New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A, 12th Floor
625 Broadway, Albany, New York 12233-7015
Phone: (518) 402-9620 • **Fax:** (518) 402-9627
Website: www.dec.ny.gov

MEMORANDUM

TO: FILE

FROM: Brian Jankauskas, PE

SUBJECT: **VOC Groundwater Sampling April 2021**

Site Name: Farmingdale Plaza Cleaners **Site Code:** 130107

City: Farmingdale **County:** Nassau

DATE: October 4, 2021

The Farmingdale Plaza Cleaners site is located in Farmingdale, New York. Groundwater monitoring was performed at the above-referenced site by the New York State Department of Environmental Conservation (NYSDEC) to assess current conditions within the off-site plume known as Plume B, which primarily consists of tetrachloroethene (PCE). Plume A is associated with the nearby Liberty Industrial Finishing site and primarily consists of trichloroethene (TCE). Contamination located within Plume A is presently being captured by a groundwater pump and treat system for the Liberty Industrial Finishing site.

Figure 1 shows both sites, plumes A and B, extraction wells, and some of the monitoring wells. Plume A 2012 reflects 2012 TCE extents presented in the 2013 Remedial Investigation Report. Two years of Plume B data (2012 and 2017) is presented. Plume B 2012 reflects 2012 PCE extents presented in the 2013 Remedial Investigation Report. Plume B 2017 incorporates 2012 and 2017 PCE groundwater results to present plume extents representative of more recent conditions. The northern extent of Plume B was adjusted south based on groundwater concentrations from MW-48C, which were slightly above groundwater criteria.

In 2018, an extraction well was installed near MW-47C, which is located down-gradient (south) of MW-28C and MW-28D. Concentrations at EW and MW-47C are used to assess the migration of site contamination. The extraction well is presently not operational since a pump has not been installed into the well.

Details of the April 2021 groundwater sampling activities are presented below.

Groundwater Monitoring Procedures

A groundwater sampling event was performed to assess site contaminants from select wells, identified as MW-28C, MW-28D, and EW, see Figure 2 for locations. On November 3, 2020, passive diffusion bags (PDB) were set within the well screen of each well to equilibrate. On April 6, 2021, the PDB were retrieved, and their contents were poured into laboratory provided containers. Groundwater monitoring activities were performed in accordance with EPA Region 4 Groundwater Sampling Procedures, dated April 26, 2017. Field notes are provided in Appendix A.

Samples were provided to Test America Laboratories, Inc., a New York State Department of Health NELAP-certified laboratory. Samples were analyzed for volatile organic compounds by method 8260C. The laboratory results are included in Appendix B. Quality assurance/quality control (QA/QC) samples were also obtained to verify the quality of the sampling program. A duplicate and trip blank were collected during the sampling event.

Groundwater Monitoring Results

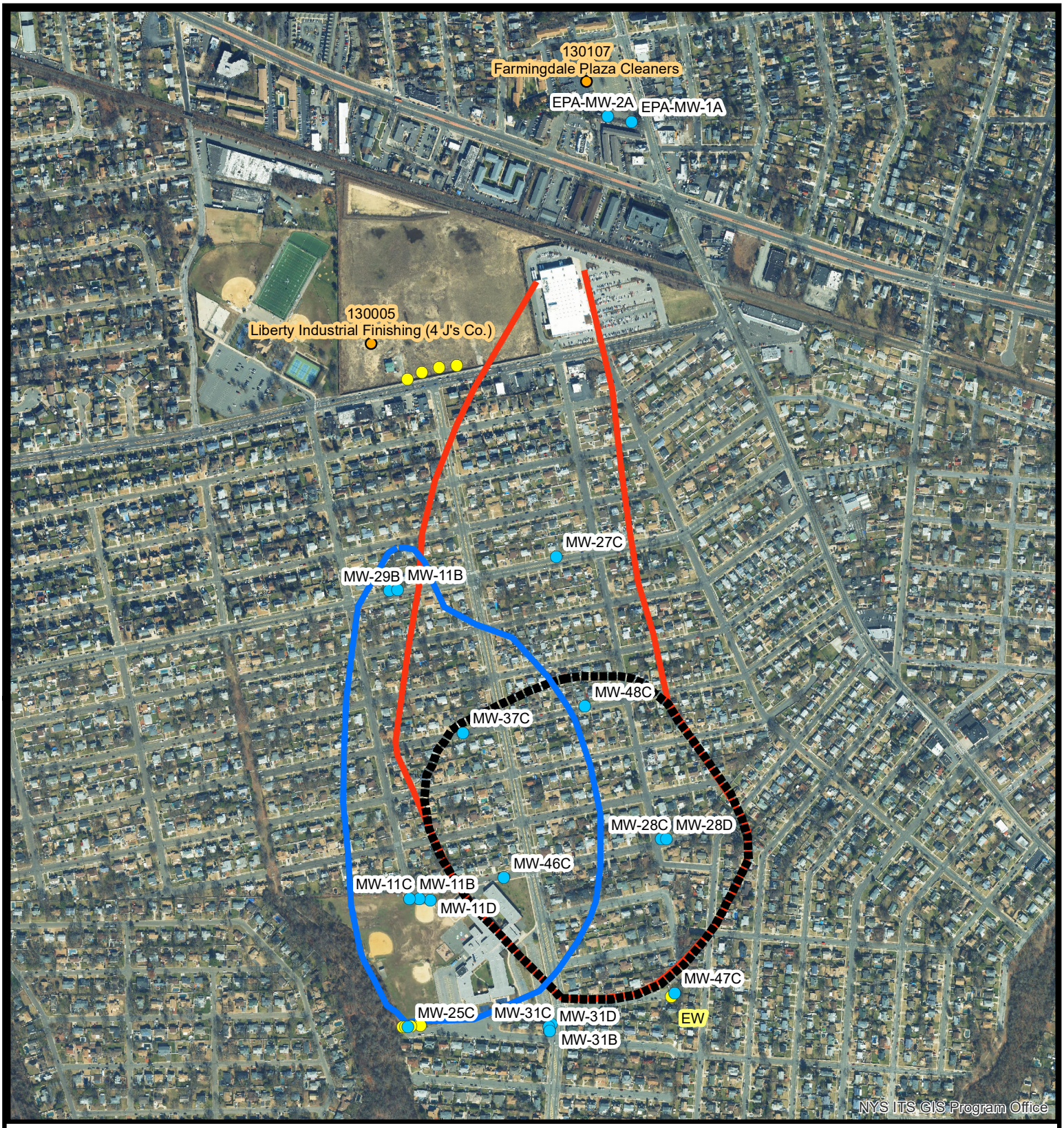
The analytical results are presented in Table 1. The highest PCE detection was 63 micrograms per liter (ug/l), which is above the groundwater standard of 5 ug/l, at MW-28C. The sample from MW-28D detected PCE at 40 ug/l. The concentration of PCE at the extraction well location was 10 ug/l, which is slightly above the groundwater standard. The only other chemical detected above criteria was methyl tert-butyl ether at well EW. Figure 1 shows site contamination detected.

The field duplicate had comparable results to the parent sample from well EW. The trip blank sampled showed no detections. Based on the review of the QA/QC samples and the laboratory narrative, the analytical results are usable for assessing groundwater conditions.

An evaluation of PCE trends at MW-28C indicates that the PCE results increased in April 2021. An evaluation of PCE trends at MW-28D and EW showed a slight increase. Table 2 shows the PCE trends at MW-28C and MW-28D. Minor detections of PCE breakdown products were detected. Continued groundwater monitoring is recommended.

Table 2: PCE Trends at MW-28C and MW-28D from March 2012 to January 2020

Sample Date	MW-28C	MW-28D
March 2012	74 ug/l	78 ug/l
August 2015	48 ug/l	42 ug/l
April 2017	41 ug/l	36 ug/l
December 2017	20 ug/l	40 ug/l
May 2018	46 ug/l	60 ug/l
January 2020	35 ug/l	36 ug/l
April 2021	63 ug/l	40 ug/l



N

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Legend

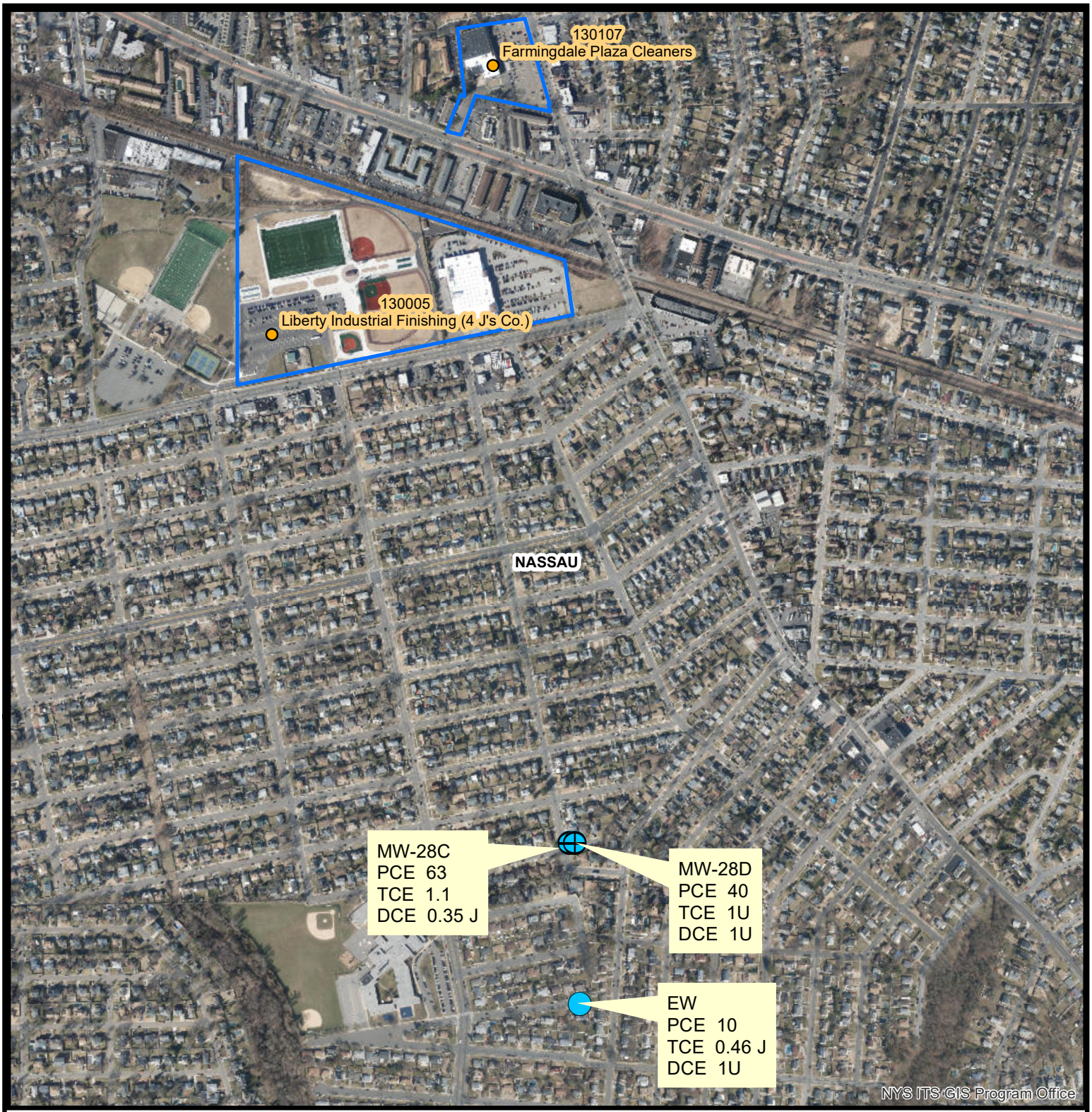
- Remediation Sites
- Monitoring Well
- Extraction Well
- Plume A 2012
- Plume B 2012
- Plume B 2017

well and plume extents are approximate

0 350 700 Feet

1 in = 700 feet

Figure 1: Plume Map
Farmingdale Plaza Cleaners - Farmingdale, NY
Site Number 130107



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Legend

- Remediation Sites
- Remediation Site Borders
- EW
- Monitoring Well

0 350 700 Feet

1 in = 700 feet

Figure 2: Groundwater Results - April 2021
Farmingdale Plaza Cleaners - Farmingdale, NY
Site Number 130107

Table 1: Volatile Organic Compound Results - April 6, 2021
Farmingdale Plaza Cleaners - Farmingdale NY
Site Number 130107

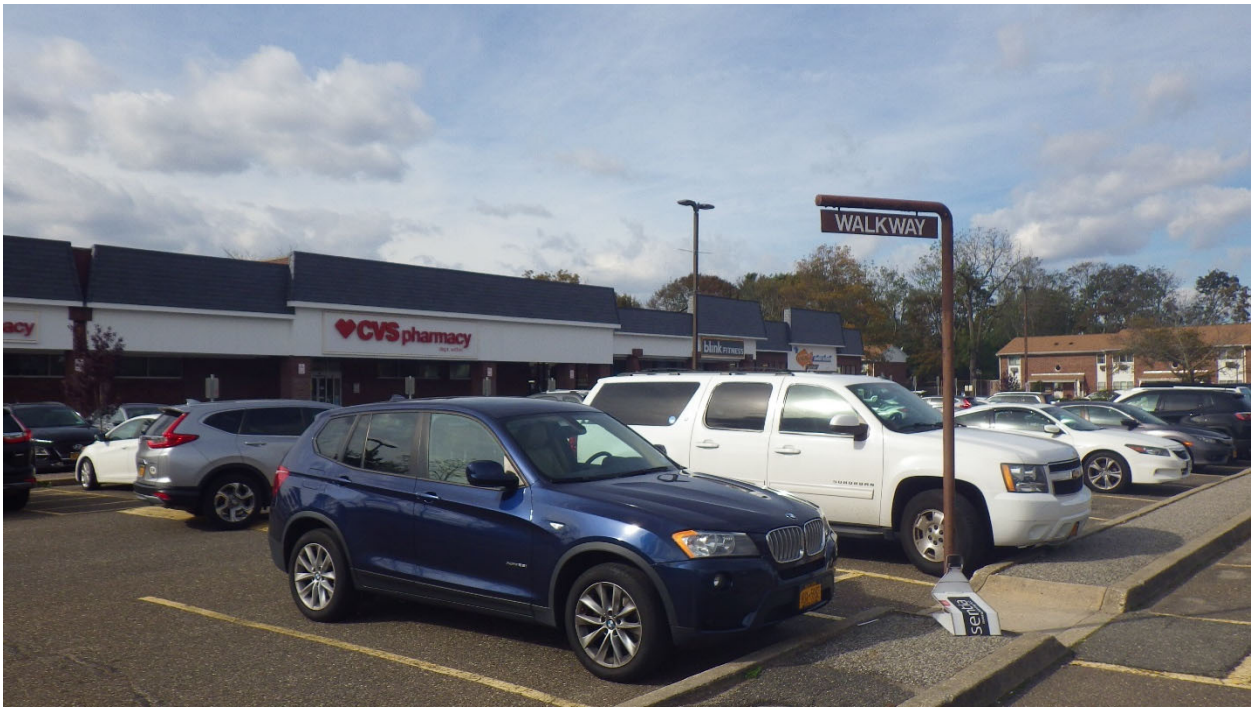
	Well ID	EW		EW (Duplicate)		MW-28C		MW-28D		Trip Blank	
	Start Depth (ft)	127.5		127.5		112		171			
	End Depth (ft)	147.5		147.5		122		181			
Chemical Name	Criteria	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,1,1-Trichloroethane (TCA)	5	1	U	1	U	1	U	0.39	J	1	U
1,1,2,2-Tetrachloroethane	5	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	1	U	1	U	1	U	1	U	1	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	0.6	J	1	U
1,1-Dichloroethane	5	1.9		2		0.26	J	1.4		1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	0.95	J	1	U
1,2,3-Trichlorobenzene	5	1	U	1	U	1	U	1	U	1	U
1,2,4-Trichlorobenzene	5	1	U	1	U	1	U	1	U	1	U
1,2-Dibromo-3-Chloropropane	0.04	1	U	1	U	1	U	1	U	1	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	1	U	1	U	1	U	1	U	1	U
1,2-Dichlorobenzene	3	1	U	1	U	0.66	J	1	U	1	U
1,2-Dichloroethane	0.6	1	U	1	U	1	U	1	U	1	U
1,2-Dichloropropane	1	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U	1	U	1	U	1	U
2-Hexanone	50	5	U	5	U	5	U	5	U	5	U
Acetone	50	5.5		5.1		5	U	8.1		5	U
Benzene	1	1	U	1	U	1	U	1	U	1	U
Bromochloromethane	50	1	U	1	U	1	U	1	U	1	U
Bromodichloromethane	50	1	U	1	U	1	U	1	U	1	U
Bromoform	50	1	U	1	U	1	U	1	U	1	U
Bromomethane	5	1	U	1	U	1	U	1	U	1	U
Carbon Disulfide	60	1	U	1	U	1	U	1	U	1	U
Carbon Tetrachloride	5	1	U	1	U	1	U	1	U	1	U
Chlorobenzene	5	1	U	1	U	1	U	1	U	1	U
Chloroethane	5	1	U	1	U	1	U	1	U	1	U
Chloroform	7	1	U	1	U	1	U	1	U	1	U
Chloromethane	5	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethylene	5	1	U	1	U	0.35	J	1	U	1	U
Cis-1,3-Dichloropropene	0.4	1	U	1	U	1	U	1	U	1	U
Cyclohexane	NC	1	U	1	U	1	U	1	U	1	U
Dibromochloromethane	50	1	U	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	5	2		2.3		1.2		1	U	1	U
Ethylbenzene	5	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene (Cumene)	5	1	U	1	U	1	U	1	U	1	U
m,p-Xylene	5	1	U	1	U	1	U	1	U	1	U
Methyl Acetate	NC	5	U	5	U	5	U	5	U	5	U
Methyl Ethyl Ketone (2-Butanone)	50	5	U	5	U	5	U	5	U	5	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NC	5	U	5	U	5	U	5	U	5	U
Methylcyclohexane	NC	1	U	1	U	1	U	1	U	1	U
Methylene Chloride	5	1	U	1	U	1	U	1	U	1	U
O-Xylene (1,2-Dimethylbenzene)	5	1	U	1	U	1	U	1	U	1	U
Styrene	5	1	U	1	U	1	U	1	U	1	U
Tert-Butyl Methyl Ether	10	41		41		6		1	U	1	U
Tetrachloroethylene (PCE)	5	10		9.8		63		40		1	U
Toluene	5	1	U	1	U	1	U	1	U	1	U
Trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	1	U
Trans-1,3-Dichloropropene	0.4	1	U	1	U	1	U	1	U	1	U
Trichloroethylene (TCE)	5	0.46	J	0.38	J	1.1		1	U	1	U
Trichlorofluoromethane	5	1	U	1	U	1	U	1	U	1	U
Vinyl Chloride	2	1	U	1	U	1	U	1	U	1	U

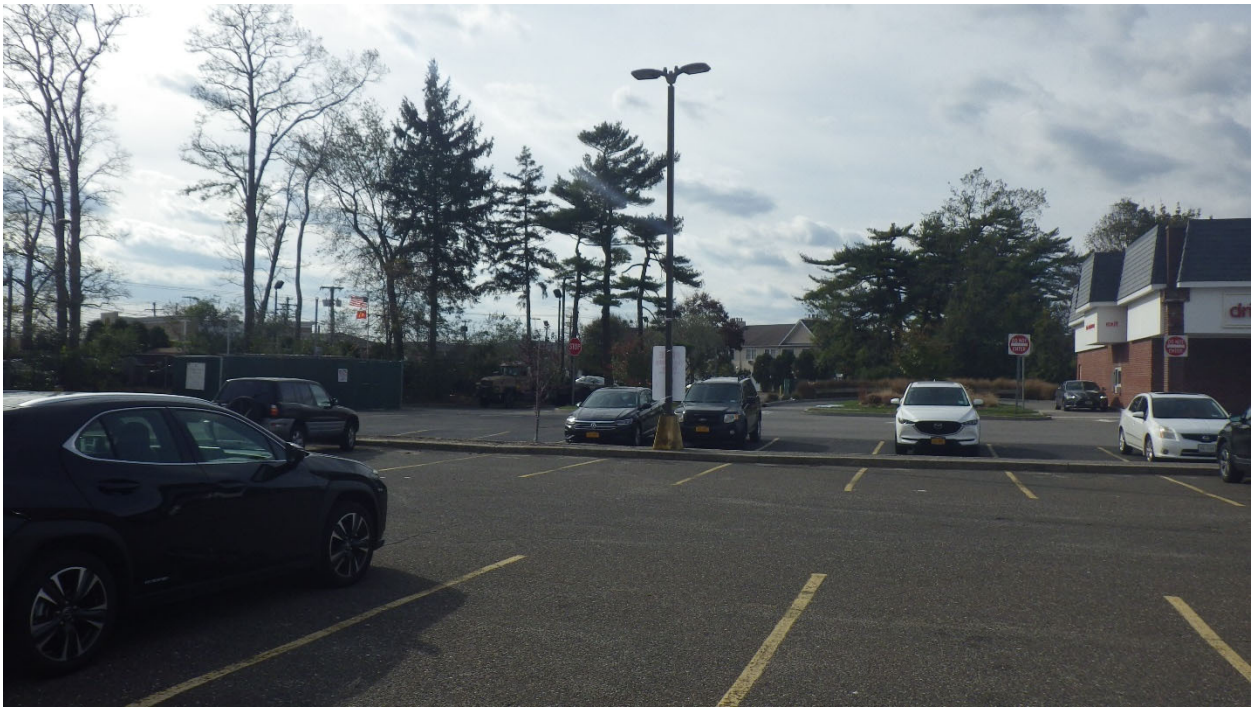
Notes:
Groundwater Standards are from Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1)
highlighted results exceed groundwater criteria
NC: No Criteria
ug/l: micrograms per liter
U: not detected above the level of the associated quantitation limit.
J: positively identified, numerical value is an approximate concentration.

Appendix A

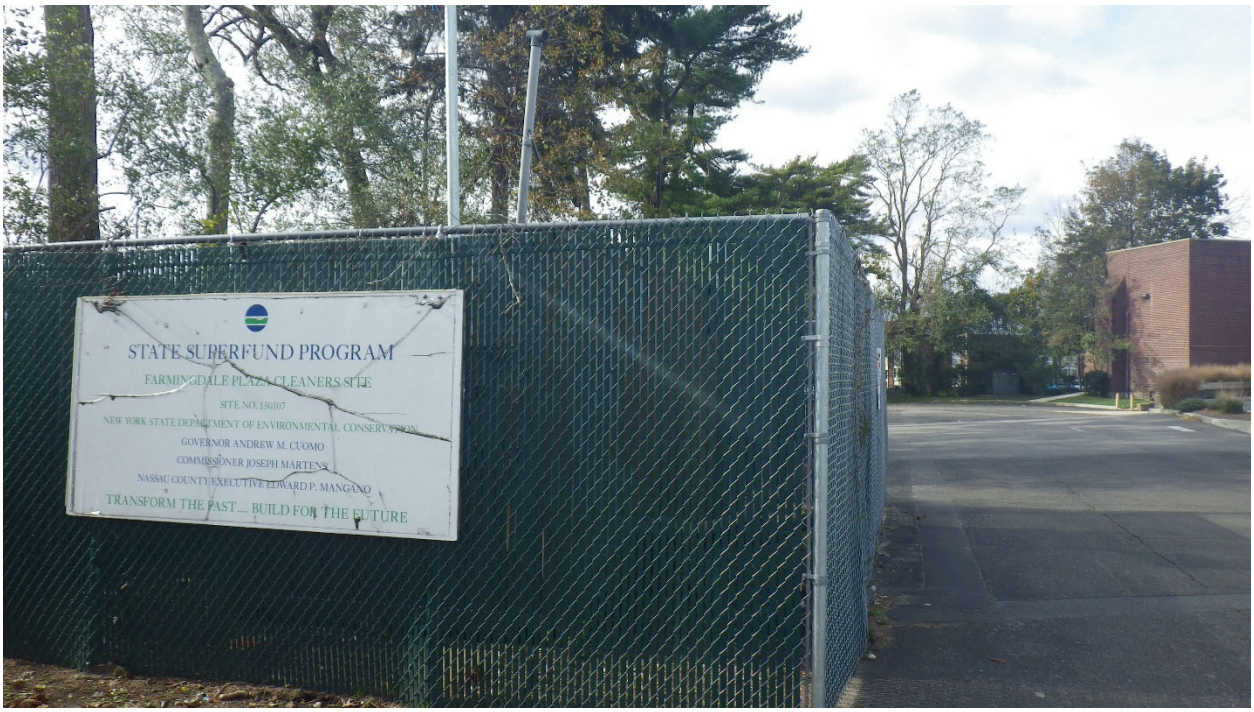
Site Walk Pictures 11-3-20

Site Parking Lot





SVE System


STATE SUPERFUND PROGRAM
FARMINGDALE PLAZA CLEANERS SITE
SITE NO. 130107
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
GOVERNOR ANDREW M. CUOMO
COMMISSIONER JOSEPH MARTENS
NASSAU COUNTY EXECUTIVE EDWARD P. MANGANO
TRANSFORM THE PAST.... BUILD FOR THE FUTURE

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

Division of Environmental Remediation
Central Office

Field Log

Site Code #: 130107	Date: 4/6/21

Site Name: Farmingdale Plaza Cleaners
Location: Farmingdale, NY
DEC Project Manager: Brian Jankowski

	AM	PM
Weather	Sunny	
Temperature	44	
Wind Direction	N to S	

Objective: Sample diffusion bags at EW, MW-28C, and MW-28D

Description of Inspection Activities and Discussions:

7:15 At site, SVE system sounds like it is working.
7:40 Collect EW & DUP
8:15 Collect MW 28 C
8:30 Collect MW 28 D, obtained new bolts for MW-28D stainless 5/16 x 1
9:30 off site

Health & Safety:
Level of protection: Level D, used nitrile gloves

Site Representative:
Representative's Signature: [signature]

Date: 4/6/21

777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Brian Jankauskas	Lab PM: Gilmore, Julie L	Carrier Tracking No(s):	COC No: 460-140027-90650.1
Client Contact: Mr. Brian Jankauskas	Phone: 518-402-9626	E-Mail: Julie.Gilmore@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: New York State D.E.C.	PWSID:			Job #:

Address: 625 Broadway 12th Floor	Due Date Requested:	Analysis Requested
City: Albany	TAT Requested (days): Standard	
State, Zip: NY, 12233-7017	Compliance Project: Δ Yes Δ No	
Phone: 518-402-9626(Tel)	PO #: Callout: 136424; Site: 130107	
Email: brian.jankauskas@dec.ny.gov	WO #: Farmingdale Plaza Cleaners	
Project Name: DEC - FARMINGDALE480 SITE: 130107	Project #: 46009084	
Site:	SSOW#:	

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, 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)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - Target Compound List for VOCs updated SO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
EW-4-6-21	4-6-21	740		Water			3	3	
MW-28C-4-6-21	4-6-21	815		Water			3	3	
MW-28D-4-6-21	4-6-21	830		Water			3	3	
DUP-4-6-21	4-6-21	—		Water			2	2	
TB-4-6-21	4-6-21	—		Water			2	2	

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: 4/6/21 1641	Company: NYSDEC	Received by:	Date/Time: 4-6-2021 1641	Company: EEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver: 11/01/2020

Appendix B

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-231650-1
Client Project/Site: Farmingdale Plaza Cleaners Site:130107

For:
New York State D.E.C.
625 Broadway 9th Floor
Albany, New York 12233-7258

Attn: Mr. Brian Jankauskas

Authorized for release by:
4/12/2021 1:36:13 PM

Julie Gilmore, Project Manager I
(484)685-0865
Julie.Gilmore@Eurofinset.com

Table of Contents

Definitions/Glossary

Client: New York State D.E.C. Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Indicates an estimated value.
U	Analyzed for but not detected.

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: 460-231650-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: New York State D.E.C.

Project: Farmingdale Plaza Cleaners Site:130107

Report Number: 460-231650-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/08/2021; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.9 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples EW-4-6-21 (460-231650-1), MW-28C-4-6-21 (460-231650-2), MW-28D-4-6-21 (460-231650-3), DUP-4-6-21 (460-231650-4) and TB-4-6-21 (460-231650-5) were analyzed for Volatile Organic Compounds (GC/MS) in accordance with EPA SW-846 Method 8260D. The samples were analyzed on 04/10/2021.

The continuing calibration verification (CCV) analyzed in batch 460-770518 was outside the method criteria for the following analytes: Bromoform (bias low), Chloromethane and Vinyl chloride (bias high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

No difficulties were encountered during the Volatiles analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

Client Sample ID: EW-4-6-21
Lab Sample ID: 460-231650-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.9		1.0	0.26	ug/L	1		8260D	Total/NA
Acetone	5.5		5.0	4.4	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	2.0		1.0	0.31	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	41		1.0	0.22	ug/L	1		8260D	Total/NA
Tetrachloroethene	10		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.46	J	1.0	0.31	ug/L	1		8260D	Total/NA

Client Sample ID: MW-28C-4-6-21
Lab Sample ID: 460-231650-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.26	J	1.0	0.26	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	0.35	J	1.0	0.22	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	1.2		1.0	0.31	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	6.0		1.0	0.22	ug/L	1		8260D	Total/NA
Tetrachloroethene	63		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	1.1		1.0	0.31	ug/L	1		8260D	Total/NA
1,2-Dichlorobenzene	0.66	J	1.0	0.21	ug/L	1		8260D	Total/NA

Client Sample ID: MW-28D-4-6-21
Lab Sample ID: 460-231650-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.39	J	1.0	0.24	ug/L	1		8260D	Total/NA
1,1,2-Trichloroethane	0.60	J	1.0	0.20	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.4		1.0	0.26	ug/L	1		8260D	Total/NA
1,1-Dichloroethene	0.95	J	1.0	0.26	ug/L	1		8260D	Total/NA
Acetone	8.1		5.0	4.4	ug/L	1		8260D	Total/NA
Tetrachloroethene	40		1.0	0.25	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-4-6-21
Lab Sample ID: 460-231650-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.0		1.0	0.26	ug/L	1		8260D	Total/NA
Acetone	5.1		5.0	4.4	ug/L	1		8260D	Total/NA
Dichlorodifluoromethane	2.3		1.0	0.31	ug/L	1		8260D	Total/NA
Methyl tert-butyl ether	41		1.0	0.22	ug/L	1		8260D	Total/NA
Tetrachloroethene	9.8		1.0	0.25	ug/L	1		8260D	Total/NA
Trichloroethene	0.38	J	1.0	0.31	ug/L	1		8260D	Total/NA

Client Sample ID: TB-4-6-21
Lab Sample ID: 460-231650-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

Client Sample ID: EW-4-6-21
Lab Sample ID: 460-231650-1

Date Collected: 04/06/21 07:40
Matrix: Water

Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/10/21 01:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			04/10/21 01:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/10/21 01:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			04/10/21 01:57	1
1,1-Dichloroethane	**1.9**		1.0	0.26	ug/L			04/10/21 01:57	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/10/21 01:57	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			04/10/21 01:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			04/10/21 01:57	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			04/10/21 01:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/10/21 01:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/10/21 01:57	1
1,4-Dioxane	50	U	50	28	ug/L			04/10/21 01:57	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/10/21 01:57	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			04/10/21 01:57	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			04/10/21 01:57	1
Acetone	**5.5**		5.0	4.4	ug/L			04/10/21 01:57	1
Benzene	1.0	U	1.0	0.20	ug/L			04/10/21 01:57	1
Bromoform	1.0	U	1.0	0.54	ug/L			04/10/21 01:57	1
Bromomethane	1.0	U	1.0	0.55	ug/L			04/10/21 01:57	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			04/10/21 01:57	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/10/21 01:57	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/10/21 01:57	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			04/10/21 01:57	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			04/10/21 01:57	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/10/21 01:57	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/10/21 01:57	1
Chloromethane	1.0	U	1.0	0.40	ug/L			04/10/21 01:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/10/21 01:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 01:57	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			04/10/21 01:57	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			04/10/21 01:57	1
Dichlorodifluoromethane	**2.0**		1.0	0.31	ug/L			04/10/21 01:57	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/10/21 01:57	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			04/10/21 01:57	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			04/10/21 01:57	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			04/10/21 01:57	1
Methyl tert-butyl ether	**41**		1.0	0.22	ug/L			04/10/21 01:57	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			04/10/21 01:57	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/10/21 01:57	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			04/10/21 01:57	1
o-Xylene	1.0	U	1.0	0.36	ug/L			04/10/21 01:57	1
Styrene	1.0	U	1.0	0.42	ug/L			04/10/21 01:57	1
Tetrachloroethene	**10**		1.0	0.25	ug/L			04/10/21 01:57	1
Toluene	1.0	U	1.0	0.38	ug/L			04/10/21 01:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/10/21 01:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 01:57	1
Trichloroethene	**0.46**	**J**	1.0	0.31	ug/L			04/10/21 01:57	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			04/10/21 01:57	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/10/21 01:57	1

Client Sample ID: EW-4-6-21
Lab Sample ID: 460-231650-1

Date Collected: 04/06/21 07:40
Matrix: Water
Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/10/21 01:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/10/21 01:57	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			04/10/21 01:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*		*04/10/21 01:57*	*1*
4-Bromofluorobenzene	*85*		*76 - 120*		*04/10/21 01:57*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 124*		*04/10/21 01:57*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*04/10/21 01:57*	*1*

Client Sample ID: MW-28C-4-6-21
Lab Sample ID: 460-231650-2

Date Collected: 04/06/21 08:15
Matrix: Water
Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/10/21 02:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			04/10/21 02:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/10/21 02:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			04/10/21 02:19	1
1,1-Dichloroethane	**0.26**	**J**	1.0	0.26	ug/L			04/10/21 02:19	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/10/21 02:19	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			04/10/21 02:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			04/10/21 02:19	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			04/10/21 02:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/10/21 02:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/10/21 02:19	1
1,4-Dioxane	50	U	50	28	ug/L			04/10/21 02:19	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/10/21 02:19	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			04/10/21 02:19	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			04/10/21 02:19	1
Acetone	5.0	U	5.0	4.4	ug/L			04/10/21 02:19	1
Benzene	1.0	U	1.0	0.20	ug/L			04/10/21 02:19	1
Bromoform	1.0	U	1.0	0.54	ug/L			04/10/21 02:19	1
Bromomethane	1.0	U	1.0	0.55	ug/L			04/10/21 02:19	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			04/10/21 02:19	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/10/21 02:19	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/10/21 02:19	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			04/10/21 02:19	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			04/10/21 02:19	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/10/21 02:19	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/10/21 02:19	1
Chloromethane	1.0	U	1.0	0.40	ug/L			04/10/21 02:19	1
cis-1,2-Dichloroethene	**0.35**	**J**	1.0	0.22	ug/L			04/10/21 02:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 02:19	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			04/10/21 02:19	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			04/10/21 02:19	1
Dichlorodifluoromethane	**1.2**		1.0	0.31	ug/L			04/10/21 02:19	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/10/21 02:19	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			04/10/21 02:19	1

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

Client Sample ID: MW-28C-4-6-21
Lab Sample ID: 460-231650-2
Date Collected: 04/06/21 08:15
Matrix: Water
Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			04/10/21 02:19	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			04/10/21 02:19	1
Methyl tert-butyl ether	**6.0**		1.0	0.22	ug/L			04/10/21 02:19	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			04/10/21 02:19	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/10/21 02:19	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			04/10/21 02:19	1
o-Xylene	1.0	U	1.0	0.36	ug/L			04/10/21 02:19	1
Styrene	1.0	U	1.0	0.42	ug/L			04/10/21 02:19	1
Tetrachloroethene	**63**		1.0	0.25	ug/L			04/10/21 02:19	1
Toluene	1.0	U	1.0	0.38	ug/L			04/10/21 02:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/10/21 02:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 02:19	1
Trichloroethene	**1.1**		1.0	0.31	ug/L			04/10/21 02:19	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			04/10/21 02:19	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/10/21 02:19	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/10/21 02:19	1
1,2-Dichlorobenzene	**0.66**	**J**	1.0	0.21	ug/L			04/10/21 02:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			04/10/21 02:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*04/10/21 02:19*	*1*
4-Bromofluorobenzene	*88*		*76 - 120*		*04/10/21 02:19*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 124*		*04/10/21 02:19*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*04/10/21 02:19*	*1*

Client Sample ID: MW-28D-4-6-21
Lab Sample ID: 460-231650-3
Date Collected: 04/06/21 08:30
Matrix: Water
Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.39**	**J**	1.0	0.24	ug/L			04/10/21 02:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			04/10/21 02:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/10/21 02:42	1
1,1,2-Trichloroethane	**0.60**	**J**	1.0	0.20	ug/L			04/10/21 02:42	1
1,1-Dichloroethane	**1.4**		1.0	0.26	ug/L			04/10/21 02:42	1
1,1-Dichloroethene	**0.95**	**J**	1.0	0.26	ug/L			04/10/21 02:42	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			04/10/21 02:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			04/10/21 02:42	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			04/10/21 02:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/10/21 02:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/10/21 02:42	1
1,4-Dioxane	50	U	50	28	ug/L			04/10/21 02:42	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/10/21 02:42	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			04/10/21 02:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			04/10/21 02:42	1
Acetone	**8.1**		5.0	4.4	ug/L			04/10/21 02:42	1
Benzene	1.0	U	1.0	0.20	ug/L			04/10/21 02:42	1
Bromoform	1.0	U	1.0	0.54	ug/L			04/10/21 02:42	1
Bromomethane	1.0	U	1.0	0.55	ug/L			04/10/21 02:42	1

Client Sample ID: MW-28D-4-6-21
Lab Sample ID: 460-231650-3

Date Collected: 04/06/21 08:30
Matrix: Water
Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.82	ug/L			04/10/21 02:42	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/10/21 02:42	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/10/21 02:42	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			04/10/21 02:42	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			04/10/21 02:42	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/10/21 02:42	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/10/21 02:42	1
Chloromethane	1.0	U	1.0	0.40	ug/L			04/10/21 02:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/10/21 02:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 02:42	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			04/10/21 02:42	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			04/10/21 02:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			04/10/21 02:42	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/10/21 02:42	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			04/10/21 02:42	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			04/10/21 02:42	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			04/10/21 02:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			04/10/21 02:42	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			04/10/21 02:42	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/10/21 02:42	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			04/10/21 02:42	1
o-Xylene	1.0	U	1.0	0.36	ug/L			04/10/21 02:42	1
Styrene	1.0	U	1.0	0.42	ug/L			04/10/21 02:42	1
Tetrachloroethene	**40**		1.0	0.25	ug/L			04/10/21 02:42	1
Toluene	1.0	U	1.0	0.38	ug/L			04/10/21 02:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/10/21 02:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 02:42	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			04/10/21 02:42	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			04/10/21 02:42	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/10/21 02:42	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/10/21 02:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/10/21 02:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			04/10/21 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 123*		*04/10/21 02:42*	*1*
4-Bromofluorobenzene	*92*		*76 - 120*		*04/10/21 02:42*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*04/10/21 02:42*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*04/10/21 02:42*	*1*

Client Sample ID: DUP-4-6-21
Lab Sample ID: 460-231650-4

Date Collected: 04/06/21 00:00
Matrix: Water
Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/10/21 03:04	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			04/10/21 03:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/10/21 03:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			04/10/21 03:04	1

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

Client Sample ID: DUP-4-6-21
Lab Sample ID: 460-231650-4
Date Collected: 04/06/21 00:00
Matrix: Water
Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	**2.0**		1.0	0.26	ug/L			04/10/21 03:04	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/10/21 03:04	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			04/10/21 03:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			04/10/21 03:04	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			04/10/21 03:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/10/21 03:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/10/21 03:04	1
1,4-Dioxane	50	U	50	28	ug/L			04/10/21 03:04	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/10/21 03:04	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			04/10/21 03:04	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			04/10/21 03:04	1
Acetone	**5.1**		5.0	4.4	ug/L			04/10/21 03:04	1
Benzene	1.0	U	1.0	0.20	ug/L			04/10/21 03:04	1
Bromoform	1.0	U	1.0	0.54	ug/L			04/10/21 03:04	1
Bromomethane	1.0	U	1.0	0.55	ug/L			04/10/21 03:04	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			04/10/21 03:04	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/10/21 03:04	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/10/21 03:04	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			04/10/21 03:04	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			04/10/21 03:04	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/10/21 03:04	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/10/21 03:04	1
Chloromethane	1.0	U	1.0	0.40	ug/L			04/10/21 03:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/10/21 03:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 03:04	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			04/10/21 03:04	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			04/10/21 03:04	1
Dichlorodifluoromethane	**2.3**		1.0	0.31	ug/L			04/10/21 03:04	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/10/21 03:04	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			04/10/21 03:04	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			04/10/21 03:04	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			04/10/21 03:04	1
Methyl tert-butyl ether	**41**		1.0	0.22	ug/L			04/10/21 03:04	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			04/10/21 03:04	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/10/21 03:04	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			04/10/21 03:04	1
o-Xylene	1.0	U	1.0	0.36	ug/L			04/10/21 03:04	1
Styrene	1.0	U	1.0	0.42	ug/L			04/10/21 03:04	1
Tetrachloroethene	**9.8**		1.0	0.25	ug/L			04/10/21 03:04	1
Toluene	1.0	U	1.0	0.38	ug/L			04/10/21 03:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/10/21 03:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 03:04	1
Trichloroethene	**0.38**	**J**	1.0	0.31	ug/L			04/10/21 03:04	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			04/10/21 03:04	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/10/21 03:04	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/10/21 03:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/10/21 03:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			04/10/21 03:04	1

Client Sample ID: DUP-4-6-21
Lab Sample ID: 460-231650-4
Date Collected: 04/06/21 00:00
Matrix: Water
Date Received: 04/08/21 10:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 123		04/10/21 03:04	1
4-Bromofluorobenzene	81		76 - 120		04/10/21 03:04	1
Dibromofluoromethane (Surr)	89		77 - 124		04/10/21 03:04	1
Toluene-d8 (Surr)	90		80 - 120		04/10/21 03:04	1

Client Sample ID: TB-4-6-21
Lab Sample ID: 460-231650-5
Date Collected: 04/06/21 00:00
Matrix: Water
Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			04/10/21 01:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			04/10/21 01:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/10/21 01:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			04/10/21 01:34	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			04/10/21 01:34	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/10/21 01:34	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			04/10/21 01:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			04/10/21 01:34	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			04/10/21 01:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/10/21 01:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/10/21 01:34	1
1,4-Dioxane	50	U	50	28	ug/L			04/10/21 01:34	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/10/21 01:34	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			04/10/21 01:34	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			04/10/21 01:34	1
Acetone	5.0	U	5.0	4.4	ug/L			04/10/21 01:34	1
Benzene	1.0	U	1.0	0.20	ug/L			04/10/21 01:34	1
Bromoform	1.0	U	1.0	0.54	ug/L			04/10/21 01:34	1
Bromomethane	1.0	U	1.0	0.55	ug/L			04/10/21 01:34	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			04/10/21 01:34	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/10/21 01:34	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/10/21 01:34	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			04/10/21 01:34	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			04/10/21 01:34	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/10/21 01:34	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/10/21 01:34	1
Chloromethane	1.0	U	1.0	0.40	ug/L			04/10/21 01:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/10/21 01:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 01:34	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			04/10/21 01:34	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			04/10/21 01:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			04/10/21 01:34	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/10/21 01:34	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			04/10/21 01:34	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			04/10/21 01:34	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			04/10/21 01:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			04/10/21 01:34	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			04/10/21 01:34	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/10/21 01:34	1

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

Client Sample ID: TB-4-6-21
Lab Sample ID: 460-231650-5
Date Collected: 04/06/21 00:00
Matrix: Water
Date Received: 04/08/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			04/10/21 01:34	1
o-Xylene	1.0	U	1.0	0.36	ug/L			04/10/21 01:34	1
Styrene	1.0	U	1.0	0.42	ug/L			04/10/21 01:34	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			04/10/21 01:34	1
Toluene	1.0	U	1.0	0.38	ug/L			04/10/21 01:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/10/21 01:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/10/21 01:34	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			04/10/21 01:34	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			04/10/21 01:34	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/10/21 01:34	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/10/21 01:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/10/21 01:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			04/10/21 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 123*		*04/10/21 01:34*	*1*
4-Bromofluorobenzene	*89*		*76 - 120*		*04/10/21 01:34*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 124*		*04/10/21 01:34*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*04/10/21 01:34*	*1*

Surrogate Summary

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

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

Matrix: Water
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-123)	(76-120)	(77-124)	(80-120)
460-231650-1	EW-4-6-21	95	85	95	94
460-231650-2	MW-28C-4-6-21	99	88	95	96
460-231650-3	MW-28D-4-6-21	99	92	99	100
460-231650-4	DUP-4-6-21	91	81	89	90
460-231650-5	TB-4-6-21	96	89	96	98
LCS 460-770518/4	Lab Control Sample	95	86	95	96
LCSD 460-770518/5	Lab Control Sample Dup	91	77	90	90
MB 460-770518/10	Method Blank	91	81	91	92

Surrogate Legend

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

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

Lab Sample ID: MB 460-770518/10
Matrix: Water
Analysis Batch: 770518

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	1.0	U	1.0	0.24	ug/L			04/09/21 21:00	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			04/09/21 21:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/09/21 21:00	1
1,1,2-Trichloroethane	1.0	U	1.0	0.20	ug/L			04/09/21 21:00	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			04/09/21 21:00	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			04/09/21 21:00	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			04/09/21 21:00	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			04/09/21 21:00	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			04/09/21 21:00	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			04/09/21 21:00	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			04/09/21 21:00	1
1,4-Dioxane	50	U	50	28	ug/L			04/09/21 21:00	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			04/09/21 21:00	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			04/09/21 21:00	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			04/09/21 21:00	1
Acetone	5.0	U	5.0	4.4	ug/L			04/09/21 21:00	1
Benzene	1.0	U	1.0	0.20	ug/L			04/09/21 21:00	1
Bromoform	1.0	U	1.0	0.54	ug/L			04/09/21 21:00	1
Bromomethane	1.0	U	1.0	0.55	ug/L			04/09/21 21:00	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			04/09/21 21:00	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			04/09/21 21:00	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			04/09/21 21:00	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			04/09/21 21:00	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			04/09/21 21:00	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/09/21 21:00	1
Chloroform	1.0	U	1.0	0.33	ug/L			04/09/21 21:00	1
Chloromethane	1.0	U	1.0	0.40	ug/L			04/09/21 21:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			04/09/21 21:00	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/09/21 21:00	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			04/09/21 21:00	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			04/09/21 21:00	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			04/09/21 21:00	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			04/09/21 21:00	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			04/09/21 21:00	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			04/09/21 21:00	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			04/09/21 21:00	1
Methyl tert-butyl ether	1.0	U	1.0	0.22	ug/L			04/09/21 21:00	1
Methylcyclohexane	1.0	U	1.0	0.71	ug/L			04/09/21 21:00	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			04/09/21 21:00	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			04/09/21 21:00	1
o-Xylene	1.0	U	1.0	0.36	ug/L			04/09/21 21:00	1
Styrene	1.0	U	1.0	0.42	ug/L			04/09/21 21:00	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			04/09/21 21:00	1
Toluene	1.0	U	1.0	0.38	ug/L			04/09/21 21:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			04/09/21 21:00	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			04/09/21 21:00	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			04/09/21 21:00	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			04/09/21 21:00	1

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

Lab Sample ID: MB 460-770518/10
Matrix: Water
Analysis Batch: 770518

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.17	ug/L			04/09/21 21:00	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			04/09/21 21:00	1
1,2-Dichlorobenzene	1.0	U	1.0	0.21	ug/L			04/09/21 21:00	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			04/09/21 21:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 123*		*04/09/21 21:00*	*1*
4-Bromofluorobenzene	*81*		*76 - 120*		*04/09/21 21:00*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 124*		*04/09/21 21:00*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*04/09/21 21:00*	*1*

Lab Sample ID: LCS 460-770518/4
Matrix: Water
Analysis Batch: 770518

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	20.0	20.1		ug/L		101	68 - 128
1,1,2,2-Tetrachloroethane	20.0	20.3		ug/L		101	63 - 139
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.1		ug/L		111	59 - 142
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	74 - 125
1,1-Dichloroethane	20.0	21.5		ug/L		107	73 - 130
1,1-Dichloroethene	20.0	20.4		ug/L		102	68 - 133
1,2,3-Trichlorobenzene	20.0	22.7		ug/L		114	53 - 144
1,2,4-Trichlorobenzene	20.0	21.2		ug/L		106	64 - 132
1,2-Dichloropropane	20.0	21.0		ug/L		105	76 - 126
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 121
1,4-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 118
1,4-Dioxane	400	425		ug/L		106	70 - 142
2-Butanone (MEK)	100	93.7		ug/L		94	69 - 128
2-Hexanone	100	95.3		ug/L		95	74 - 127
4-Methyl-2-pentanone (MIBK)	100	98.7		ug/L		99	69 - 128
Acetone	100	100		ug/L		100	61 - 134
Benzene	20.0	20.9		ug/L		105	78 - 126
Bromoform	20.0	18.8		ug/L		94	38 - 144
Bromomethane	20.0	23.8		ug/L		119	43 - 150
Carbon disulfide	20.0	21.3		ug/L		106	64 - 138
Carbon tetrachloride	20.0	19.9		ug/L		99	56 - 131
Chlorobenzene	20.0	20.1		ug/L		101	80 - 119
Chlorobromomethane	20.0	20.0		ug/L		100	73 - 126
Chlorodibromomethane	20.0	18.8		ug/L		94	58 - 130
Chloroethane	20.0	21.7		ug/L		108	50 - 150
Chloroform	20.0	21.2		ug/L		106	78 - 125
Chloromethane	20.0	23.7		ug/L		119	38 - 150
cis-1,2-Dichloroethene	20.0	20.4		ug/L		102	78 - 121
cis-1,3-Dichloropropene	20.0	20.1		ug/L		101	74 - 125
Cyclohexane	20.0	21.9		ug/L		109	67 - 133
Dichlorobromomethane	20.0	19.0		ug/L		95	72 - 121
Dichlorodifluoromethane	20.0	19.4		ug/L		97	31 - 150

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

Lab Sample ID: LCS 460-770518/4
Matrix: Water
Analysis Batch: 770518

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ethylbenzene			20.0	19.8		ug/L		99	78 - 120		
Ethylene Dibromide			20.0	19.4		ug/L		97	69 - 126		
Isopropylbenzene			20.0	20.1		ug/L		100	79 - 125		
Methyl acetate			40.0	42.2		ug/L		105	70 - 127		
Methyl tert-butyl ether			20.0	20.2		ug/L		101	65 - 131		
Methylcyclohexane			20.0	21.8		ug/L		109	60 - 139		
Methylene Chloride			20.0	21.0		ug/L		105	74 - 127		
m-Xylene & p-Xylene			20.0	19.4		ug/L		97	78 - 123		
o-Xylene			20.0	19.6		ug/L		98	78 - 122		
Styrene			20.0	20.7		ug/L		103	75 - 127		
Tetrachloroethene			20.0	18.7		ug/L		93	70 - 127		
Toluene			20.0	20.4		ug/L		102	78 - 119		
trans-1,2-Dichloroethene			20.0	20.5		ug/L		102	74 - 126		
trans-1,3-Dichloropropene			20.0	19.8		ug/L		99	66 - 127		
Trichloroethene			20.0	19.9		ug/L		100	71 - 121		
Trichlorofluoromethane			20.0	21.2		ug/L		106	61 - 140		
Vinyl chloride			20.0	25.4		ug/L		127	61 - 144		
1,2-Dichloroethane			20.0	20.4		ug/L		102	75 - 121		
1,2-Dichlorobenzene			20.0	20.0		ug/L		100	79 - 122		
1,2-Dibromo-3-Chloropropane			20.0	17.7		ug/L		89	41 - 143		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 123*
4-Bromofluorobenzene	*86*		*76 - 120*
Dibromofluoromethane (Surr)	*95*		*77 - 124*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: LCSD 460-770518/5
Matrix: Water
Analysis Batch: 770518

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	19.1		ug/L		96	68 - 128	5	30
1,1,2,2-Tetrachloroethane			20.0	19.6		ug/L		98	63 - 139	4	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	19.9		ug/L		100	59 - 142	10	30
1,1,2-Trichloroethane			20.0	19.5		ug/L		97	74 - 125	2	30
1,1-Dichloroethane			20.0	20.0		ug/L		100	73 - 130	7	30
1,1-Dichloroethene			20.0	19.1		ug/L		96	68 - 133	7	30
1,2,3-Trichlorobenzene			20.0	22.0		ug/L		110	53 - 144	3	30
1,2,4-Trichlorobenzene			20.0	20.3		ug/L		102	64 - 132	4	30
1,2-Dichloropropane			20.0	19.5		ug/L		97	76 - 126	8	30
1,3-Dichlorobenzene			20.0	19.5		ug/L		98	80 - 121	6	30
1,4-Dichlorobenzene			20.0	19.7		ug/L		99	80 - 118	2	30
1,4-Dioxane			400	400		ug/L		100	70 - 142	6	30
2-Butanone (MEK)			100	92.7		ug/L		93	69 - 128	1	30
2-Hexanone			100	93.5		ug/L		93	74 - 127	2	30
4-Methyl-2-pentanone (MIBK)			100	95.0		ug/L		95	69 - 128	4	30
Acetone			100	105		ug/L		105	61 - 134	4	30

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

Lab Sample ID: LCSD 460-770518/5
Matrix: Water
Analysis Batch: 770518

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	19.8		ug/L		99	78 - 126	5	30
Bromoform			20.0	17.5		ug/L		88	38 - 144	7	30
Bromomethane			20.0	22.9		ug/L		115	43 - 150	4	30
Carbon disulfide			20.0	19.8		ug/L		99	64 - 138	7	30
Carbon tetrachloride			20.0	19.0		ug/L		95	56 - 131	5	30
Chlorobenzene			20.0	19.6		ug/L		98	80 - 119	3	30
Chlorobromomethane			20.0	18.5		ug/L		92	73 - 126	8	30
Chlorodibromomethane			20.0	18.3		ug/L		92	58 - 130	2	30
Chloroethane			20.0	20.3		ug/L		101	50 - 150	7	30
Chloroform			20.0	19.3		ug/L		96	78 - 125	9	30
Chloromethane			20.0	23.4		ug/L		117	38 - 150	1	30
cis-1,2-Dichloroethene			20.0	19.0		ug/L		95	78 - 121	7	30
cis-1,3-Dichloropropene			20.0	18.8		ug/L		94	74 - 125	7	30
Cyclohexane			20.0	20.4		ug/L		102	67 - 133	7	30
Dichlorobromomethane			20.0	18.2		ug/L		91	72 - 121	4	30
Dichlorodifluoromethane			20.0	19.1		ug/L		96	31 - 150	1	30
Ethylbenzene			20.0	18.8		ug/L		94	78 - 120	5	30
Ethylene Dibromide			20.0	19.2		ug/L		96	69 - 126	1	30
Isopropylbenzene			20.0	19.1		ug/L		96	79 - 125	5	30
Methyl acetate			40.0	39.9		ug/L		100	70 - 127	5	30
Methyl tert-butyl ether			20.0	19.5		ug/L		97	65 - 131	4	30
Methylcyclohexane			20.0	20.8		ug/L		104	60 - 139	5	30
Methylene Chloride			20.0	19.7		ug/L		99	74 - 127	6	30
m-Xylene & p-Xylene			20.0	18.5		ug/L		92	78 - 123	5	30
o-Xylene			20.0	18.7		ug/L		93	78 - 122	5	30
Styrene			20.0	20.0		ug/L		100	75 - 127	3	30
Tetrachloroethene			20.0	18.0		ug/L		90	70 - 127	3	30
Toluene			20.0	19.3		ug/L		96	78 - 119	6	30
trans-1,2-Dichloroethene			20.0	19.5		ug/L		97	74 - 126	5	30
trans-1,3-Dichloropropene			20.0	18.9		ug/L		94	66 - 127	5	30
Trichloroethene			20.0	19.3		ug/L		96	71 - 121	4	30
Trichlorofluoromethane			20.0	21.4		ug/L		107	61 - 140	1	30
Vinyl chloride			20.0	24.2		ug/L		121	61 - 144	5	30
1,2-Dichloroethane			20.0	19.4		ug/L		97	75 - 121	5	30
1,2-Dichlorobenzene			20.0	19.3		ug/L		96	79 - 122	4	30
1,2-Dibromo-3-Chloropropane			20.0	17.4		ug/L		87	41 - 143	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 123*
4-Bromofluorobenzene	*77*		*76 - 120*
Dibromofluoromethane (Surr)	*90*		*77 - 124*
Toluene-d8 (Surr)	*90*		*80 - 120*

QC Association Summary

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

GC/MS VOA

Analysis Batch: 770518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-231650-1	EW-4-6-21	Total/NA	Water	8260D	
460-231650-2	MW-28C-4-6-21	Total/NA	Water	8260D	
460-231650-3	MW-28D-4-6-21	Total/NA	Water	8260D	
460-231650-4	DUP-4-6-21	Total/NA	Water	8260D	
460-231650-5	TB-4-6-21	Total/NA	Water	8260D	
MB 460-770518/10	Method Blank	Total/NA	Water	8260D	
LCS 460-770518/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-770518/5	Lab Control Sample Dup	Total/NA	Water	8260D	

Lab Chronicle

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

Client Sample ID: EW-4-6-21
Lab Sample ID: 460-231650-1
Date Collected: 04/06/21 07:40
Matrix: Water
Date Received: 04/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	770518	04/10/21 01:57	GXY	TAL EDI

Client Sample ID: MW-28C-4-6-21
Lab Sample ID: 460-231650-2
Date Collected: 04/06/21 08:15
Matrix: Water
Date Received: 04/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	770518	04/10/21 02:19	GXY	TAL EDI

Client Sample ID: MW-28D-4-6-21
Lab Sample ID: 460-231650-3
Date Collected: 04/06/21 08:30
Matrix: Water
Date Received: 04/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	770518	04/10/21 02:42	GXY	TAL EDI

Client Sample ID: DUP-4-6-21
Lab Sample ID: 460-231650-4
Date Collected: 04/06/21 00:00
Matrix: Water
Date Received: 04/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	770518	04/10/21 03:04	GXY	TAL EDI

Client Sample ID: TB-4-6-21
Lab Sample ID: 460-231650-5
Date Collected: 04/06/21 00:00
Matrix: Water
Date Received: 04/08/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	770518	04/10/21 01:34	GXY	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-22
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	12-31-21
Georgia	State	12028 (NJ)	07-01-21
Massachusetts	State	M-NJ312	06-30-21
New Jersey	NELAP	12028	06-30-21
New York	NELAP	11452	04-01-22
Pennsylvania	NELAP	68-00522	02-28-22
Rhode Island	State	LAO00132	12-30-21
USDA	US Federal Programs	P330-20-00244	11-03-23

Method Summary

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

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

Protocol References:

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: New York State D.E.C.
Job ID: 460-231650-1
Project/Site: Farmingdale Plaza Cleaners Site:130107

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-231650-1	EW-4-6-21	Water	04/06/21 07:40	04/08/21 10:00	
460-231650-2	MW-28C-4-6-21	Water	04/06/21 08:15	04/08/21 10:00	
460-231650-3	MW-28D-4-6-21	Water	04/06/21 08:30	04/08/21 10:00	
460-231650-4	DUP-4-6-21	Water	04/06/21 00:00	04/08/21 10:00	
460-231650-5	TB-4-6-21	Water	04/06/21 00:00	04/08/21 10:00	

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Phone: 732-549-3900 Fax: 732-549-3679

Chain of Custody Record

Albany #224

eurofins | Environment Testing America

Client Information	Sampler: Brian Jankauskas	Lab PM: Gilmore, Julie L	Carrier Tracking No(s):	COC No: 460-140027-90650.1
Client Contact: Mr. Brian Jankauskas	Phone: 518-402-9626	E-Mail: Julie.Gilmore@Eurofinset.com	State of Origin:	Page: Page 1 of 1
Company: New York State D.E.C.	PWSID:			Job #: 231650
Address: 625 Broadway 12th Floor	Due Date Requested:			
City: Albany	TAT Requested (days): standard			
State, Zip: NY, 12233-7017	Compliance Project: Δ Yes Δ No			
Phone: 518-402-9626(Tel)	PO #: Callout: 136424; Site: 130107			
Email: brian.jankauskas@dec.ny.gov	WO #: Farmingdale Plaza Cleaners			
Project Name: DEC - FARMINGDALE480 SITE: 130107	Project #: 46009084			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, 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)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260D - Target Compound List for VOCs updated SO	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A		
EW-4-6-21	4-6-21	740		Water			3	3	1
MW-28C-4-6-21	4-6-21	815		Water			3	3	2
MW-28D-4-6-21	4-6-21	830		Water			3	3	3
DUP-4-6-21	4-6-21	—		Water			2	2	4
TB-4-6-21	4-6-21	—		Water			2	2	5

460-231650 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
1	[signature]	4/6/21 1641	NYSDEC	[signature]	4-6-2021 1641	EETA
2	[signature]	4-7-2021 1700	EETA		Date/Time:	Company
3	2nd EX	4/8/21 1000	Company	[signature]	4/8/21 1000	TX Edison

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

Cooler Temperature(s) °C and Other Remarks: 5.2/4.9°C TR#11

Ver: 11/01/2020

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 231650

Number of Coolers: 1 **IR Gun #** 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	5.2 °C	4.9 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

EDS-WI-038, Rev 4.1
10/22/2019

Initials: JO **Date:** 4/8/21

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-231650-1

Login Number: 231650
List Number: 1
Creator: DiGuardia, Joseph L

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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 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.	True	
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	