113

Isotope Dilution Summary

Client: New York State D.E.C. Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)								
480-177077-3 MSD	MW-02D	86	92								
480-177077-4	DUP	96	104								
480-177077-7	MW-06	85	85								
480-177077-10	MW-03I	129	111								
LCS 320-425572/2-A	Lab Control Sample	79	83								
MB 320-425572/1-A	Method Blank	71	75								

Surrogate Legend

PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFOSA = 13C8 FOSA
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

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

Lab Sample ID: MB 480-555654/7
Matrix: Water
Analysis Batch: 555654

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/25/20 14:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/25/20 14:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/25/20 14:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/25/20 14:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/25/20 14:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/25/20 14:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/25/20 14:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/25/20 14:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/25/20 14:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/25/20 14:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/25/20 14:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/25/20 14:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/25/20 14:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/25/20 14:15	1
2-Hexanone	ND		5.0	1.2	ug/L			10/25/20 14:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/25/20 14:15	1
Acetone	ND		10	3.0	ug/L			10/25/20 14:15	1
Benzene	ND		1.0	0.41	ug/L			10/25/20 14:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/25/20 14:15	1
Bromoform	ND		1.0	0.26	ug/L			10/25/20 14:15	1
Bromomethane	ND		1.0	0.69	ug/L			10/25/20 14:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/25/20 14:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/25/20 14:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/25/20 14:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/25/20 14:15	1
Chloroethane	ND		1.0	0.32	ug/L			10/25/20 14:15	1
Chloroform	ND		1.0	0.34	ug/L			10/25/20 14:15	1
Chloromethane	ND		1.0	0.35	ug/L			10/25/20 14:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/25/20 14:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/25/20 14:15	1
Cyclohexane	ND		1.0	0.18	ug/L			10/25/20 14:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/25/20 14:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/25/20 14:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/25/20 14:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/25/20 14:15	1
Methyl acetate	ND		2.5	1.3	ug/L			10/25/20 14:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/25/20 14:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/25/20 14:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/25/20 14:15	1
Styrene	ND		1.0	0.73	ug/L			10/25/20 14:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/25/20 14:15	1
Toluene	ND		1.0	0.51	ug/L			10/25/20 14:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/25/20 14:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/25/20 14:15	1
Trichloroethene	ND		1.0	0.46	ug/L			10/25/20 14:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/25/20 14:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/25/20 14:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/25/20 14:15	1

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

Lab Sample ID: MB 480-555654/7
Matrix: Water
Analysis Batch: 555654

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

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					10/25/20 14:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		10/25/20 14:15	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		10/25/20 14:15	1
4-Bromofluorobenzene (Surr)	98		73 - 120		10/25/20 14:15	1
Dibromofluoromethane (Surr)	98		75 - 123		10/25/20 14:15	1

Lab Sample ID: LCS 480-555654/5
Matrix: Water
Analysis Batch: 555654

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.1		ug/L		88	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	76 - 120
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.2		ug/L		93	61 - 148
1,1-Dichloroethane	25.0	23.6		ug/L		94	77 - 120
1,1-Dichloroethene	25.0	22.1		ug/L		88	66 - 127
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	20.1		ug/L		80	56 - 134
1,2-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 124
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	24.6		ug/L		98	76 - 120
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2-Butanone (MEK)	125	126		ug/L		100	57 - 140
2-Hexanone	125	131		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	71 - 125
Acetone	125	119		ug/L		95	56 - 142
Benzene	25.0	23.4		ug/L		94	71 - 124
Bromodichloromethane	25.0	22.9		ug/L		92	80 - 122
Bromoform	25.0	20.1		ug/L		81	61 - 132
Bromomethane	25.0	20.5		ug/L		82	55 - 144
Carbon disulfide	25.0	21.0		ug/L		84	59 - 134
Carbon tetrachloride	25.0	22.1		ug/L		88	72 - 134
Chlorobenzene	25.0	24.2		ug/L		97	80 - 120
Dibromochloromethane	25.0	22.5		ug/L		90	75 - 125
Chloroethane	25.0	23.1		ug/L		92	69 - 136
Chloroform	25.0	22.6		ug/L		90	73 - 127
Chloromethane	25.0	23.7		ug/L		95	68 - 124
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	74 - 124
cis-1,3-Dichloropropene	25.0	23.6		ug/L		95	74 - 124
Cyclohexane	25.0	24.5		ug/L		98	59 - 135
Dichlorodifluoromethane	25.0	24.4		ug/L		98	59 - 135
Ethylbenzene	25.0	24.3		ug/L		97	77 - 123
1,2-Dibromoethane	25.0	23.6		ug/L		95	77 - 120

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

Lab Sample ID: LCS 480-555654/5
Matrix: Water
Analysis Batch: 555654

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	24.3		ug/L		97	77 - 122
Methyl acetate	50.0	48.1		ug/L		96	74 - 133
Methyl tert-butyl ether	25.0	22.8		ug/L		91	77 - 120
Methylcyclohexane	25.0	23.4		ug/L		94	68 - 134
Methylene Chloride	25.0	22.5		ug/L		90	75 - 124
Styrene	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	25.0	23.4		ug/L		94	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	23.4		ug/L		94	80 - 120
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	22.0		ug/L		88	62 - 150
Vinyl chloride	25.0	22.4		ug/L		90	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: MB 480-555715/7
Matrix: Water
Analysis Batch: 555715

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/26/20 11:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/26/20 11:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			10/26/20 11:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			10/26/20 11:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			10/26/20 11:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			10/26/20 11:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			10/26/20 11:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			10/26/20 11:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			10/26/20 11:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			10/26/20 11:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			10/26/20 11:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			10/26/20 11:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			10/26/20 11:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			10/26/20 11:51	1
2-Hexanone	ND		5.0	1.2	ug/L			10/26/20 11:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/26/20 11:51	1
Acetone	ND		10	3.0	ug/L			10/26/20 11:51	1
Benzene	ND		1.0	0.41	ug/L			10/26/20 11:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/26/20 11:51	1
Bromoform	ND		1.0	0.26	ug/L			10/26/20 11:51	1
Bromomethane	ND		1.0	0.69	ug/L			10/26/20 11:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			10/26/20 11:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			10/26/20 11:51	1

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

Lab Sample ID: MB 480-555715/7
Matrix: Water
Analysis Batch: 555715

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			10/26/20 11:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			10/26/20 11:51	1
Chloroethane	ND		1.0	0.32	ug/L			10/26/20 11:51	1
Chloroform	ND		1.0	0.34	ug/L			10/26/20 11:51	1
Chloromethane	ND		1.0	0.35	ug/L			10/26/20 11:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/26/20 11:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			10/26/20 11:51	1
Cyclohexane	ND		1.0	0.18	ug/L			10/26/20 11:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/26/20 11:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/26/20 11:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/26/20 11:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/26/20 11:51	1
Methyl acetate	ND		2.5	1.3	ug/L			10/26/20 11:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/26/20 11:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/26/20 11:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/26/20 11:51	1
Styrene	ND		1.0	0.73	ug/L			10/26/20 11:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/26/20 11:51	1
Toluene	ND		1.0	0.51	ug/L			10/26/20 11:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			10/26/20 11:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			10/26/20 11:51	1
Trichloroethene	ND		1.0	0.46	ug/L			10/26/20 11:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			10/26/20 11:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			10/26/20 11:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			10/26/20 11:51	1

Tentatively Identified Compound	*MB Est. Result*	*MB Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*10/26/20 11:51*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*80 - 120*		*10/26/20 11:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*77 - 120*		*10/26/20 11:51*	*1*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*10/26/20 11:51*	*1*
Dibromofluoromethane (Surr)	*115*		*75 - 123*		*10/26/20 11:51*	*1*

Lab Sample ID: LCS 480-555715/29
Matrix: Water
Analysis Batch: 555715

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	27.2		ug/L		109	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	76 - 120
1,1,2-Trichloroethane	25.0	22.3		ug/L		89	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.3		ug/L		109	61 - 148
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	27.8		ug/L		111	66 - 127
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	79 - 122

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

Lab Sample ID: LCS 480-555715/29
Matrix: Water
Analysis Batch: 555715

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	25.0	24.4		ug/L		98	56 - 134
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	24.1		ug/L		96	76 - 120
1,3-Dichlorobenzene	25.0	23.1		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	21.9		ug/L		88	80 - 120
2-Butanone (MEK)	125	100		ug/L		80	57 - 140
2-Hexanone	125	100		ug/L		80	65 - 127
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	71 - 125
Acetone	125	120		ug/L		96	56 - 142
Benzene	25.0	24.9		ug/L		100	71 - 124
Bromodichloromethane	25.0	24.4		ug/L		98	80 - 122
Bromoform	25.0	22.3		ug/L		89	61 - 132
Bromomethane	25.0	24.2		ug/L		97	55 - 144
Carbon disulfide	25.0	26.5		ug/L		106	59 - 134
Carbon tetrachloride	25.0	28.7		ug/L		115	72 - 134
Chlorobenzene	25.0	22.6		ug/L		90	80 - 120
Dibromochloromethane	25.0	24.6		ug/L		98	75 - 125
Chloroethane	25.0	25.9		ug/L		104	69 - 136
Chloroform	25.0	25.8		ug/L		103	73 - 127
Chloromethane	25.0	26.4		ug/L		106	68 - 124
cis-1,2-Dichloroethene	25.0	26.0		ug/L		104	74 - 124
cis-1,3-Dichloropropene	25.0	21.9		ug/L		88	74 - 124
Cyclohexane	25.0	27.9		ug/L		111	59 - 135
Dichlorodifluoromethane	25.0	25.2		ug/L		101	59 - 135
Ethylbenzene	25.0	23.6		ug/L		95	77 - 123
1,2-Dibromoethane	25.0	21.7		ug/L		87	77 - 120
Isopropylbenzene	25.0	26.8		ug/L		107	77 - 122
Methyl acetate	50.0	43.4		ug/L		87	74 - 133
Methyl tert-butyl ether	25.0	25.7		ug/L		103	77 - 120
Methylcyclohexane	25.0	27.9		ug/L		112	68 - 134
Methylene Chloride	25.0	27.4		ug/L		110	75 - 124
Styrene	25.0	22.4		ug/L		90	80 - 120
Tetrachloroethene	25.0	24.8		ug/L		99	74 - 122
Toluene	25.0	24.4		ug/L		98	80 - 122
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	73 - 127
trans-1,3-Dichloropropene	25.0	22.4		ug/L		90	80 - 120
Trichloroethene	25.0	24.3		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	26.4		ug/L		106	62 - 150
Vinyl chloride	25.0	26.9		ug/L		108	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Dibromofluoromethane (Surr)	*110*		*75 - 123*

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

Lab Sample ID: 480-177077-3 MS
Matrix: Water
Analysis Batch: 555715

Client Sample ID: MW-02D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	F1 F2	25.0	35.0	F1	ug/L		140	73 - 126
1,1,2,2-Tetrachloroethane	ND	F1 F2	25.0	26.0		ug/L		104	76 - 120
1,1,2-Trichloroethane	ND	F1 F2	25.0	24.0		ug/L		96	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 F2	25.0	30.9		ug/L		124	61 - 148
1,1-Dichloroethane	ND	F1 F2	25.0	31.8	F1	ug/L		127	77 - 120
1,1-Dichloroethene	ND	F1 F2	25.0	35.3	F1	ug/L		141	66 - 127
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	31.5	F1	ug/L		126	79 - 122
1,2-Dibromo-3-Chloropropane	ND	F1 F2	25.0	23.5		ug/L		94	56 - 134
1,2-Dichlorobenzene	ND	F1 F2	25.0	30.8		ug/L		123	80 - 124
1,2-Dichloroethane	ND	F1 F2	25.0	25.3		ug/L		101	75 - 120
1,2-Dichloropropane	ND	F1 F2	25.0	26.9		ug/L		108	76 - 120
1,3-Dichlorobenzene	ND	F1 F2	25.0	27.9		ug/L		112	77 - 120
1,4-Dichlorobenzene	ND	F1 F2	25.0	26.5		ug/L		106	78 - 124
2-Butanone (MEK)	ND	F1 F2	125	84.8		ug/L		68	57 - 140
2-Hexanone	ND	F1 F2	125	85.9		ug/L		69	65 - 127
4-Methyl-2-pentanone (MIBK)	ND	F1 F2	125	114		ug/L		91	71 - 125
Acetone	4.1	J F1 F2	125	116		ug/L		89	56 - 142
Benzene	ND	F1 F2	25.0	28.8		ug/L		115	71 - 124
Bromodichloromethane	ND	F1 F2	25.0	26.6		ug/L		106	80 - 122
Bromoform	ND	F1 F2	25.0	20.7		ug/L		83	61 - 132
Bromomethane	ND	F1 F2	25.0	33.6		ug/L		134	55 - 144
Carbon disulfide	ND	F1 F2	25.0	31.8		ug/L		127	59 - 134
Carbon tetrachloride	ND	F1 F2	25.0	35.6	F1	ug/L		143	72 - 134
Chlorobenzene	ND	F1 F2	25.0	26.0		ug/L		104	80 - 120
Dibromochloromethane	ND	F1 F2	25.0	26.0		ug/L		104	75 - 125
Chloroethane	ND	F1 F2	25.0	34.9	F1	ug/L		140	69 - 136
Chloroform	ND	F1 F2	25.0	30.4		ug/L		122	73 - 127
Chloromethane	ND	F1 F2	25.0	34.9	F1	ug/L		140	68 - 124
cis-1,2-Dichloroethene	ND	F1 F2	25.0	32.0	F1	ug/L		128	74 - 124
cis-1,3-Dichloropropene	ND	F1 F2	25.0	21.8		ug/L		87	74 - 124
Cyclohexane	ND	F1 F2	25.0	31.6		ug/L		127	59 - 135
Dichlorodifluoromethane	ND	F1 F2	25.0	29.6		ug/L		119	59 - 135
Ethylbenzene	ND	F1 F2	25.0	27.9		ug/L		112	77 - 123
1,2-Dibromoethane	ND	F1 F2	25.0	22.2		ug/L		89	77 - 120
Isopropylbenzene	ND	F1 F2	25.0	36.7	F1	ug/L		147	77 - 122
Methyl acetate	ND	F1 F2	50.0	37.0		ug/L		74	74 - 133
Methyl tert-butyl ether	ND	F1 F2	25.0	30.5	F1	ug/L		122	77 - 120
Methylcyclohexane	ND	F1 F2	25.0	29.9		ug/L		120	68 - 134
Methylene Chloride	ND	F1 F2	25.0	35.5	F1	ug/L		142	75 - 124
Styrene	ND	F1 F2	25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	ND	F1 F2	25.0	29.1		ug/L		117	74 - 122
Toluene	ND	F1 F2	25.0	29.1		ug/L		116	80 - 122
trans-1,2-Dichloroethene	ND	F1 F2	25.0	33.3	F1	ug/L		133	73 - 127
trans-1,3-Dichloropropene	ND	F1 F2	25.0	22.0		ug/L		88	80 - 120
Trichloroethene	ND	F1 F2	25.0	27.1		ug/L		108	74 - 123
Trichlorofluoromethane	ND	F1 F2	25.0	34.7		ug/L		139	62 - 150
Vinyl chloride	ND	F1 F2	25.0	35.6	F1	ug/L		142	65 - 133

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

Lab Sample ID: 480-177077-3 MS
Matrix: Water
Analysis Batch: 555715

Client Sample ID: MW-02D
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*77 - 120*
4-Bromofluorobenzene (Surr)	*87*		*73 - 120*
Dibromofluoromethane (Surr)	*111*		*75 - 123*

Lab Sample ID: 480-177077-3 MSD
Matrix: Water
Analysis Batch: 555715

Client Sample ID: MW-02D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1 F2	25.0	31.7	F1	ug/L		127	73 - 126	10	15
1,1,2,2-Tetrachloroethane	ND	F1 F2	25.0	25.0		ug/L		100	76 - 120	4	15
1,1,2-Trichloroethane	ND	F1 F2	25.0	24.1		ug/L		96	76 - 122	0	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 F2	25.0	27.9		ug/L		112	61 - 148	10	20
1,1-Dichloroethane	ND	F1 F2	25.0	30.1		ug/L		120	77 - 120	6	20
1,1-Dichloroethene	ND	F1 F2	25.0	32.0	F1	ug/L		128	66 - 127	10	16
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	29.1		ug/L		116	79 - 122	8	20
1,2-Dibromo-3-Chloropropane	ND	F1 F2	25.0	22.3		ug/L		89	56 - 134	5	15
1,2-Dichlorobenzene	ND	F1 F2	25.0	28.5		ug/L		114	80 - 124	8	20
1,2-Dichloroethane	ND	F1 F2	25.0	25.5		ug/L		102	75 - 120	1	20
1,2-Dichloropropane	ND	F1 F2	25.0	26.4		ug/L		106	76 - 120	2	20
1,3-Dichlorobenzene	ND	F1 F2	25.0	26.9		ug/L		108	77 - 120	4	20
1,4-Dichlorobenzene	ND	F1 F2	25.0	25.5		ug/L		102	78 - 124	4	20
2-Butanone (MEK)	ND	F1 F2	125	89.8		ug/L		72	57 - 140	6	20
2-Hexanone	ND	F1 F2	125	88.5		ug/L		71	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	ND	F1 F2	125	114		ug/L		91	71 - 125	0	35
Acetone	4.1	J F1 F2	125	114		ug/L		88	56 - 142	1	15
Benzene	ND	F1 F2	25.0	28.1		ug/L		113	71 - 124	3	13
Bromodichloromethane	ND	F1 F2	25.0	27.5		ug/L		110	80 - 122	3	15
Bromoform	ND	F1 F2	25.0	21.6		ug/L		87	61 - 132	4	15
Bromomethane	ND	F1 F2	25.0	31.3		ug/L		125	55 - 144	7	15
Carbon disulfide	ND	F1 F2	25.0	28.8		ug/L		115	59 - 134	10	15
Carbon tetrachloride	ND	F1 F2	25.0	32.8		ug/L		131	72 - 134	8	15
Chlorobenzene	ND	F1 F2	25.0	25.8		ug/L		103	80 - 120	1	25
Dibromochloromethane	ND	F1 F2	25.0	26.5		ug/L		106	75 - 125	2	15
Chloroethane	ND	F1 F2	25.0	32.0		ug/L		128	69 - 136	9	15
Chloroform	ND	F1 F2	25.0	29.3		ug/L		117	73 - 127	4	20
Chloromethane	ND	F1 F2	25.0	32.5	F1	ug/L		130	68 - 124	7	15
cis-1,2-Dichloroethene	ND	F1 F2	25.0	29.6		ug/L		119	74 - 124	8	15
cis-1,3-Dichloropropene	ND	F1 F2	25.0	23.1		ug/L		92	74 - 124	6	15
Cyclohexane	ND	F1 F2	25.0	29.0		ug/L		116	59 - 135	9	20
Dichlorodifluoromethane	ND	F1 F2	25.0	28.4		ug/L		114	59 - 135	4	20
Ethylbenzene	ND	F1 F2	25.0	27.1		ug/L		109	77 - 123	3	15
1,2-Dibromoethane	ND	F1 F2	25.0	22.8		ug/L		91	77 - 120	3	15
Isopropylbenzene	ND	F1 F2	25.0	34.5	F1	ug/L		138	77 - 122	6	20
Methyl acetate	ND	F1 F2	50.0	38.9		ug/L		78	74 - 133	5	20
Methyl tert-butyl ether	ND	F1 F2	25.0	27.9		ug/L		111	77 - 120	9	37
Methylcyclohexane	ND	F1 F2	25.0	27.8		ug/L		111	68 - 134	7	20

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

Lab Sample ID: 480-177077-3 MSD
Matrix: Water
Analysis Batch: 555715

Client Sample ID: MW-02D
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND	F1 F2	25.0	32.4	F1	ug/L		130	75 - 124	9	15
Styrene	ND	F1 F2	25.0	24.2		ug/L		97	80 - 120	3	20
Tetrachloroethene	ND	F1 F2	25.0	28.9		ug/L		116	74 - 122	1	20
Toluene	ND	F1 F2	25.0	29.0		ug/L		116	80 - 122	0	15
trans-1,2-Dichloroethene	ND	F1 F2	25.0	30.9		ug/L		124	73 - 127	7	20
trans-1,3-Dichloropropene	ND	F1 F2	25.0	23.4		ug/L		94	80 - 120	6	15
Trichloroethene	ND	F1 F2	25.0	27.1		ug/L		108	74 - 123	0	16
Trichlorofluoromethane	ND	F1 F2	25.0	31.3		ug/L		125	62 - 150	10	20
Vinyl chloride	ND	F1 F2	25.0	33.0		ug/L		132	65 - 133	8	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*114*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*90*		*73 - 120*
Dibromofluoromethane (Surr)	*113*		*75 - 123*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-555817/1-A
Matrix: Water
Analysis Batch: 556213

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 555817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		10/26/20 15:19	10/28/20 14:47	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8	*29*		*15 - 110*	*10/26/20 15:19*	*10/28/20 14:47*	*1*

Lab Sample ID: LCS 480-555817/2-A
Matrix: Water
Analysis Batch: 556213

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 555817

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			1.00	1.20	E	ug/L		120	40 - 140		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8	*30*		*15 - 110*

Lab Sample ID: 480-177077-3 MS
Matrix: Water
Analysis Batch: 556213

Client Sample ID: MW-02D
Prep Type: Total/NA
Prep Batch: 555817

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane	ND		1.00	1.18		ug/L		118	40 - 140		

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
1,4-Dioxane-d8	*25*		*15 - 110*

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 480-177077-3 MSD
Matrix: Water
Analysis Batch: 556213

Client Sample ID: MW-02D
Prep Type: Total/NA
Prep Batch: 555817

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		1.00	1.18		ug/L		118	40 - 140	1	20

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Dioxane-d8	*28*		*15 - 110*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-425572/1-A
Matrix: Water
Analysis Batch: 425872

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 425572

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0	2.4	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	1.3	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.73	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		10/26/20 18:56	10/27/20 20:17	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.98	ng/L		10/26/20 18:56	10/27/20 20:17	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	1.2	ng/L		10/26/20 18:56	10/27/20 20:17	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	1.3	ng/L		10/26/20 18:56	10/27/20 20:17	1
6:2 FTS	ND		5.0	2.5	ng/L		10/26/20 18:56	10/27/20 20:17	1
8:2 FTS	ND		2.0	0.46	ng/L		10/26/20 18:56	10/27/20 20:17	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C4 PFBA	*63*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*
13C5 PFPeA	*68*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*
13C2 PFHxA	*67*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*
13C4 PFHpA	*77*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*
13C4 PFOA	*78*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*
13C5 PFNA	*78*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*
13C2 PFDA	*71*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*
13C2 PFUnA	*77*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*
13C2 PFDoA	*68*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*
13C2 PFTeDA	*67*		*25 - 150*	*10/26/20 18:56*	*10/27/20 20:17*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-425572/1-A
Matrix: Water
Analysis Batch: 425872

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 425572

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 PFBS	71		25 - 150	10/26/20 18:56	10/27/20 20:17	1
18O2 PFHxS	71		25 - 150	10/26/20 18:56	10/27/20 20:17	1
13C4 PFOS	73		25 - 150	10/26/20 18:56	10/27/20 20:17	1
13C8 FOSA	67		25 - 150	10/26/20 18:56	10/27/20 20:17	1
d3-NMeFOSAA	66		25 - 150	10/26/20 18:56	10/27/20 20:17	1
d5-NEtFOSAA	77		25 - 150	10/26/20 18:56	10/27/20 20:17	1
M2-6:2 FTS	71		25 - 150	10/26/20 18:56	10/27/20 20:17	1
M2-8:2 FTS	75		25 - 150	10/26/20 18:56	10/27/20 20:17	1

Lab Sample ID: LCS 320-425572/2-A
Matrix: Water
Analysis Batch: 425872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 425572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	43.9		ng/L		110	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	40.4		ng/L		101	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	42.1		ng/L		105	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	40.0		ng/L		100	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	41.3		ng/L		103	70 - 130
Perfluorononanoic acid (PFNA)	40.0	39.6		ng/L		99	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	42.7		ng/L		107	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	41.3		ng/L		103	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	43.7		ng/L		109	71 - 131
Perfluorotridecanoic acid (PFTriA)	40.0	45.1		ng/L		113	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	42.3		ng/L		106	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	36.6		ng/L		103	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	35.5		ng/L		97	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	43.1		ng/L		113	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	38.9		ng/L		105	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	39.4		ng/L		102	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	44.7		ng/L		112	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	42.6		ng/L		106	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.6		ng/L		104	76 - 136
6:2 FTS	37.9	37.6		ng/L		99	59 - 175
8:2 FTS	38.3	41.9		ng/L		109	75 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	77		25 - 150
13C5 PFPeA	81		25 - 150
13C2 PFHxA	84		25 - 150

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-425572/2-A
Matrix: Water
Analysis Batch: 425872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 425572

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFHpA	87		25 - 150
13C4 PFOA	86		25 - 150
13C5 PFNA	95		25 - 150
13C2 PFDA	92		25 - 150
13C2 PFUnA	97		25 - 150
13C2 PFDoA	81		25 - 150
13C2 PFTeDA	82		25 - 150
13C3 PFBS	83		25 - 150
18O2 PFHxS	86		25 - 150
13C4 PFOS	84		25 - 150
13C8 FOSA	78		25 - 150
d3-NMeFOSAA	81		25 - 150
d5-NEtFOSAA	92		25 - 150
M2-6:2 FTS	79		25 - 150
M2-8:2 FTS	83		25 - 150

Lab Sample ID: 480-177077-3 MS
Matrix: Water
Analysis Batch: 425872

Client Sample ID: MW-02D
Prep Type: Total/NA
Prep Batch: 425572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	23		32.6	59.1		ng/L		112	76 - 136
Perfluoropentanoic acid (PFPeA)	59		32.6	90.1		ng/L		97	71 - 131
Perfluorohexanoic acid (PFHxA)	48		32.6	80.0		ng/L		98	73 - 133
Perfluoroheptanoic acid (PFHpA)	39		32.6	69.8		ng/L		95	72 - 132
Perfluorooctanoic acid (PFOA)	69		32.6	101		ng/L		101	70 - 130
Perfluorononanoic acid (PFNA)	14		32.6	51.9		ng/L		117	75 - 135
Perfluorodecanoic acid (PFDA)	26		32.6	64.6		ng/L		120	76 - 136
Perfluoroundecanoic acid (PFUnA)	5.6		32.6	39.6		ng/L		104	68 - 128
Perfluorododecanoic acid (PFDoA)	14		32.6	51.3		ng/L		113	71 - 131
Perfluorotridecanoic acid (PFTriA)	ND		32.6	30.8		ng/L		95	71 - 131
Perfluorotetradecanoic acid (PFTeA)	2.5		32.6	35.6		ng/L		101	70 - 130
Perfluorobutanesulfonic acid (PFBS)	5.4		28.8	37.4		ng/L		111	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	3.6		29.6	35.1		ng/L		106	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	0.40	J	31.0	35.3		ng/L		112	76 - 136
Perfluorooctanesulfonic acid (PFOS)	22		30.2	53.5		ng/L		105	70 - 130
Perfluorodecanesulfonic acid (PFDS)	ND		31.4	30.1		ng/L		96	71 - 131
Perfluorooctanesulfonamide (FOSA)	ND		32.6	35.6		ng/L		109	73 - 133
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		32.6	36.1		ng/L		111	76 - 136
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		32.6	35.6		ng/L		109	76 - 136

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-177077-3 MS
Matrix: Water
Analysis Batch: 425872

Client Sample ID: MW-02D
Prep Type: Total/NA
Prep Batch: 425572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
6:2 FTS	ND		30.9	31.0		ng/L		100	59 - 175
8:2 FTS	ND		31.2	33.4		ng/L		107	75 - 135

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C4 PFBA	*75*		*25 - 150*
13C5 PFPeA	*89*		*25 - 150*
13C2 PFHxA	*94*		*25 - 150*
13C4 PFHpA	*92*		*25 - 150*
13C4 PFOA	*93*		*25 - 150*
13C5 PFNA	*92*		*25 - 150*
13C2 PFDA	*88*		*25 - 150*
13C2 PFUnA	*94*		*25 - 150*
13C2 PFDoA	*76*		*25 - 150*
13C2 PFTeDA	*85*		*25 - 150*
13C3 PFBS	*91*		*25 - 150*
18O2 PFHxS	*90*		*25 - 150*
13C4 PFOS	*90*		*25 - 150*
13C8 FOSA	*91*		*25 - 150*
d3-NMeFOSAA	*84*		*25 - 150*
d5-NEtFOSAA	*88*		*25 - 150*
M2-6:2 FTS	*104*		*25 - 150*
M2-8:2 FTS	*113*		*25 - 150*

Lab Sample ID: 480-177077-3 MSD
Matrix: Water
Analysis Batch: 425872

Client Sample ID: MW-02D
Prep Type: Total/NA
Prep Batch: 425572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	23		34.5	61.2		ng/L		112	76 - 136	4	30
Perfluoropentanoic acid (PFPeA)	59		34.5	93.9		ng/L		103	71 - 131	4	30
Perfluorohexanoic acid (PFHxA)	48		34.5	84.6		ng/L		106	73 - 133	6	30
Perfluoroheptanoic acid (PFHpA)	39		34.5	79.7		ng/L		118	72 - 132	13	30
Perfluorooctanoic acid (PFOA)	69		34.5	102		ng/L		97	70 - 130	1	30
Perfluorononanoic acid (PFNA)	14		34.5	48.2		ng/L		100	75 - 135	7	30
Perfluorodecanoic acid (PFDA)	26		34.5	60.2		ng/L		100	76 - 136	7	30
Perfluoroundecanoic acid (PFUnA)	5.6		34.5	43.4		ng/L		110	68 - 128	9	30
Perfluorododecanoic acid (PFDoA)	14		34.5	47.3		ng/L		95	71 - 131	8	30
Perfluorotridecanoic acid (PFTriA)	ND		34.5	30.7		ng/L		89	71 - 131	0	30
Perfluorotetradecanoic acid (PFTeA)	2.5		34.5	37.0		ng/L		100	70 - 130	4	30
Perfluorobutanesulfonic acid (PFBS)	5.4		30.5	38.2		ng/L		107	67 - 127	2	30
Perfluorohexanesulfonic acid (PFHxS)	3.6		31.4	35.4		ng/L		102	59 - 119	1	30
Perfluoroheptanesulfonic Acid (PFHpS)	0.40	J	32.8	38.4		ng/L		116	76 - 136	8	30
Perfluorooctanesulfonic acid (PFOS)	22		32.0	53.9		ng/L		100	70 - 130	1	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-177077-3 MSD
Matrix: Water
Analysis Batch: 425872

Client Sample ID: MW-02D
Prep Type: Total/NA
Prep Batch: 425572

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorodecanesulfonic acid (PFDS)	ND		33.2	32.6		ng/L		98	71 - 131	8	30
Perfluorooctanesulfonamide (FOSA)	ND		34.5	37.1		ng/L		108	73 - 133	4	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		34.5	37.9		ng/L		110	76 - 136	5	30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		34.5	37.5		ng/L		109	76 - 136	5	30
6:2 FTS	ND		32.7	33.1		ng/L		101	59 - 175	6	30
8:2 FTS	ND		33.0	36.5		ng/L		111	75 - 135	9	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C4 PFBA	*63*		*25 - 150*
13C5 PFPeA	*73*		*25 - 150*
13C2 PFHxA	*79*		*25 - 150*
13C4 PFHpA	*72*		*25 - 150*
13C4 PFOA	*74*		*25 - 150*
13C5 PFNA	*81*		*25 - 150*
13C2 PFDA	*76*		*25 - 150*
13C2 PFUnA	*73*		*25 - 150*
13C2 PFDoA	*71*		*25 - 150*
13C2 PFTeDA	*73*		*25 - 150*
13C3 PFBS	*74*		*25 - 150*
18O2 PFHxS	*77*		*25 - 150*
13C4 PFOS	*74*		*25 - 150*
13C8 FOSA	*75*		*25 - 150*
d3-NMeFOSAA	*71*		*25 - 150*
d5-NEtFOSAA	*74*		*25 - 150*
M2-6:2 FTS	*86*		*25 - 150*
M2-8:2 FTS	*92*		*25 - 150*

QC Association Summary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

GC/MS VOA

Analysis Batch: 555654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177077-1	MW-02I	Total/NA	Water	8260C	
480-177077-2	MW-02S	Total/NA	Water	8260C	
480-177077-3	MW-02D	Total/NA	Water	8260C	
MB 480-555654/7	Method Blank	Total/NA	Water	8260C	
LCS 480-555654/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 555715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177077-4	DUP	Total/NA	Water	8260C	
480-177077-5	MW-09S	Total/NA	Water	8260C	
480-177077-6	MW-10S	Total/NA	Water	8260C	
480-177077-7	MW-06	Total/NA	Water	8260C	
480-177077-8	MW-11S	Total/NA	Water	8260C	
480-177077-9	MW-04S	Total/NA	Water	8260C	
480-177077-10	MW-03I	Total/NA	Water	8260C	
480-177077-11	MW-08S	Total/NA	Water	8260C	
480-177077-12	TRIP BLANK	Total/NA	Water	8260C	
MB 480-555715/7	Method Blank	Total/NA	Water	8260C	
LCS 480-555715/29	Lab Control Sample	Total/NA	Water	8260C	
480-177077-3 MS	MW-02D	Total/NA	Water	8260C	
480-177077-3 MSD	MW-02D	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 555817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177077-1	MW-02I	Total/NA	Water	3510C	
480-177077-2	MW-02S	Total/NA	Water	3510C	
480-177077-3	MW-02D	Total/NA	Water	3510C	
480-177077-4	DUP	Total/NA	Water	3510C	
480-177077-7	MW-06	Total/NA	Water	3510C	
480-177077-10	MW-03I	Total/NA	Water	3510C	
MB 480-555817/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-555817/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-177077-3 MS	MW-02D	Total/NA	Water	3510C	
480-177077-3 MSD	MW-02D	Total/NA	Water	3510C	

Analysis Batch: 556213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177077-1	MW-02I	Total/NA	Water	8270D SIM ID	555817
480-177077-2	MW-02S	Total/NA	Water	8270D SIM ID	555817
480-177077-3	MW-02D	Total/NA	Water	8270D SIM ID	555817
480-177077-4	DUP	Total/NA	Water	8270D SIM ID	555817
480-177077-7	MW-06	Total/NA	Water	8270D SIM ID	555817
480-177077-10	MW-03I	Total/NA	Water	8270D SIM ID	555817
MB 480-555817/1-A	Method Blank	Total/NA	Water	8270D SIM ID	555817
LCS 480-555817/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	555817
480-177077-3 MS	MW-02D	Total/NA	Water	8270D SIM ID	555817
480-177077-3 MSD	MW-02D	Total/NA	Water	8270D SIM ID	555817

QC Association Summary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

LCMS

Prep Batch: 425572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177077-1	MW-02I	Total/NA	Water	3535	
480-177077-2	MW-02S	Total/NA	Water	3535	
480-177077-3	MW-02D	Total/NA	Water	3535	
480-177077-4	DUP	Total/NA	Water	3535	
480-177077-7	MW-06	Total/NA	Water	3535	
480-177077-10	MW-03I	Total/NA	Water	3535	
MB 320-425572/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-425572/2-A	Lab Control Sample	Total/NA	Water	3535	
480-177077-3 MS	MW-02D	Total/NA	Water	3535	
480-177077-3 MSD	MW-02D	Total/NA	Water	3535	

Analysis Batch: 425872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-177077-1	MW-02I	Total/NA	Water	537 (modified)	425572
480-177077-2	MW-02S	Total/NA	Water	537 (modified)	425572
480-177077-3	MW-02D	Total/NA	Water	537 (modified)	425572
480-177077-4	DUP	Total/NA	Water	537 (modified)	425572
480-177077-7	MW-06	Total/NA	Water	537 (modified)	425572
480-177077-10	MW-03I	Total/NA	Water	537 (modified)	425572
MB 320-425572/1-A	Method Blank	Total/NA	Water	537 (modified)	425572
LCS 320-425572/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	425572
480-177077-3 MS	MW-02D	Total/NA	Water	537 (modified)	425572
480-177077-3 MSD	MW-02D	Total/NA	Water	537 (modified)	425572

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: MW-02I
Lab Sample ID: 480-177077-1
Date Collected: 10/21/20 09:00
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	555654	10/25/20 15:31	RJF	TAL BUF
Total/NA	Prep	3510C			555817	10/26/20 15:19	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	556213	10/28/20 17:58	JMM	TAL BUF
Total/NA	Prep	3535			425572	10/26/20 18:56	AP	TAL SAC
Total/NA	Analysis	537 (modified)		1	425872	10/27/20 21:30	D1R	TAL SAC

Client Sample ID: MW-02S
Lab Sample ID: 480-177077-2
Date Collected: 10/21/20 10:25
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	555654	10/25/20 15:55	RJF	TAL BUF
Total/NA	Prep	3510C			555817	10/26/20 15:19	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	556213	10/28/20 18:21	JMM	TAL BUF
Total/NA	Prep	3535			425572	10/26/20 18:56	AP	TAL SAC
Total/NA	Analysis	537 (modified)		1	425872	10/27/20 21:39	D1R	TAL SAC

Client Sample ID: MW-02D
Lab Sample ID: 480-177077-3
Date Collected: 10/23/20 11:05
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	555654	10/25/20 16:19	RJF	TAL BUF
Total/NA	Prep	3510C			555817	10/26/20 15:19	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	556213	10/28/20 17:11	JMM	TAL BUF
Total/NA	Prep	3535			425572	10/26/20 18:56	AP	TAL SAC
Total/NA	Analysis	537 (modified)		1	425872	10/27/20 22:06	D1R	TAL SAC

Client Sample ID: DUP
Lab Sample ID: 480-177077-4
Date Collected: 10/22/20 10:30
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	555715	10/26/20 12:21	RJF	TAL BUF
Total/NA	Prep	3510C			555817	10/26/20 15:19	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	556213	10/28/20 18:45	JMM	TAL BUF
Total/NA	Prep	3535			425572	10/26/20 18:56	AP	TAL SAC
Total/NA	Analysis	537 (modified)		1	425872	10/27/20 22:34	D1R	TAL SAC

Client Sample ID: MW-09S
Lab Sample ID: 480-177077-5
Date Collected: 10/21/20 11:15
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	555715	10/26/20 12:45	RJF	TAL BUF

Client Sample ID: MW-10S
Lab Sample ID: 480-177077-6
Date Collected: 10/21/20 11:45
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	555715	10/26/20 13:10	RJF	TAL BUF

Client Sample ID: MW-06
Lab Sample ID: 480-177077-7
Date Collected: 10/21/20 11:55
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	555715	10/26/20 13:35	RJF	TAL BUF
Total/NA	Prep	3510C			555817	10/26/20 15:19	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	556213	10/28/20 19:08	JMM	TAL BUF
Total/NA	Prep	3535			425572	10/26/20 18:56	AP	TAL SAC
Total/NA	Analysis	537 (modified)		1	425872	10/27/20 22:43	D1R	TAL SAC

Client Sample ID: MW-11S
Lab Sample ID: 480-177077-8
Date Collected: 10/21/20 13:30
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	555715	10/26/20 14:00	RJF	TAL BUF

Client Sample ID: MW-04S
Lab Sample ID: 480-177077-9
Date Collected: 10/21/20 14:10
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	555715	10/26/20 14:24	RJF	TAL BUF

Client Sample ID: MW-03I
Lab Sample ID: 480-177077-10
Date Collected: 10/21/20 14:30
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	555715	10/26/20 14:49	RJF	TAL BUF
Total/NA	Prep	3510C			555817	10/26/20 15:19	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	556213	10/28/20 19:31	JMM	TAL BUF
Total/NA	Prep	3535			425572	10/26/20 18:56	AP	TAL SAC
Total/NA	Analysis	537 (modified)		1	425872	10/27/20 22:52	D1R	TAL SAC

Client Sample ID: MW-08S
Lab Sample ID: 480-177077-11
Date Collected: 10/22/20 11:00
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	555715	10/26/20 15:14	RJF	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-177077-12

Date Collected: 10/22/20 00:00
Matrix: Water
Date Received: 10/24/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	555715	10/26/20 15:38	RJF	TAL BUF

Laboratory References:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	10-28-20

Laboratory: Eurofins TestAmerica, Sacramento

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11666	04-01-21

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

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-177077-1	MW-02I	Water	10/21/20 09:00	10/24/20 08:00	
480-177077-2	MW-02S	Water	10/21/20 10:25	10/24/20 08:00	
480-177077-3	MW-02D	Water	10/23/20 11:05	10/24/20 08:00	
480-177077-4	DUP	Water	10/22/20 10:30	10/24/20 08:00	
480-177077-5	MW-09S	Water	10/21/20 11:15	10/24/20 08:00	
480-177077-6	MW-10S	Water	10/21/20 11:45	10/24/20 08:00	
480-177077-7	MW-06	Water	10/21/20 11:55	10/24/20 08:00	
480-177077-8	MW-11S	Water	10/21/20 13:30	10/24/20 08:00	
480-177077-9	MW-04S	Water	10/21/20 14:10	10/24/20 08:00	
480-177077-10	MW-03I	Water	10/21/20 14:30	10/24/20 08:00	
480-177077-11	MW-08S	Water	10/22/20 11:00	10/24/20 08:00	
480-177077-12	TRIP BLANK	Water	10/22/20 00:00	10/24/20 08:00	

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

Albany
#224

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Lexie Lill + Sam Pericic	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-150704-33468.1
Client Contact: Nate Kranes	Phone: 518-641-8418	E-Mail: Judy.Stone@Eurofinset.com		Page: Page 1 of 2
Company: TRC Environmental Corporation				Job #:
Address: 215 Greenfield Parkway	Due Date Requested:			
City: Liverpool	TAT Requested (days): Standard			
State, Zip: NY, 13088				
Phone:	PO #: CallOut SMP1215			
Email: NKranes@trccompanies.com	WO #: SMP1215			
Project Name: SMP B - Mahopac Business Dist.	Project #: 48022480			
Site: Mahopac Business District Wells	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor
M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; ... drate

480-177077 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOAs + TICs	PFC_IDA - PFAS, Standard List (21 Analytes)	8270D-SIM-MS-ID-1,4-Dioxane	Total N	Special Instructions/Note:
				Preservation Code:			A	N	N		
MW-02I	10/21/20	900	G	Water			X	X	X		
MW-02S	10/21/20	1025	G	Water			X	X	X		
MW-02D	10/23/20	1105	G	Water		X	X	X	X		
DUP	10/22/20	1030	G	Water			X	X	X		
MW-09S	10/21/20	1115	G	Water			X				
MW-10S	10/21/20	1145	G	Water			X				
MW-06	10/21/20	1155	G	Water			X	X	X		
MW-11S	10/21/20	1330	G	Water			X				
MW-04S	10/21/20	1410	G	Water			X				
MW-03I	10/21/20	1430	G	Water			X	X	X		
MW-08S	10/22/20	1100	G	Water			X				

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Lexie Lill / Lexie Lill	Date/Time: 10/23/20 1445	Company: TRC	Received by: [signature]	Date/Time: 10/23/20 1445	Company: Eurofins
Relinquished by: [signature]	Date/Time: 10/23/20 1700	Company: Eurofins	Received by: [signature]	Date/Time: 10/24/20 0800	Company: TAS
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.1, 2.5, 2.9

Ver: 01/16/2019

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

Albany

#224

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Lexie Lill + Sam Pereira	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-150704-33468.2
Client Contact: Nate Kranes	Phone: 518-641-8478	E-Mail: Judy.Stone@Eurofinset.com		Page: Page 2 of 2
Company: TRC Environmental Corporation		Analysis Requested		Job #:
Address: 215 Greenfield Parkway	Due Date Requested:			Preservation Codes:
City: Liverpool	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 13088				Other:
Phone:	PO #: CallOut SMP1215			
Email: NKranes@trccompanies.com	WO #: SMP1215			
Project Name: SMP B - Mahopac Business Dist.	Project #: 48022480			
Site: Mahopac Business District Wells	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOAs + TICs	PFC_IDA - PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
TRIP BLANK				Water			X			
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Lexie Lill / Sam Pereira	10/23/20 1445	TRC	Karl Zacher	10/23/20 1445	Eurofins
2	Relinquished by: Karl Zacher	Date/Time: 10/23/20 1700	Company Eurofins	Received by:	Date/Time: 10/24/20 0800	Company TAL
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 01/16/2019

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

Albany #224

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Lexie Lill + Sam Pericak	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-150704-33468.1
Client Contact: Nate Kranes	Phone: 518-641-8478	E-Mail: Judy.Stone@Eurofinset.com		Page: Page 1 of 2
Company: TRC Environmental Corporation		Analysis Requested		Job #:
Address: 215 Greenfield Parkway	Due Date Requested:			Preservation Codes:
City: Liverpool	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 13088				
Phone:	PO #: CallOut SMP1215			Other:
Email: NKranes@trccompanies.com	WO #: SMP1215			
Project Name: SMP B - Mahopac Business Dist.	Project #: 48022480			
Site: Mahopac Business District Wells	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOAs + TICs	PFC_IDA - PFAS, Standard List (21 Analytes)	8270D_SIM_ms_1,4-Dioxane	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N	N		
MW-02I	10/21/20	900	G	Water			X	X	X		
MW-02S	10/21/20	1025	G	Water			X	X	X		
MW-02D	10/23/20	1105	G	Water		X	X	X	X		
DUP	10/22/20	1030	G	Water			X	X	X		
MW-09S	10/21/20	1115	G	Water			X				
MW-10S	10/21/20	1145	G	Water			X				
MW-06	10/21/20	1155	G	Water			X	X	X		
MW-11S	10/21/20	1330	G	Water			X				
MW-04S	10/21/20	1410	G	Water			X				
MW-03I	10/21/20	1430	G	Water			X	X	X		
MW-08S	10/22/20	1100	G	Water			X				

480-177077 Chain of Custody

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Lexie Lill / Sam Pericak	10/23/20 1445	TRC	Karl Zadra	10/23/20 1445	Eurofins
Relinquished by: Karl Zadra	Date/Time: 10/23/20 1700	Company Eurofins	Received by:	Date/Time: 10/24/20 905	Company ETA Buf
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: Sgl

Cooler Temperature(s) °C and Other Remarks: -0.1 Cx0.3

Ver: 01/16/2019

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

Albany #224

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Lexie Gill + Sara Pereira	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-150704-33468.2
Client Contact: Nate Kranes	Phone: 518-641-8478	E-Mail: Judy.Stone@Eurofinset.com		Page: Page 2 of 2
Company: TRC Environmental Corporation		Analysis Requested		Job #:
Address: 215 Greenfield Parkway	Due Date Requested:			Preservation Codes:
City: Liverpool	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 13088	PO #: CallOut SMP1215			
Phone:	WO #: SMP1215			Other:
Email: NKranes@trccompanies.com	Project #: 48022480			
Project Name: SMP B - Mahopac Business Dist.	SSOW#:			
Site: Mahopac Business District Wells				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL VOAs + TICs	PFC_IDA - PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N		
TRIP BLANK				Water			X			
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						
				Water						

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

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Lexie Gill / Sara Pereira	10/23/20 1445	TRC	Karl Zacher	10/23/20 1445	Eurofins
Relinquished by: Karl Zacher	Date/Time: 10/23/20 1700	Company Eurofins	Received by:	Date/Time: 10/24/20 915	Company EA SES
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: Seal

Cooler Temperature(s) °C and Other Remarks: -0.1 CF 0.3

Ver: 01/16/2019

eurofins | Environment Testing TestAmerica

Sacramento Sample Receiving Notes

480-177077 Field Sheet

Tracking #: 1891 4486 3360

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other_____

Job:_____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: AM13 Corr. Factor: (+/-) 0.4 °C

Ice ✓ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: SCA

Cooler ID: _____

Temp Observed: 0.1 °C Corrected: 0.5 °C

From: Temp Blank ☑ Sample ☐

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐

Initials: ST Date: 10/24/20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: DM Date: 10/24/20

Notes:_____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☑	☐	☐

Initials: DM Date: 10/24/20

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-177077-1

Login Number: 177077 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: Yeager, Brian A

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

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-177077-1

Login Number: 177077
List Number: 2
Creator: Her, David A

List Source: Eurofins TestAmerica, Sacramento
List Creation: 10/24/20 01:56 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seal
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX E

DATA USABILITY SUMMARY REPORTS

Data Usability Summary Report

Site: SMP B – Mahopac Business District Wells
Laboratory: Eurofins TestAmerica – Sacramento, CA
SDG No.: 480-177077-1
Parameters: Per- and Poly-fluoroalkyl Substances (PFAS)
Data Reviewer: Kristen Morin/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: November 5, 2020

Samples Reviewed and Evaluation Summary

6 Groundwater Samples: MW-02D, MW-02I, MW-02S, MW-03I, MW-06, DUP[1]

[1] Field duplicate for MW-02D

The above-listed groundwater samples were collected on October 21-23, 2020 and were analyzed for PFAS (21 target analytes) based on EPA Method 537.1 (modified) using Eurofins TestAmerica – Sacramento, CA standard operating procedure (SOP) WS-LC-0025, revision 3.8, effective date 09/23/19.

The data validation was performed in accordance with the following guidance, modified for the methodology utilized:

- USEPA National Functional Guidelines for High Resolution Superfund Methods Data Review (EPA-542-B-16-001), April 2016
- USEPA Data Review and Validation Guidelines for Perfluoroalkyl Substances Analyzed Using EPA Method 537 (EPA 910-R-18-001), November 2018
- New York State Department of Environmental Conservation Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids, October 2020

The data were evaluated based on the following parameters:

- Overall Evaluation of Data and Potential Usability Issues
* • Data Completeness
* • Holding Times and Sample Preservation
* • Initial and Continuing Calibrations
* • Blanks
* • Isotopically Labeled Surrogate Results
* • Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
* • Laboratory Control Sample (LCS) Results
* • Internal Standards
* • Field Duplicate Results
- Sample Results and Reported Quantitation Limits (QLs)
* • Target Compound Identification

* - All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. There were no qualifications applied to the data

because of sampling error. Qualifications applied to the data because of analytical error are discussed below.

- Potential uncertainty exists for select PFAS results that were below the lowest calibration standard and QL. These results were qualified as estimated (J) in the associated samples. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

Data Completeness

The data package was a complete Level IV data deliverable.

Holding Times and Sample Preservation

All holding time and sample preservation criteria were met.

Initial and Continuing Calibrations

The percent relative standard deviations were within the method acceptance criteria in the initial calibration. The percent differences met the method acceptance criteria in the continuing calibration standards associated with the samples in this data set.

Blanks

PFAS compounds were not detected in the laboratory method blank.

Isotopically Labeled Surrogate Results

Eighteen isotopically labeled surrogates were spiked into the samples prior to extraction for isotope dilution quantitation. The isotopically labeled surrogate percent recoveries (%Rs) were within the acceptance criteria.

MS/MSD Results

MS/MSD analyses were performed on sample MW-02D. All %Rs and relative percent differences (RPDs) were within the laboratory acceptance criteria.

LCS Results

The LCS %Rs were within the laboratory acceptance criteria.

Internal Standards

One isotopically labeled internal standard, 13C2 PFOA, was added to each sample prior to injection to monitor for ion suppression/enhancement at the instrument level. The %Rs were within the laboratory acceptance limits of 50-150%.

Field Duplicate Results

Samples MW-02D and DUP were submitted as the field duplicate pair with this sample set. The following table summarizes the RPDs of the detected results; all criteria were met.

Analyte	QL (ng/L)	MW-02D (ng/L)	DUP (ng/L)	RPD (%)	Validation Action
PFBA	4.2	23	23	0	None; all criteria were met.
PFPeA	1.7	59	58	1.7	
PFHxA	1.7	48	49	2.1	
PFHpA	1.7	39	37	5.3	
PFOA	1.7	69	65	6.0	
PFNA	1.7	14	15	6.9	
PFDA	1.7	26	27	3.8	
PFUnA	1.7	5.6	5.2	7.4	
PFDoA	1.7	14	14	0	
PFTeA	1.7	2.5	1.7	38.1	
PFBS	1.7	5.4	5.1	5.7	
PFHxS	1.7	3.6	3.5	2.8	
PFHpS	1.7	0.4 J	0.37 J	7.8	
PFOS	1.7	22	21	4.7	

Criteria:

- When both results are $\geq$ 2x the QL, RPDs must be ≤ 30%.
- When one or both results are < 2x the QL, absolute difference must be < the QL.

Sample Results and Reported Quantitation Limits

Sample calculations were spot-checked; there were no errors noted.

Select PFAS results were reported below the lowest calibration standard level and QL. These results were qualified as estimated (J) in the associated samples by the laboratory.

There were no dilutions performed on the samples in this data set.

The laboratory narrative noted that all samples in this data set contained a thin layer of sediment at the bottom of the bottle prior to extraction.

Target Compound Identification

Extracted ion chromatograms were reviewed to verify the target compound identifications. The laboratory manually integrated several peaks to ensure the inclusion of linear and branched isomers for PFOA, PFOS, NEtFOSAA, NMeFOSAA, and/or PFHxS; and/or to ensure proper integration of all PFAS.

Two precursor/product ion transitions were used for identification for all compounds except for PFBA, PFPeA, PFOSA, NMeFOSAA, NEtFOSAA, 6:2 FTS, and 8:2 FTS which only used one precursor/product ion transition for identification. The ratios between the two precursor/product ion transitions for detected results were within the laboratory acceptance criteria.

QUALIFIED FORM 1s

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02I Lab Sample ID: 480-177077-1

Matrix: Water Lab File ID: 2020.10.27_A18_PFC_AA_052.d

Analysis Method: 537 (modified) Date Collected: 10/21/2020 09:00

Extraction Method: 3535 Date Extracted: 10/26/2020 18:56

Sample wt/vol: 298.7(mL) Date Analyzed: 10/27/2020 21:30

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 425872 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	43		4.2	2.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	180		1.7	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	85		1.7	0.49
375-85-9	Perfluoroheptanoic acid (PFHpA)	45		1.7	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	78		1.7	0.71
375-95-1	Perfluorononanoic acid (PFNA)	6.4		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	5.5		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.92
307-55-1	Perfluorododecanoic acid (PFDoA)	0.72	J	1.7	0.46
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.61
375-73-5	Perfluorobutanesulfonic acid (PFBS)	8.8		1.7	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.9		1.7	0.48
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.59	J	1.7	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	28		1.7	0.45
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.82
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	1.0
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	1.1
27619-97-2	6:2 FTS	ND		4.2	2.1
39108-34-4	8:2 FTS	ND		1.7	0.39

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02S Lab Sample ID: 480-177077-2

Matrix: Water Lab File ID: 2020.10.27_A18_PFC_AA_053.d

Analysis Method: 537 (modified) Date Collected: 10/21/2020 10:25

Extraction Method: 3535 Date Extracted: 10/26/2020 18:56

Sample wt/vol: 304.2(mL) Date Analyzed: 10/27/2020 21:39

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 425872 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	12		4.1	2.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	9.0		1.6	0.40
307-24-4	Perfluorohexanoic acid (PFHxA)	7.2		1.6	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.7		1.6	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	28		1.6	0.70
375-95-1	Perfluorononanoic acid (PFNA)	8.5		1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	2.3		1.6	0.25
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.90
307-55-1	Perfluorododecanoic acid (PFDoA)	0.50	J	1.6	0.45
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.60
375-73-5	Perfluorobutanesulfonic acid (PFBS)	9.5		1.6	0.16
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.3		1.6	0.47
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.44	J	1.6	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	46		1.6	0.44
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.26
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.6	0.81
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.99
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	1.1
27619-97-2	6:2 FTS	ND		4.1	2.1
39108-34-4	8:2 FTS	ND		1.6	0.38

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02D Lab Sample ID: 480-177077-3

Matrix: Water Lab File ID: 2020.10.27_A18_PFC_AA_056.d

Analysis Method: 537 (modified) Date Collected: 10/23/2020 11:05

Extraction Method: 3535 Date Extracted: 10/26/2020 18:56

Sample wt/vol: 299.9(mL) Date Analyzed: 10/27/2020 22:06

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 425872 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	23		4.2	2.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	59		1.7	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	48		1.7	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	39		1.7	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	69		1.7	0.71
375-95-1	Perfluorononanoic acid (PFNA)	14		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	26		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	5.6		1.7	0.92
307-55-1	Perfluorododecanoic acid (PFDoA)	14		1.7	0.46
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.5		1.7	0.61
375-73-5	Perfluorobutanesulfonic acid (PFBS)	5.4		1.7	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.6		1.7	0.48
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.40	J	1.7	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	22		1.7	0.45
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.82
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	1.0
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	1.1
27619-97-2	6:2 FTS	ND		4.2	2.1
39108-34-4	8:2 FTS	ND		1.7	0.38

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-177077-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-177077-4

Matrix: Water Lab File ID: 2020.10.27_A18_PFC_AA_059.d

Analysis Method: 537 (modified) Date Collected: 10/22/2020 10:30

Extraction Method: 3535 Date Extracted: 10/26/2020 18:56

Sample wt/vol: 295.7(mL) Date Analyzed: 10/27/2020 22:34

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 425872 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	23		4.2	2.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	58		1.7	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	49		1.7	0.49
375-85-9	Perfluoroheptanoic acid (PFHpA)	37		1.7	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	65		1.7	0.72
375-95-1	Perfluorononanoic acid (PFNA)	15		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	27		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	5.2		1.7	0.93
307-55-1	Perfluorododecanoic acid (PFDoA)	14		1.7	0.46
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.7		1.7	0.62
375-73-5	Perfluorobutanesulfonic acid (PFBS)	5.1		1.7	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.5		1.7	0.48
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.37	J	1.7	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	21		1.7	0.46
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.83
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	1.0
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	1.1
27619-97-2	6:2 FTS	ND		4.2	2.1
39108-34-4	8:2 FTS	ND		1.7	0.39

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-06 Lab Sample ID: 480-177077-7

Matrix: Water Lab File ID: 2020.10.27_A18_PFC_AA_060.d

Analysis Method: 537 (modified) Date Collected: 10/21/2020 11:55

Extraction Method: 3535 Date Extracted: 10/26/2020 18:56

Sample wt/vol: 283(mL) Date Analyzed: 10/27/2020 22:43

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 425872 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	15		4.4	2.1
2706-90-3	Perfluoropentanoic acid (PFPeA)	43		1.8	0.43
307-24-4	Perfluorohexanoic acid (PFHxA)	32		1.8	0.51
375-85-9	Perfluoroheptanoic acid (PFHpA)	15		1.8	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	38		1.8	0.75
375-95-1	Perfluorononanoic acid (PFNA)	4.4		1.8	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	9.4		1.8	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.97
307-55-1	Perfluorododecanoic acid (PFDoA)	3.5		1.8	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.64
375-73-5	Perfluorobutanesulfonic acid (PFBS)	6.7		1.8	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.2		1.8	0.50
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.48	J	1.8	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36		1.8	0.48
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.87
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	1.1
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	1.1
27619-97-2	6:2 FTS	ND		4.4	2.2
39108-34-4	8:2 FTS	ND		1.8	0.41

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-03I Lab Sample ID: 480-177077-10

Matrix: Water Lab File ID: 2020.10.27_A18_PFC_AA_061.d

Analysis Method: 537 (modified) Date Collected: 10/21/2020 14:30

Extraction Method: 3535 Date Extracted: 10/26/2020 18:56

Sample wt/vol: 302(mL) Date Analyzed: 10/27/2020 22:52

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: Gemini C18 3x50 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 425872 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	6.3		4.1	2.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.0		1.7	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	3.0		1.7	0.48
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.5		1.7	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	26		1.7	0.70
375-95-1	Perfluorononanoic acid (PFNA)	8.5		1.7	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	6.3		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.95	J	1.7	0.91
307-55-1	Perfluorododecanoic acid (PFDoA)	0.88	J	1.7	0.46
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.60
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.0		1.7	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.8		1.7	0.47
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	11		1.7	0.45
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.81
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.99
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	1.1
27619-97-2	6:2 FTS	ND		4.1	2.1
39108-34-4	8:2 FTS	ND		1.7	0.38

QC NONCONFORMANCE DOCUMENTATION

Not applicable to this SDG.

Data Usability Summary Report

Site: SMP B - Mahopac Business District Wells
Laboratory: Eurofins TestAmerica Buffalo – Amherst, NY
SDG No.: 480-177077-1
Parameters: Volatile Organic Compounds (VOCs); 1,4-Dioxane
Data Reviewer: Amy Bass/TRC
Peer Reviewer: Elizabeth Denly/TRC
Date: November 11, 2020

Samples Reviewed and Evaluation Summary

11 / Groundwater: MW-02I, MW-02S, MW-02D, DUP*, MW-03I, MW-04S, MW-06, MW-08S, MW-09S, MW-10S, MW-11S

1 / Trip Blank: TRIP BLANK

* Field Duplicate for MW-02D

The above-listed samples were collected on October 21-23, 2020 and were analyzed for the following parameters:

- VOCs by SW-846 Method 8260C
- 1,4-Dioxane by SW-846 Method 8270D using selective ion monitoring (SIM) / isotope dilution

The data validation was performed in accordance with *USEPA National Functional Guidelines for Organic Superfund Methods Data Review (EPA-540-R-017-002),* January 2017, modified for the SW-846 methodologies utilized.

The data were evaluated based on the following parameters:

	•	Overall Evaluation of Data and Potential Usability Issues
	•	Data Completeness
*	•	Holding Times and Sample Preservation
*	•	Gas Chromatography/Mass Spectrometry (GC/MS) Tunes
	•	Initial and Continuing Calibrations
*	•	Blanks
	•	Surrogate Recoveries
	•	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results
*	•	Internal Standards
*	•	Laboratory Control Sample (LCS) Results
*	•	Field Duplicate Results
	•	Sample Results and Reported Quantitation Limits (QLs)
*	•	Target Compound Identification
*	•	Tentatively Identified Compounds (TICs)

* - All criteria were met.

Overall Evaluation of Data and Potential Usability Issues

All results are usable for project objectives. Qualifications applied to the data as a result of sampling error were not required. Qualifications applied to the data as a result of analytical error are discussed below.

- Potential uncertainty exists for select VOC results that were below the lowest calibration standard and QL. These results were qualified as estimated (J) by the laboratory. These results can be used for project objectives as estimated values, which may have a minor impact on the data usability.

- The nondetect results for select VOCs in several samples were qualified as estimated (UJ) due to continuing calibration nonconformances. These results can be used for project objectives as nondetects with estimated QLs, which may have a minor impact on the data usability.

- The positive result for methylene chloride in sample MW-09S was qualified as estimated (J) due to high surrogate recovery. This result can be used for project objectives as an estimated value, which may have a minor impact on the data usability

Data Completeness

The data package was a complete Level IV data deliverable package with some exceptions.

- The laboratory did not report LCS or MS/MSD percent recoveries (%Rs) for total xylenes on the summary forms. The %Rs were calculated during validation and were within the laboratory acceptance criteria; no validation actions were required on this basis.

- The laboratory did not report the results for the initial calibration verification (ICV) analysis associated with the VOC calibration on 10/21/2020. The run log noted that the ICV analysis was performed, but the ICV results were not provided. Other ICV results were summarized in the report. Since the ICV analyses are not used to qualify sample data, no validation action was required on this basis.

Holding Times and Sample Preservation

All holding time and sample preservation method criteria were met for the VOC and 1,4-dioxane analyses.

GC/MS Tunes

All method acceptance criteria were met in the VOC and 1,4-dioxane analyses.

Initial and Continuing Calibrations

VOCs

The percent relative standard deviations (%RSDs), coefficients of determination, and relative response factors (RRFs) were within the method acceptance criteria in the initial calibrations.

The following table summarizes the percent differences or percent drifts (%Ds) that did not meet the acceptance criteria in the continuing calibration (CC) standards associated with the samples in this data set, the associated samples, and the validation actions. All RRFs were within acceptance criteria in the CC standards.

CC	Compound	%D	Validation Actions
10/26/20 @09:28 HP5973C	Methyl acetate	-25.4	The nondetect results for these VOCs in the associated samples were qualified as estimated (UJ).
	2-Butanone	-34.7	
	2-Hexanone	-35.1	
Associated samples: DUP, MW-09S, MW-10S, MW-06, MW-11S, MW-04S, MW-03I, MW-08S, TRIP BLANK			

1,4-Dioxane

All %RSDs and RRFs were within the method acceptance criteria in the 1,4-dioxane IC associated with the samples in this data set. All RRFs and %Ds were within the acceptance criteria in the CC standards for the associated 1,4-dioxane analyses.

Blanks

Target analytes were not detected in the laboratory method blanks for the VOC or 1,4-dioxane analyses. Target VOCs were not detected in the trip blank.

Surrogate Recoveries

The surrogate %Rs met the laboratory acceptance criteria in the VOC and 1,4-dioxane analyses, with one exception in the VOC analyses. The following table summarizes the surrogate %R that did not meet the acceptance criteria, the associated sample, and the resulting validation action.

Sample ID	Surrogate (VOCs)	%R	%R QC Limits	Validation Actions
MW-09S	Dibromofluoromethane	125	75-123	The positive result for methylene chloride in sample MW-09S would have been qualified as estimated (J+) with a potential high bias. However, this result was qualified as estimated (J) by the laboratory due to detection below the QL; therefore, the overall qualification is estimated (J), with no bias. Qualification was not required for the remaining VOCs since only detected results are affected.

MS/MSD Results

MS/MSD analyses for VOCs and 1,4-dioxane were performed on sample MW-02D. The MS and MSD %Rs for 1,4-dioxane, and the relative percent differences (RPDs) for the VOCs and 1,4-dioxane met the laboratory acceptance criteria. The following table summarizes the VOC MS and MSD %Rs that did not meet the laboratory acceptance criteria and the resulting validation actions. Qualification of the data is not required in the case of nonconformances when the sample concentration is >4x the spike concentration; thus, these results were not evaluated or summarized in this report.

MS/MSD Parent Sample ID	Compound	MS %R	MSD %R	MS/MSD QC Limits	Validation Action
MW-02D	1,1,1-Trichloroethane	140	127	73-126	Qualification was not required since these VOCs were nondetect in sample MW-02D.
	1,1-Dichloroethane	127	-	77-120	
	1,1-Dichloroethene	141	128	66-127	
	1,2,4-Trichlorobenzene	126	-	79-122	
	Carbon tetrachloride	143	-	72-134	
	Chloroethane	140	-	69-136	
	Chloromethane	140	130	68-124	
	cis-1,2-Dichloroethene	128	-	74-124	
	Isopropylbenzene	147	138	77-122	
	Methyl tert-butyl ether	122	-	77-120	
	Methylene Chloride	142	130	75-124	
	trans-1,2-Dichloroethene	133	-	73-127	
	Vinyl chloride	142	-	65-133	

Note that the laboratory did not report the MS/MSD %Rs for total xylenes. The %Rs were calculated during validation and were within the laboratory acceptance criteria.

Internal Standards

All internal standards met the method acceptance criteria in the VOC and 1,4-dioxane analyses.

LCS Results

All laboratory acceptance criteria were met in the LCS analyses for VOCs and 1,4-dioxane.

Field Duplicate Results

Samples MW-02D and DUP were submitted as the field duplicate pair with this sample set. The duplicate RPD is applicable only when both results are ≥5× the QL. Acetone was the only detected analyte, and concentrations in both samples were below the QL; therefore, the duplicate comparisons were based on the absolute difference (AbsD) between the results rather than the RPD. The following table summarizes the acetone concentrations detected in the field duplicate pair and the calculated AbsD value. Criteria were met (AbsD ≤QL); therefore, no validation action was required.

Analyte	QL (µg/L)	MW-02D (µg/L)	DUP (µg/L)	AbsD (µg/L)	Criteria	Validation Action
Acetone	10	4.1 J	3.1 J	1.0	AbsD ≤ QL	Qualification was not required since criteria were met.

Sample Results and Reported QLs

Select VOC results were reported below the lowest calibration standard level and QL. These results were qualified as estimated (J) by the laboratory.

Sample calculations were spot-checked; there were no errors noted.

No dilutions were performed for the 1,4-dioxane analyses. The following table summarizes the dilutions performed for the VOC analyses; QLs were elevated accordingly by the laboratory.

Parameter	Sample ID	Dilution	Reason for Dilution
VOCs	MW-09S	10-fold	The indicated dilutions were performed due to sample foaming during the initial analysis.
	MW-10S	4-fold	
	MW-04S	4-fold	
	MW-08S	4-fold	

Target Compound Identification

All criteria were met for the VOC and 1,4-dioxane analyses.

Tentatively Identified Compounds

There were no issues noted regarding VOC TIC identifications. There were no TICs in the VOC method blanks or trip blank. All criteria were met.

QUALIFIED FORM 1s

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02I Lab Sample ID: 480-177077-1

Matrix: Water Lab File ID: T8125.D

Analysis Method: 8260C Date Collected: 10/21/2020 09:00

Sample wt/vol: 5(mL) Date Analyzed: 10/25/2020 15:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02I Lab Sample ID: 480-177077-1

Matrix: Water Lab File ID: T8125.D

Analysis Method: 8260C Date Collected: 10/21/2020 09:00

Sample wt/vol: 5(mL) Date Analyzed: 10/25/2020 15:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.56	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	102		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02I Lab Sample ID: 480-177077-1

Matrix: Water Lab File ID: T8125.D

Analysis Method: 8260C Date Collected: 10/21/2020 09:00

Sample wt/vol: 5(mL) Date Analyzed: 10/25/2020 15:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555654 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02S Lab Sample ID: 480-177077-2

Matrix: Water Lab File ID: T8126.D

Analysis Method: 8260C Date Collected: 10/21/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 10/25/2020 15:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02S Lab Sample ID: 480-177077-2

Matrix: Water Lab File ID: T8126.D

Analysis Method: 8260C Date Collected: 10/21/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 10/25/2020 15:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02S Lab Sample ID: 480-177077-2

Matrix: Water Lab File ID: T8126.D

Analysis Method: 8260C Date Collected: 10/21/2020 10:25

Sample wt/vol: 5(mL) Date Analyzed: 10/25/2020 15:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555654 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02D Lab Sample ID: 480-177077-3

Matrix: Water Lab File ID: T8127.D

Analysis Method: 8260C Date Collected: 10/23/2020 11:05

Sample wt/vol: 5(mL) Date Analyzed: 10/25/2020 16:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	~~F1 F2~~	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND	F1 F2	1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND	F1 F2	1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1 F2	1.0	0.31
75-34-3	1,1-Dichloroethane	ND	F1 F2	1.0	0.38
75-35-4	1,1-Dichloroethene	ND	F1 F2	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND	F1 F2	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND	F1 F2	1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND	F1 F2	1.0	0.79
107-06-2	1,2-Dichloroethane	ND	F1 F2	1.0	0.21
78-87-5	1,2-Dichloropropane	ND	F1 F2	1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND	F1 F2	1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND	F1 F2	1.0	0.84
78-93-3	2-Butanone (MEK)	ND	F1 F2	10	1.3
591-78-6	2-Hexanone	ND	F1 F2	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	~~F1 F2~~	5.0	2.1
67-64-1	Acetone	4.1	J ~~F1 F2~~	10	3.0
71-43-2	Benzene	ND	~~F1 F2~~	1.0	0.41
75-27-4	Bromodichloromethane	ND	F1 F2	1.0	0.39
75-25-2	Bromoform	ND	F1 F2	1.0	0.26
74-83-9	Bromomethane	ND	F1 F2	1.0	0.69
75-15-0	Carbon disulfide	ND	F1 F2	1.0	0.19
56-23-5	Carbon tetrachloride	ND	F1 F2	1.0	0.27
108-90-7	Chlorobenzene	ND	F1 F2	1.0	0.75
124-48-1	Dibromochloromethane	ND	F1 F2	1.0	0.32
75-00-3	Chloroethane	ND	F1 F2	1.0	0.32
67-66-3	Chloroform	ND	F1 F2	1.0	0.34
74-87-3	Chloromethane	ND	F1 F2	1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND	F1 F2	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND	F1 F2	1.0	0.36
110-82-7	Cyclohexane	ND	F1 F2	1.0	0.18
75-71-8	Dichlorodifluoromethane	ND	F1 F2	1.0	0.68
100-41-4	Ethylbenzene	ND	F1 F2	1.0	0.74
106-93-4	1,2-Dibromoethane	ND	F1 F2	1.0	0.73
98-82-8	Isopropylbenzene	ND	~~F1 F2~~	1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02D Lab Sample ID: 480-177077-3

Matrix: Water Lab File ID: T8127.D

Analysis Method: 8260C Date Collected: 10/23/2020 11:05

Sample wt/vol: 5(mL) Date Analyzed: 10/25/2020 16:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555654 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	~~F1 F2~~	2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND	F1 F2	1.0	0.16
108-87-2	Methylcyclohexane	ND	F1 F2	1.0	0.16
75-09-2	Methylene Chloride	ND	F1 F2	1.0	0.44
100-42-5	Styrene	ND	F1 F2	1.0	0.73
127-18-4	Tetrachloroethene	ND	F1 F2	1.0	0.36
108-88-3	Toluene	ND	F1 F2	1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND	F1 F2	1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND	F1 F2	1.0	0.37
79-01-6	Trichloroethene	ND	F1 F2	1.0	0.46
75-69-4	Trichlorofluoromethane	ND	F1 F2	1.0	0.88
75-01-4	Vinyl chloride	ND	F1 F2	1.0	0.90
1330-20-7	Xylenes, Total	ND	~~F1 F2~~	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02D Lab Sample ID: 480-177077-3

Matrix: Water Lab File ID: T8127.D

Analysis Method: 8260C Date Collected: 10/23/2020 11:05

Sample wt/vol: 5(mL) Date Analyzed: 10/25/2020 16:19

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555654 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-177077-4

Matrix: Water Lab File ID: C1469.D

Analysis Method: 8260C Date Collected: 10/22/2020 10:30

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 12:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND	UJ	10	1.3
591-78-6	2-Hexanone	ND	UJ	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.1	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-177077-4

Matrix: Water Lab File ID: C1469.D

Analysis Method: 8260C Date Collected: 10/22/2020 10:30

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 12:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	UJ	2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	116		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-177077-4

Matrix: Water Lab File ID: C1469.D

Analysis Method: 8260C Date Collected: 10/22/2020 10:30

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 12:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-09S Lab Sample ID: 480-177077-5

Matrix: Water Lab File ID: C1470.D

Analysis Method: 8260C Date Collected: 10/21/2020 11:15

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 12:45

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
75-34-3	1,1-Dichloroethane	ND		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND	UJ	100	13
591-78-6	2-Hexanone	ND	UJ	50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	ND		10	4.1
75-27-4	Bromodichloromethane	ND		10	3.9
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	ND		10	8.1
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
110-82-7	Cyclohexane	ND		10	1.8
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-09S Lab Sample ID: 480-177077-5

Matrix: Water Lab File ID: C1470.D

Analysis Method: 8260C Date Collected: 10/21/2020 11:15

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 12:45

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	UJ	25	13
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	6.3	~~J~~ J	10	4.4
100-42-5	Styrene	ND		10	7.3
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	ND		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	111		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	82		73-120
1868-53-7	Dibromofluoromethane (Surr)	125	X	75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-09S Lab Sample ID: 480-177077-5

Matrix: Water Lab File ID: C1470.D

Analysis Method: 8260C Date Collected: 10/21/2020 11:15

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 12:45

Soil Aliquot Vol: Dilution Factor: 10

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-10S Lab Sample ID: 480-177077-6

Matrix: Water Lab File ID: C1471.D

Analysis Method: 8260C Date Collected: 10/21/2020 11:45

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 13:10

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND	UJ	40	5.3
591-78-6	2-Hexanone	ND	UJ	20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND		40	12
71-43-2	Benzene	ND		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-00-3	Chloroethane	ND		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
98-82-8	Isopropylbenzene	ND		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-10S Lab Sample ID: 480-177077-6

Matrix: Water Lab File ID: C1471.D

Analysis Method: 8260C Date Collected: 10/21/2020 11:45

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 13:10

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	UJ	10	5.2
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.64
108-87-2	Methylcyclohexane	ND		4.0	0.64
75-09-2	Methylene Chloride	ND		4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	ND		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	83		73-120
1868-53-7	Dibromofluoromethane (Surr)	115		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-10S Lab Sample ID: 480-177077-6

Matrix: Water Lab File ID: C1471.D

Analysis Method: 8260C Date Collected: 10/21/2020 11:45

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 13:10

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-06 Lab Sample ID: 480-177077-7

Matrix: Water Lab File ID: C1472.D

Analysis Method: 8260C Date Collected: 10/21/2020 11:55

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 13:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND	UJ	10	1.3
591-78-6	2-Hexanone	ND	UJ	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-06 Lab Sample ID: 480-177077-7

Matrix: Water Lab File ID: C1472.D

Analysis Method: 8260C Date Collected: 10/21/2020 11:55

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 13:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	UJ	2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	111		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
460-00-4	4-Bromofluorobenzene (Surr)	86		73-120
1868-53-7	Dibromofluoromethane (Surr)	117		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-06 Lab Sample ID: 480-177077-7

Matrix: Water Lab File ID: C1472.D

Analysis Method: 8260C Date Collected: 10/21/2020 11:55

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 13:35

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-11S Lab Sample ID: 480-177077-8

Matrix: Water Lab File ID: C1473.D

Analysis Method: 8260C Date Collected: 10/21/2020 13:30

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 14:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND	UJ	10	1.3
591-78-6	2-Hexanone	ND	UJ	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	5.4	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	0.37	J	1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-11S Lab Sample ID: 480-177077-8

Matrix: Water Lab File ID: C1473.D

Analysis Method: 8260C Date Collected: 10/21/2020 13:30

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 14:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	UJ	2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	5.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	84		73-120
1868-53-7	Dibromofluoromethane (Surr)	114		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-11S Lab Sample ID: 480-177077-8

Matrix: Water Lab File ID: C1473.D

Analysis Method: 8260C Date Collected: 10/21/2020 13:30

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 14:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

Number TICs Found: 2 TIC Result Total: 5.6

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
26952-21-6	Isooctanol	8.94	2.6	T J N	90%
	Unknown	9.35	3.0	T J	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-04S Lab Sample ID: 480-177077-9

Matrix: Water Lab File ID: C1474.D

Analysis Method: 8260C Date Collected: 10/21/2020 14:10

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 14:24

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND	UJ	40	5.3
591-78-6	2-Hexanone	ND	UJ	20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	12	J	40	12
71-43-2	Benzene	ND		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-00-3	Chloroethane	ND		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
98-82-8	Isopropylbenzene	ND		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-04S Lab Sample ID: 480-177077-9

Matrix: Water Lab File ID: C1474.D

Analysis Method: 8260C Date Collected: 10/21/2020 14:10

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 14:24

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	UJ	10	5.2
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.64
108-87-2	Methylcyclohexane	ND		4.0	0.64
75-09-2	Methylene Chloride	1.8	J	4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	2.0	J	4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	108		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		77-120
460-00-4	4-Bromofluorobenzene (Surr)	85		73-120
1868-53-7	Dibromofluoromethane (Surr)	118		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-04S Lab Sample ID: 480-177077-9

Matrix: Water Lab File ID: C1474.D

Analysis Method: 8260C Date Collected: 10/21/2020 14:10

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 14:24

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-03I Lab Sample ID: 480-177077-10

Matrix: Water Lab File ID: C1475.D

Analysis Method: 8260C Date Collected: 10/21/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 14:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND	UJ	10	1.3
591-78-6	2-Hexanone	ND	UJ	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	5.7	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-03I Lab Sample ID: 480-177077-10

Matrix: Water Lab File ID: C1475.D

Analysis Method: 8260C Date Collected: 10/21/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 14:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	UJ	2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.18	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	80		73-120
1868-53-7	Dibromofluoromethane (Surr)	116		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-03I Lab Sample ID: 480-177077-10

Matrix: Water Lab File ID: C1475.D

Analysis Method: 8260C Date Collected: 10/21/2020 14:30

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 14:49

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-08S Lab Sample ID: 480-177077-11

Matrix: Water Lab File ID: C1476.D

Analysis Method: 8260C Date Collected: 10/22/2020 11:00

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 15:14

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND	UJ	40	5.3
591-78-6	2-Hexanone	ND	UJ	20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND		40	12
71-43-2	Benzene	ND		4.0	1.6
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-00-3	Chloroethane	ND		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
110-82-7	Cyclohexane	ND		4.0	0.72
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
98-82-8	Isopropylbenzene	ND		4.0	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-08S Lab Sample ID: 480-177077-11

Matrix: Water Lab File ID: C1476.D

Analysis Method: 8260C Date Collected: 10/22/2020 11:00

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 15:14

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	UJ	10	5.2
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.64
108-87-2	Methylcyclohexane	ND		4.0	0.64
75-09-2	Methylene Chloride	4.5		4.0	1.8
100-42-5	Styrene	ND		4.0	2.9
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	ND		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	112		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	82		73-120
1868-53-7	Dibromofluoromethane (Surr)	120		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-08S Lab Sample ID: 480-177077-11

Matrix: Water Lab File ID: C1476.D

Analysis Method: 8260C Date Collected: 10/22/2020 11:00

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 15:14

Soil Aliquot Vol: Dilution Factor: 4

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-177077-12

Matrix: Water Lab File ID: C1477.D

Analysis Method: 8260C Date Collected: 10/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND	UJ	10	1.3
591-78-6	2-Hexanone	ND	UJ	5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-177077-12

Matrix: Water Lab File ID: C1477.D

Analysis Method: 8260C Date Collected: 10/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND	UJ	2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	80		73-120
1868-53-7	Dibromofluoromethane (Surr)	110		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: TRIP BLANK Lab Sample ID: 480-177077-12

Matrix: Water Lab File ID: C1477.D

Analysis Method: 8260C Date Collected: 10/22/2020 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/26/2020 15:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 555715 Units: ug/L

Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02I Lab Sample ID: 480-177077-1

Matrix: Water Lab File ID: U33159023.D

Analysis Method: 8270D SIM ID Date Collected: 10/21/2020 09:00

Extract. Method: 3510C Date Extracted: 10/26/2020 15:19

Sample wt/vol: 1000(mL) Date Analyzed: 10/28/2020 17:58

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 556213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	26		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02S Lab Sample ID: 480-177077-2

Matrix: Water Lab File ID: U33159024.D

Analysis Method: 8270D SIM ID Date Collected: 10/21/2020 10:25

Extract. Method: 3510C Date Extracted: 10/26/2020 15:19

Sample wt/vol: 1000(mL) Date Analyzed: 10/28/2020 18:21

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 556213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	26		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-02D Lab Sample ID: 480-177077-3

Matrix: Water Lab File ID: U33159021.D

Analysis Method: 8270D SIM ID Date Collected: 10/23/2020 11:05

Extract. Method: 3510C Date Extracted: 10/26/2020 15:19

Sample wt/vol: 1000(mL) Date Analyzed: 10/28/2020 17:11

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 556213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	25		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: DUP Lab Sample ID: 480-177077-4

Matrix: Water Lab File ID: U33159025.D

Analysis Method: 8270D SIM ID Date Collected: 10/22/2020 10:30

Extract. Method: 3510C Date Extracted: 10/26/2020 15:19

Sample wt/vol: 1000(mL) Date Analyzed: 10/28/2020 18:45

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 556213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	24		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-06 Lab Sample ID: 480-177077-7

Matrix: Water Lab File ID: U33159026.D

Analysis Method: 8270D SIM ID Date Collected: 10/21/2020 11:55

Extract. Method: 3510C Date Extracted: 10/26/2020 15:19

Sample wt/vol: 1000(mL) Date Analyzed: 10/28/2020 19:08

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 556213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	28		15-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Client Sample ID: MW-03I Lab Sample ID: 480-177077-10

Matrix: Water Lab File ID: U33159027.D

Analysis Method: 8270D SIM ID Date Collected: 10/21/2020 14:30

Extract. Method: 3510C Date Extracted: 10/26/2020 15:19

Sample wt/vol: 1000(mL) Date Analyzed: 10/28/2020 19:31

Con. Extract Vol.: 1(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 556213 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	30		15-110

QC NONCONFORMANCE DOCUMENTATION

FORM VII

GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Lab Sample ID: CCVIS 480-555715/3 Calibration Date: 10/26/2020 09:28

Instrument ID: HP5973C Calib Start Date: 10/20/2020 16:24

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/20/2020 19:18

Lab File ID: C1463.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.847	1.890	0.1000	25.6	25.0	2.4	50.0
Chloromethane	Ave	1.830	1.853	0.1000	25.3	25.0	1.2	20.0
Vinyl chloride	Ave	1.726	1.790	0.1000	25.9	25.0	3.7	20.0
Butadiene	Ave	1.757	1.841		26.2	25.0	4.8	20.0
Bromomethane	Ave	1.174	1.132	0.1000	24.1	25.0	-3.6	50.0
Chloroethane	Ave	1.057	1.066	0.1000	25.2	25.0	0.9	50.0
Dichlorofluoromethane	Ave	2.552	2.599		25.5	25.0	1.8	20.0
Trichlorofluoromethane	Ave	2.398	2.503	0.1000	26.1	25.0	4.4	20.0
Ethyl ether	Ave	1.406	1.339		23.8	25.0	-4.7	20.0
Acrolein	Ave	0.3308	0.2210		83.5	125	~~-33.2~~	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.434	1.415	0.1000	24.7	25.0	-1.3	20.0
1,1-Dichloroethene	Ave	1.265	1.258	0.1000	24.9	25.0	-0.5	20.0
Acetone	Ave	0.7546	0.6146	0.1000	102	125	-18.6	50.0
Iodomethane	Ave	2.479	2.465		24.9	25.0	-0.6	20.0
Carbon disulfide	Ave	4.657	4.564	0.1000	24.5	25.0	-2.0	20.0
Allyl chloride	Ave	2.371	2.324		24.5	25.0	-2.0	20.0
Methyl acetate	Ave	1.809	1.349	0.1000	37.3	50.0	-25.4	50.0
Methylene Chloride	Lin1		1.471	0.1000	25.3	25.0	1.4	20.0
2-Methyl-2-propanol	Ave	0.2903	0.2312		199	250	~~-20.4~~	50.0
Methyl tert-butyl ether	Ave	4.856	4.559	0.1000	23.5	25.0	-6.1	20.0
trans-1,2-Dichloroethene	Ave	1.532	1.506	0.1000	24.6	25.0	-1.7	20.0
Acrylonitrile	Ave	0.9331	0.7162		192	250	~~-23.2~~*	20.0
Hexane	Ave	2.155	2.117		24.6	25.0	-1.8	20.0
1,1-Dichloroethane	Ave	2.724	2.645	0.2000	24.3	25.0	-2.9	20.0
Vinyl acetate	Ave	3.497	2.939		42.0	50.0	-16.0	20.0
2,2-Dichloropropane	Ave	1.764	1.886		26.7	25.0	6.9	20.0
cis-1,2-Dichloroethene	Ave	1.677	1.598	0.1000	23.8	25.0	-4.7	20.0
2-Butanone (MEK)	Ave	1.154	0.7538	0.1000	81.6	125	-34.7*	20.0
Chlorobromomethane	Ave	0.8975	0.8456		23.6	25.0	-5.8	20.0
Tetrahydrofuran	Ave	0.7667	0.5324		34.7	50.0	~~-30.6~~*	20.0
Chloroform	Ave	2.722	2.537	0.2000	23.3	25.0	-6.8	20.0
1,1,1-Trichloroethane	Ave	2.116	2.127	0.1000	25.1	25.0	0.5	20.0
Cyclohexane	Ave	2.627	2.722	0.1000	25.9	25.0	3.6	20.0
Carbon tetrachloride	Ave	1.672	1.801	0.1000	26.9	25.0	7.7	20.0
1,1-Dichloropropene	Ave	1.979	1.900		24.0	25.0	-4.0	20.0
Benzene	Ave	5.452	4.983	0.5000	22.9	25.0	-8.6	20.0
Isobutyl alcohol	Ave	0.0957	0.0663		433	625	~~-30.7~~	50.0
1,2-Dichloroethane	Ave	2.357	2.103	0.1000	22.3	25.0	-10.8	20.0
n-Heptane	Ave	2.182	1.985		22.7	25.0	-9.1	20.0
Trichloroethene	Ave	1.494	1.350	0.2000	22.6	25.0	-9.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Lab Sample ID: CCVIS 480-555715/3 Calibration Date: 10/26/2020 09:28

Instrument ID: HP5973C Calib Start Date: 10/20/2020 16:24

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 10/20/2020 19:18

Lab File ID: C1463.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.418	2.490	0.1000	25.7	25.0	3.0	20.0
1,2-Dichloropropane	Ave	1.323	1.168	0.1000	22.1	25.0	-11.7	20.0
1,4-Dioxane	Ave	0.0096	0.0095		499	500	-0.2	50.0
Dibromomethane	Ave	0.9945	0.8499	0.1000	21.4	25.0	-14.5	20.0
Bromodichloromethane	Ave	1.669	1.521	0.2000	22.8	25.0	-8.9	20.0
2-Chloroethyl vinyl ether	Ave	0.9718	0.6402		16.5	25.0	-34.1*	20.0
cis-1,3-Dichloropropene	Ave	1.907	1.545	0.2000	20.3	25.0	-18.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.022	0.8582	0.1000	105	125	-16.0	20.0
Toluene	Ave	1.524	1.475	0.4000	24.2	25.0	-3.2	20.0
trans-1,3-Dichloropropene	Ave	0.8439	0.7312	0.1000	21.7	25.0	-13.4	20.0
Ethyl methacrylate	Ave	0.8209	0.6960		21.2	25.0	-15.2	20.0
1,1,2-Trichloroethane	Ave	0.4986	0.4360	0.1000	21.9	25.0	-12.5	20.0
Tetrachloroethene	Ave	0.6486	0.6436	0.2000	24.8	25.0	-0.8	20.0
1,3-Dichloropropane	Ave	1.044	0.8673		20.8	25.0	-17.0	20.0
2-Hexanone	Ave	0.7544	0.4899	0.1000	81.2	125	-35.1*	20.0
Dibromochloromethane	Ave	0.5680	0.5451	0.1000	24.0	25.0	-4.0	20.0
1,2-Dibromoethane	Ave	0.6739	0.5505		20.4	25.0	-18.3	20.0
Chlorobenzene	Ave	1.873	1.649	0.5000	22.0	25.0	-12.0	20.0
Ethylbenzene	Ave	3.143	2.867	0.1000	22.8	25.0	-8.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5737	0.6593		28.7	25.0	14.9	20.0
m,p-Xylene	Ave	1.280	1.121	0.1000	21.9	25.0	-12.5	20.0
o-Xylene	Ave	1.238	1.193	0.3000	24.1	25.0	-3.6	20.0
Styrene	Ave	2.060	1.767	0.3000	21.4	25.0	-14.2	20.0
Bromoform	Ave	0.3937	0.3195	0.1000	20.3	25.0	-18.8	50.0
Isopropylbenzene	Ave	2.967	3.333	0.1000	28.1	25.0	12.3	20.0
Bromobenzene	Ave	0.7870	0.7158		22.7	25.0	-9.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9812	0.8558	0.3000	21.8	25.0	-12.8	20.0
N-Propylbenzene	Ave	3.641	3.657		25.1	25.0	0.4	20.0
1,2,3-Trichloropropane	Ave	0.3452	0.2793		20.2	25.0	-19.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3505	0.1943		13.9	25.0	-44.6	50.0
2-Chlorotoluene	Ave	0.7383	0.7596		25.7	25.0	2.9	20.0
1,3,5-Trimethylbenzene	Ave	2.608	2.837		27.2	25.0	8.8	20.0
4-Chlorotoluene	Ave	0.7788	0.7147		22.9	25.0	-8.2	20.0
tert-Butylbenzene	Ave	0.5840	0.5978		25.6	25.0	2.4	20.0
1,2,4-Trimethylbenzene	Ave	2.651	2.843		26.8	25.0	7.2	20.0
sec-Butylbenzene	Ave	3.318	3.589		27.0	25.0	8.2	20.0
4-Isopropyltoluene	Ave	2.843	3.153		27.7	25.0	10.9	20.0
1,3-Dichlorobenzene	Ave	1.543	1.414	0.6000	22.9	25.0	-8.4	20.0
1,4-Dichlorobenzene	Ave	1.599	1.391	0.5000	21.7	25.0	-13.0	20.0
n-Butylbenzene	Ave	2.585	2.735		26.4	25.0	5.8	20.0
1,2-Dichlorobenzene	Ave	1.554	1.476	0.4000	23.7	25.0	-5.0	20.0

Surrogate Summary

Client: New York State D.E.C.
Job ID: 480-177077-1
Project/Site: SMP B - Mahopac Business District Wells

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TOL	DCA	BFB	DBFM				
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)				
480-177077-1	MW-02I	102	106	97	103				
480-177077-2	MW-02S	101	101	96	98				
480-177077-3	MW-02D	99	105	94	102				
480-177077-3 MS	MW-02D	106	97	87	111				
480-177077-3 MSD	MW-02D	114	103	90	113				
480-177077-4	DUP	116	103	93	112				
480-177077-5	MW-09S	111	105	82	125 X				
480-177077-6	MW-10S	110	104	83	115				
480-177077-7	MW-06	111	107	86	117				
480-177077-8	MW-11S	110	105	84	114				
480-177077-9	MW-04S	108	107	85	118				
480-177077-10	MW-03I	109	101	80	116				
480-177077-11	MW-08S	112	108	82	120				
480-177077-12	TRIP BLANK	110	105	80	110				
LCS 480-555654/5	Lab Control Sample	105	101	102	104				
LCS 480-555715/29	Lab Control Sample	105	105	90	110				
MB 480-555654/7	Method Blank	102	101	98	98				
MB 480-555715/7	Method Blank	108	111	84	115				

Surrogate Legend

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

FORM III

GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C1487.D

Lab ID: 480-177077-3 MS Client ID: MW-02D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	ND	35.0	140	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	ND	26.0	104	76-120	
1,1,2-Trichloroethane	25.0	ND	24.0	96	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	ND	30.9	124	61-148	
1,1-Dichloroethane	25.0	ND	31.8	127	77-120	F1
1,1-Dichloroethene	25.0	ND	35.3	141	66-127	F1
1,2,4-Trichlorobenzene	25.0	ND	31.5	126	79-122	F1
1,2-Dibromo-3-Chloropropane	25.0	ND	23.5	94	56-134	
1,2-Dichlorobenzene	25.0	ND	30.8	123	80-124	
1,2-Dichloroethane	25.0	ND	25.3	101	75-120	
1,2-Dichloropropane	25.0	ND	26.9	108	76-120	
1,3-Dichlorobenzene	25.0	ND	27.9	112	77-120	
1,4-Dichlorobenzene	25.0	ND	26.5	106	78-124	
2-Butanone (MEK)	125	ND	84.8	68	57-140	
2-Hexanone	125	ND	85.9	69	65-127	
4-Methyl-2-pentanone (MIBK)	125	ND	114	91	71-125	
Acetone	125	4.1 J	116	89	56-142	
Benzene	25.0	ND	28.8	115	71-124	
Bromodichloromethane	25.0	ND	26.6	106	80-122	
Bromoform	25.0	ND	20.7	83	61-132	
Bromomethane	25.0	ND	33.6	134	55-144	
Carbon disulfide	25.0	ND	31.8	127	59-134	
Carbon tetrachloride	25.0	ND	35.6	143	72-134	F1
Chlorobenzene	25.0	ND	26.0	104	80-120	
Dibromochloromethane	25.0	ND	26.0	104	75-125	
Chloroethane	25.0	ND	34.9	140	69-136	F1
Chloroform	25.0	ND	30.4	122	73-127	
Chloromethane	25.0	ND	34.9	140	68-124	F1
cis-1,2-Dichloroethene	25.0	ND	32.0	128	74-124	F1
cis-1,3-Dichloropropene	25.0	ND	21.8	87	74-124	
Cyclohexane	25.0	ND	31.6	127	59-135	
Dichlorodifluoromethane	25.0	ND	29.6	119	59-135	
Ethylbenzene	25.0	ND	27.9	112	77-123	
1,2-Dibromoethane	25.0	ND	22.2	89	77-120	
Isopropylbenzene	25.0	ND	36.7	147	77-122	F1
Methyl acetate	50.0	ND	37.0	74	74-133	
Methyl tert-butyl ether	25.0	ND	30.5	122	77-120	F1
Methylcyclohexane	25.0	ND	29.9	120	68-134	
Methylene Chloride	25.0	ND	35.5	142	75-124	F1
Styrene	25.0	ND	24.8	99	80-120	
Tetrachloroethene	25.0	ND	29.1	117	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C1487.D

Lab ID: 480-177077-3 MS Client ID: MW-02D MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	25.0	ND	29.1	116	80-122	
trans-1,2-Dichloroethene	25.0	ND	33.3	133	73-127	F1
trans-1,3-Dichloropropene	25.0	ND	22.0	88	80-120	
Trichloroethene	25.0	ND	27.1	108	74-123	
Trichlorofluoromethane	25.0	ND	34.7	139	62-150	
Vinyl chloride	25.0	ND	35.6	142	65-133	F1
Total Xylenes	50.0	ND	56.7	113	76-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-177077-1

SDG No.:

Matrix: Water Level: Low Lab File ID: C1488.D

Lab ID: 480-177077-3 MSD Client ID: MW-02D MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	31.7	127	10	15	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	25.0	100	4	15	76-120	
1,1,2-Trichloroethane	25.0	24.1	96	0	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.9	112	10	20	61-148	
1,1-Dichloroethane	25.0	30.1	120	6	20	77-120	
1,1-Dichloroethene	25.0	32.0	128	10	16	66-127	F1
1,2,4-Trichlorobenzene	25.0	29.1	116	8	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	22.3	89	5	15	56-134	
1,2-Dichlorobenzene	25.0	28.5	114	8	20	80-124	
1,2-Dichloroethane	25.0	25.5	102	1	20	75-120	
1,2-Dichloropropane	25.0	26.4	106	2	20	76-120	
1,3-Dichlorobenzene	25.0	26.9	108	4	20	77-120	
1,4-Dichlorobenzene	25.0	25.5	102	4	20	78-124	
2-Butanone (MEK)	125	89.8	72	6	20	57-140	
2-Hexanone	125	88.5	71	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	114	91	0	35	71-125	
Acetone	125	114	88	1	15	56-142	
Benzene	25.0	28.1	113	3	13	71-124	
Bromodichloromethane	25.0	27.5	110	3	15	80-122	
Bromoform	25.0	21.6	87	4	15	61-132	
Bromomethane	25.0	31.3	125	7	15	55-144	
Carbon disulfide	25.0	28.8	115	10	15	59-134	
Carbon tetrachloride	25.0	32.8	131	8	15	72-134	
Chlorobenzene	25.0	25.8	103	1	25	80-120	
Dibromochloromethane	25.0	26.5	106	2	15	75-125	
Chloroethane	25.0	32.0	128	9	15	69-136	
Chloroform	25.0	29.3	117	4	20	73-127	
Chloromethane	25.0	32.5	130	7	15	68-124	F1
cis-1,2-Dichloroethene	25.0	29.6	119	8	15	74-124	
cis-1,3-Dichloropropene	25.0	23.1	92	6	15	74-124	
Cyclohexane	25.0	29.0	116	9	20	59-135	
Dichlorodifluoromethane	25.0	28.4	114	4	20	59-135	
Ethylbenzene	25.0	27.1	109	3	15	77-123	
1,2-Dibromoethane	25.0	22.8	91	3	15	77-120	
Isopropylbenzene	25.0	34.5	138	6	20	77-122	F1
Methyl acetate	50.0	38.9	78	5	20	74-133	
Methyl tert-butyl ether	25.0	27.9	111	9	37	77-120	
Methylcyclohexane	25.0	27.8	111	7	20	68-134	
Methylene Chloride	25.0	32.4	130	9	15	75-124	F1
Styrene	25.0	24.2	97	3	20	80-120	
Tetrachloroethene	25.0	28.9	116	1	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C