

GROUNDWATER MONITORING REPORT
July – September 2021
FORMER SPEEDY'S CLEANERS-BRIGHTON SITE
SITE # 828128

WORK ASSIGNMENT NO. D009809-16

Prepared for:

New York State Department of Environmental Conservation
Albany, New York

Prepared by:

MACTEC Engineering and Geology, P.C.
Portland, Maine

MACTEC Project No. 3616206120

JANUARY 2022



engineering and constructing a better tomorrow

January 21, 2022

Mr. Charles T Gregory
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Subject: **Former Speedy's Cleaners-Brighton (Site 828128)**
Quarterly Monitoring Report
July – September 2021 (Q3)

Dear Mr. Gregory:

Under our Work Assignment D009809-16, MACTEC Engineering and Geology, P.C. (MACTEC) is submitting to the New York State Department of Conservation (NYSDEC) this Quarterly Monitoring Report (QMR) for the Former Speedy's Cleaners site (Site) (Site 828128) located in Brighton, Monroe County, New York. This report summarizes the groundwater monitoring and sample collection/analysis undertaken at the Site during the month of October for the reporting period of July through September 2021. The following attachments are included with this report:

- Tables
 - Table 1: Groundwater Analytical Results – Volatile Organic Compounds
 - Table 2: Groundwater Analytical Results – Monitored Natural Attenuation
- Figures
 - Figure 1: Site Location
 - Figure 2: Groundwater Contour Map
 - Figure 3: Groundwater Analytical Concentrations
- Attachment 1 – Category A Review Report

Objectives

The site management plan (SMP) includes groundwater monitoring program objectives to evaluate the current and future extent of chlorinated compound contamination in groundwater following the shutdown of the Groundwater Extraction Treatment System at Carriage Cleaners and post biological injections at Former Speedy’s Cleaners. The evaluation will also include the feasibility of monitored natural attenuation (MNA) to be considered as a long-term remedy for the off-site plume area at Former Speedy’s Cleaners and the potential for contaminant migration from the upgradient Carriage Cleaners Site to identify if these sites should be considered one co-mingled plume.

Groundwater Monitoring, Sampling and Analysis

A round of synoptic water levels of the monitoring wells was completed prior to sampling. Figure 2 presents the groundwater contours and flow direction. The groundwater flows in the easterly direction from the site and is consistent with previous reporting. A comprehensive gauging event is planned for the next round of groundwater sampling to further evaluate groundwater flow direction.

Based off the current Scope of Work, monitoring wells MW-202, MW-203S, MW-204S, MW-205S, MW-206, and MW-212 were sampled by MACTEC on October 25 and 26, 2021, as part of quarterly monitoring well sampling. The table below summarizes groundwater tetrachloroethene (PCE) concentrations in monitoring wells onsite and adjacent to the Site. Historical PCE and trichlorethylene (TCE) concentrations in site monitoring wells are presented in Figure 3. The Category A Review Report is included as Attachment 1.

Groundwater Monitoring Well PCE Concentrations

Date	Groundwater PCE Concentration (µg/L)												
	MW-202	MW-202I	MW-203S	MW-204S	MW-205S	MW-206	MW-206S	MW-210	MW-211	MW-212	MW-213	HA-119	OW-1
January 2016	ND	-	-	-	-	-	-	-	1,300	130	250	-	-
4/25/2016	-	-	-	-	-	-	-	1.1	-	-	-	-	-
11/9/2016	-	-	-	-	-	-	-	160	-	-	-	-	-
5/12/2017	-	-	-	-	-	-	-	7.5	-	-	-	-	-
11/1/2017	-	-	-	-	-	-	-	5.6	-	-	-	-	-
5/2/2018	-	-	-	-	-	-	-	2.6	-	-	-	-	-
11/14/2018	-	-	-	-	-	-	-	3.7	-	-	-	-	-
5/1/2019	-	-	-	-	-	-	-	1.2	-	-	-	-	-

Date	Groundwater PCE Concentration (µg/L)												
	MW-202	MW-2021	MW-203S	MW-204S	MW-205S	MW-206	MW-206S	MW-210	MW-211	MW-212	MW-213	HA-119	OW-1
10/16/2019	-	-	-	-	-	-	-	8	-	-	-	-	-
3/30/2020	-	-	-	-	-	-	-	1.7	-	-	-	-	-
11/12/2020	-	-	-	-	-	-	-	8.7	-	-	-	-	-
3/30/2021*	6.3J	ND	-	18	0.071J	-	ND	16	2,100	3,500	53	2U	150
8/17/2021	4.8J	-	0.48J	15	ND	ND	-	-	-	1,900	-	-	-
10/25/2021**	11	-	0.06J	17	0.096J+	ND	-	-	-	2,500	-	-	-

Notes:

- - indicates not sampled
- ND – non-detect
- *Sample for well OW-1 was collected on 3/29/2021; Samples for MW-204S, MW-206S, MW-211 were collected on 3/31/2021; Samples for MW-202, MW-2011, MW-210, MW-212 and MW-213 were collected on 4/1/2021
- ** Samples for MW-203S and MW-205S were collected on 10/26/2021
- Qualifiers: U = not detected; J = result is estimated; J+ = estimated biased high during data validation

Generally, PCE and TCE concentrations increased since the last quarterly sampling in August 2021. A further increase in cis-1,2-dichloroethene (cis-DCE) is seen in monitoring wells MW-202 and MW-212 and an increase in vinyl chloride (VC) is seen in monitoring well MW-202, indicating continued reductive dechlorination is occurring in the areas of these wells in the groundwater as compared to the August 2021 groundwater analytical results.

Conclusions, Recommendations, and Updates

MACTEC recommends continuing the planned quarterly monitoring to further evaluate the site for natural attenuation or the need for additional in-situ biological amendment. The next quarterly sampling activities will be conducted during the October through December 2021 period and will be reported in a corresponding Monthly Report.

Please let us know if you have any questions on the material provided in this report.

Sincerely,

MACTEC Engineering and Geology, P.C.

Kevin McKeever, P.E., P.G.
 Principle Engineer

Jean Firth, P.G.
 Program Manager

Enclosures (3)

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

µg/L	microgram(s) per liter
cis-DCE	cis-1,2-dichloroethene
MACTEC	MACTEC Engineering and Consulting, P.C.
NYSDEC	New York State Department of Environmental Conservation
PCE	tetrachloroethene
QMR	Quarterly Monitoring Report
Site	Former Speedy’s Cleaners site
SMP	Site Management Plan
TCE	trichloroethylene
VC	vinyl chloride
VOC	volatile organic compound

TABLES

Table 1: Groundwater Analytical Results - Volatile Organic Compounds

Parameter	Location		HA-119	MW-202	MW-202	MW-202	MW-2021	MW-203S	MW-203S	MW-204S	MW-204S	MW-204S	MW-205S	MW-205S	MW-205S													
	Sample Date	Sample ID	3/30/2021	4/1/2021	8/17/2021	10/25/2021	4/1/2021	8/17/2021	10/26/2021	3/31/2021	8/17/2021	10/25/2021	3/30/2021	3/30/2021	8/17/2021													
	Qc Code	Qc Code	828128HA119013	828128MW202012	828128MW20213	828128MW20213	828128MW2021047	828128MW203S12	828128MW203S12	828128MW204S014	828128MW204S13	828128MW204S13	828128MW205S013	828128MW205S013D	828128MW205S13													
	GA	GV	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FD	FS													
			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier												
Volatile Organic Compounds (ug/L)																												
Benzene	1	NS	2	U	10	U	10	U	10	U	1	U	1.8		1.6		1	U	1.4		0.9	J	1	U	1	U	1	U
Chloroform	7	NS	2	U	10	U	10	U	10	U	1	U	18		12		1	U	1	U	1	U	1	U	1	U	1	U
cis-1,2-Dichloroethene	5	NS	91		360		760		890		1	U	23		19		2.1		17		9.9		1.4	J+	1.4	J+	1	U
Methyl Tertbutyl Ether	NS	10	0.83	J	10	U	10	U	10	U	1	U	9.9		12		0.19	J	0.76	J	1	U	1	U	1	U	1	U
Tetrachloroethene	5	NS	2	U	6.3	J	4.8	J	11		1	U	0.48	J	0.6	J	18		15		17		0.71	J	0.63	J	1	U
Trichloroethene	5	NS	2	U	10	U	10	U	9.5	J	1	U	1	U	1	U	1.3		1.3		1.4		1	U	1	U	1	U
Vinyl chloride	2	NS	33		130		370		400		1	U	74		75		0.92	J	32		16		1	U	1	U	1	U

Parameter	Location		MW-205S	MW-205S	MW-205S	MW-206S	MW-206	MW-210	MW-211	MW-212	MW-212	MW-212	MW-212	MW-213	OW-1											
	Sample Date	Sample ID	8/17/2021	10/26/2021	10/26/2021	3/31/2021	8/17/2021	4/1/2021	3/31/2021	4/1/2021	8/17/2021	10/25/2021	4/1/2021	3/29/2021												
	Qc Code	Qc Code	828128MW205S13D	828128MW205S13	828128MW205S13D	828128MW206S010	828128MW20617	828128MW210015	828128MW211012	828128MW212010	828128MW21209	828128MW21209	828128MW213010	828128OW001026												
	GA	GV	FD	FS	FD	FS	FS	FS	FS	FS	FS	FS	FS	FS												
			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier										
Volatile Organic Compounds (ug/L)																										
Benzene	1	NS	1	U	1	U	1	U	1	U	50	U	100	U	40	U	80	U	10	U	10	U	10	U	4	U
Chloroform	7	NS	1	U	1	U	1	U	1	U	50	U	100	U	40	U	80	U	10	U	10	U	10	U	4	U
cis-1,2-Dichloroethene	5	NS	1	U	2.8		2.5		1	U	1	U	3.8		810		1900		2100		3500		650		13	
Methyl Tertbutyl Ether	NS	10	1	U	1	U	1	U	1	U	50	U	100	U	40	U	80	U	10	U	10	U	10	U	4	U
Tetrachloroethene	5	NS	1	U	0.96	J+	0.92	J+	1	U	1	U	16		2100		3500		1900		2500		53		150	
Trichloroethene	5	NS	1	U	0.81	J+	0.65	J+	1	U	1	U	2.6		320		1000		640		830		10	U	9	
Vinyl chloride	2	NS	1	U	1	U	1	U	1	U	80		200		200		1600		420		550		4	U	4	U

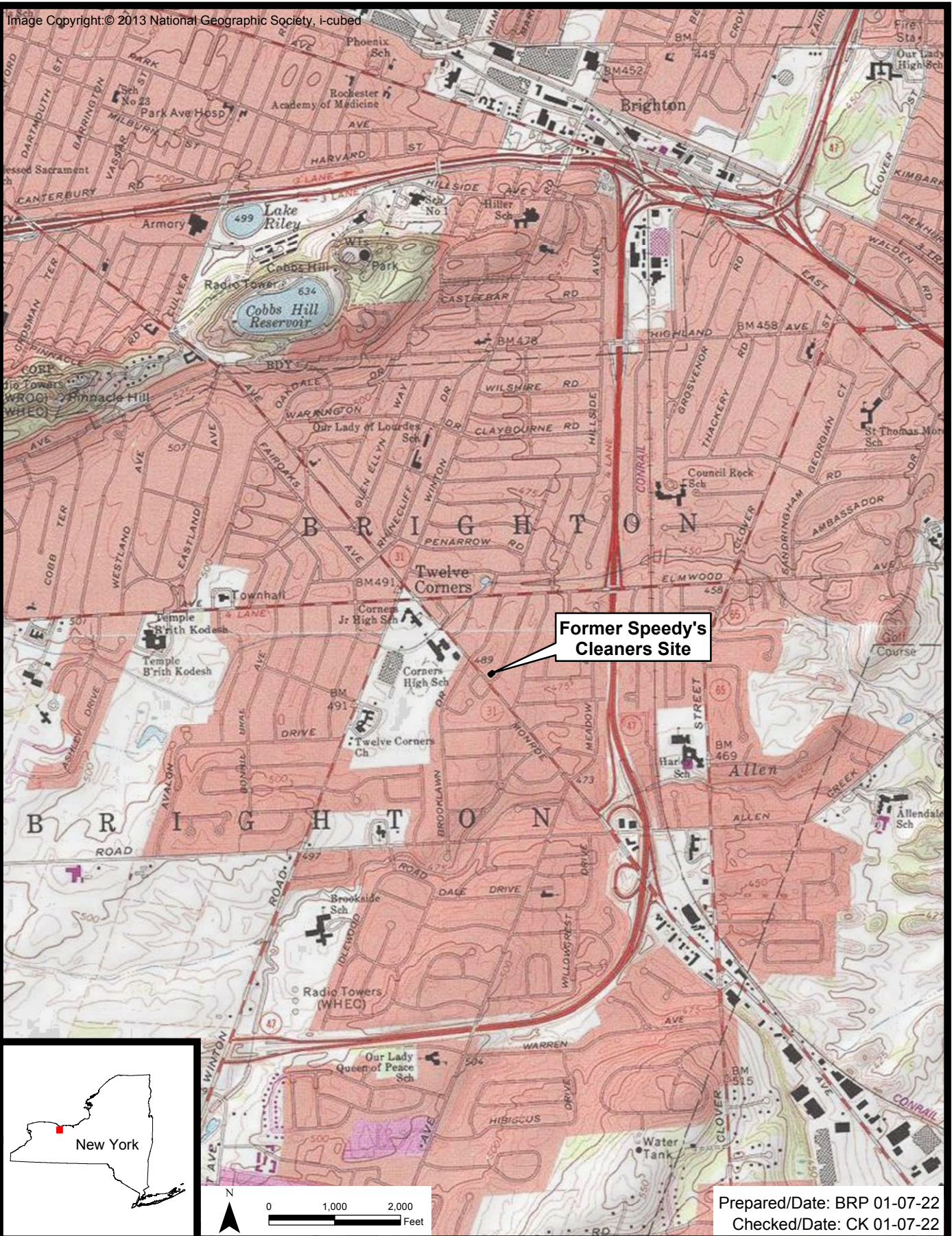
Notes:
 Units: ng/L = nanograms per liter; ug/L = micrograms per liter; mg/L = milligrams per liter
 NS = no standard
 GA = New York State Class GA Groundwater Standards
 GV = New York State Guidance Values
 QC Codes: FS = field sample; FD = field duplicate
 Qualifiers: U = not detected; J = result is estimated; J+ = estimated biased high during data validation

Table 2: Groundwater Analytical Results - Monitored Natural Attenuations

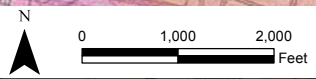
Parameter	Location		HA-119	MW-202	MW-202	MW-202	MW-204S	MW-204S	MW-204S	MW-206S	MW-206	MW-206	MW-210	MW-211	MW-212	MW-212	MW-212	OW-1		
	Sample Date	Sample ID	3/30/2021	4/1/2021	8/17/2021	10/25/2021	3/31/2021	8/17/2021	10/25/2021	3/31/2021	8/17/2021	10/25/2021	4/1/2021	3/31/2021	4/1/2021	8/17/2021	10/25/2021	3/29/2021		
	Qc Code	GA	GV	828128HA119013	828128MW202012	828128MW20213	828128MW20213	828128MW204S014	828128MW204S13	828128MW204S13	828128MW206S010	828128MW20617	828128MW20617	828128MW210015	828128MW211012	828128MW212010	828128MW21209	828128MW21209	828128OW001026	
			Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Total Metals (mg/L)																				
Iron	0.3	NS			1.8	B	1.3		0.064	B	0.019	J					3.8	B	2.4	
Manganese	0.3	NS	0.099		0.12		0.1	B	0.098		0.0047		0.021	B	0.0097		0.13		1	U
Dissolved Metals (mg/L)																				
Iron	0.3	NS			0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Manganese	0.3	NS			0.098	B	0.096		0.0025	J	0.0077	J	0.13		0.37	B	0.22			
Iron Complex (mg/L)																				
Iron, Ferric	NS	NS	0.59	J	1.9	J			0.2	J			1.7	J	1	U	2.5	J	1.9	J
Dissolved Gases (ug/L)																				
Methane	NS	NS	4	U	2.4	J	2.8	J	2.9	J	4	U	4	U	4	U	1.3	J	4	U
Ethene	NS	NS	7	U	7	U	7	U	7	U	7	U	7	U	7	U	7	U	7	U
Inorganics & Wet Chemistry (mg/L)																				
Alkalinity, Total	NS	NS	381		405				355				434		435		404		408	
Chloride	250	NS	112		283				290				137		131		224		254	
Nitrate as N	10	NS	0.05	U	0.05	U	1.4		1.4		0.05	U	0.05	U	0.05	U	0.05	U	0.05	U
Sulfate	250	NS	77.7		72.1		83.9		84.6		38.6		63.4		52.8		74.9		78.2	
Total Organic Carbon	NS	NS	2.1		1.8		1.4		2		1.2		1.1		1.5		2.4		2	

Notes:
 Units: ng/L = nanograms per liter; ug/L = micrograms per liter; mg/L = milligrams per liter
 NS = no standard
 GA = New York State Class GA Groundwater Standards
 GV = New York State Guidance Values
 QC Codes: FS = field sample; FD = field duplicate
 Qualifiers: U = not detected; J = result is estimated; J+ = estimated biased high during data validation

FIGURES



**Former Speedy's
Cleaners Site**



Prepared/Date: BRP 01-07-22
Checked/Date: CK 01-07-22

**Former Speedy's Cleaners
(hw828128); D009809-16
Brighton, New York**



Site Location
Project 3616206120 Figure 1

Document: P:\Projects\NYSDEC_General\NYSDEC_Information\D009809\Database\GIS\Speedys_Cleaners\GISMap_Documents\Speedys_Site_Location.mxd
 PDF: P:\Projects\NYSDEC_General\NYSDEC_Information\D009809\Database\GIS\Speedys_Cleaners\GIS\Figures\Quarterly_Monitoring_Reports\Figure_1_Site_Location.pdf 01-07-2022 9:23 AM brian.peters

Image Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



Legend

- Monitoring Well
- Groundwater Contour October 2021 (dashed where inferred)
- Groundwater Flow Direction
- Former Speedy's Cleaners Building
- Carriage Cleaners Building

0 75 150 Feet

Former Speedy's Cleaners (hw828128); D009809-16
Brighton, New York



Prepared/Date: BRP 01-19-22
Checked/Date: CK 01-19-22
Groundwater Contours October 2021
Project 3616206120
Figure 2

Image Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



MW-203S	
PCE	0.6J
TCE	1U
DCE	19
VC	75

MW-204S	
PCE	17
TCE	1.4
DCE	9.9
VC	16

MW-202	
PCE	11
TCE	9.5J
DCE	890
VC	400

MW-205S	
PCE	0.96J+
TCE	0.81J+
DCE	2.8
VC	1U

MW-212	
PCE	2500
TCE	830
DCE	3500
VC	420

MW-206	
PCE	1U
TCE	1U
DCE	1U
VC	1U

Legend

- Monitoring Well
- Former Speedy's Cleaners Building
- Carriage Cleaners Building

Notes:
 All results in ug/L
 Samples collected 10/25/2021 except for MW-203S and MW-205S collected 10/26/2021
Qualifiers
 U = not detected
 J = result is estimated
 J+ = estimated biased high during data validation

0 75 150 Feet

Prepared/Date: BRP 01-19-22
 Checked/Date: CK 01-19-22

Former Speedy's Cleaners (hw828128); D009809-16
 Brighton, New York



Groundwater Analytical Concentrations
 October 2021
 Project 3616206120
 Figure 3

ATTACHMENT 1

Category A Review Report

**CATEGORY A REVIEW REPORT
OCTOBER 2021 GROUNDWATER SAMPLING
FORMER SPEEDY'S CLEANERS SITE
BRIGHTON, NEW YORK**

1.0 INTRODUCTION

Groundwater samples were collected in October 2021 at the Former Speedy's Cleaners Site in Brighton, New York, and shipped to TestAmerica Buffalo Laboratory (TAL) located in Amherst, New York, for analysis. Samples included in the Category A Review were analyzed by the following United States Environmental Protection Agency (USEPA) method:

- Volatile Organic Compounds (VOCs) by Method 8260C

A completeness check was performed for additional sample analyses for total and dissolved iron and manganese, sulfate, ethene, ethane, methane, and total organic carbon. Results were reported in the following sample delivery group (SDG):

- 480-191499-1

Sample event information included in this chemistry review is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A Review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

- U = target analyte is not detected at or above the reporting limit
- J = concentration is estimated
- J+ = concentration is estimated, potentially biased high

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review the data meet the data quality objectives; however, the following potential limitations were identified:

VOCs by 8260C

Results for tetrachloroethene and trichloroethene in sample 828128MW205S013 and associated field duplicate 828128MW205S013D were qualified estimated with potential high bias (J+) based on high recoveries in the associated MS. Percent recoveries for the majority of VOCs in the MS were biased high (>130) while MSD recoveries were all within the 70-130 control limits. Relative percent differences (RPDs) between MS and MSD recoveries were above the QC limit of 20 for the majority of VOCs including tetrachloroethene and trichloroethene. Qualified results for tetrachloroethene and trichloroethene are included in Table 3 with reason codes MSH and MSRPD. However, it is also noted that based on good agreement between concentrations for VOCs detected in the sample and field duplicate, as well as the consistently high bias associated with all VOCs in the MS, the high MS recoveries may be due to a potential spiking error.

Reporting limits in a subset of samples are elevated due to dilutions as indicated in Table 2. The lab narrative stated dilutions were required to bring the concentration of target analytes within calibration range.

Reference:

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

Data Validator: Gabrielle Davis



Date: 11/19/21

Reviewed by: Julie Ricardi



Date: 12/27/21

Standard Table Notes:

Sample Type (QC Code)

FS – field sample
FD – field duplicate
TB – trip blank
EB – equipment blank
FB – field blank

Matrix

GW – ground water
BW – blank water
TW – tap water
SV – soil vapor
SED - sediment

Units

mg/L – milligrams per liter
ng/L – nanograms per liter
µg/L – micrograms per liter
mg/kg – milligrams per kilogram
µg/kg – micrograms per kilogram
µg/m³ – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit
J – estimated quantity
J+ - estimated quantity, biased high
J- - estimated quantity, biased low
R – data unusable

Fraction

T – total
D – dissolved
N – normal

Qualification Reason Codes

BL1 – method blank qualifier
BL2 – field or trip blank qualifier
CCV – continuing calibration verification recovery outside limits
CCV%D – continuing calibration verification percent difference exceeds goal
CCVRRF – continuing calibration relative response factor low
CI – chromatographic interference present
DCPD – dual column percent difference exceeds limit
E – result exceeds calibration range
FD – field duplicate precision goal exceeded
FP – false positive interference
HT – holding time for prep or analysis exceeded
HTG – holding time for prep or analysis grossly exceeded
ICV – initial calibration verification recovery outside limit
ICVRRF – initial calibration verification relative response factor low
ICVRS D – initial calibration verification % relative standard deviation exceeds goal
ISH – internal standard response greater than limit
ISL – internal standard response less than limit
LCSH – laboratory control sample recovery high
LCSL – laboratory control sample recovery low
LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded
LD – lab duplicate precision goal exceeded
MSH – matrix spike and/or MS duplicate recovery high
MSL – matrix spike and/or MS duplicate recovery low
MSRPD – matrix spike/duplicate relative % difference precision goal exceeded
N – analyte identification is not certain
PEM – performance evaluation mixture exceeds limit
PM – sample percent moisture exceeds EPA guideline
SD – serial dilution result exceeds percent difference limit
SP – sample preservation/collection does not meet method requirement
SSH – surrogate recovery high
SSL – surrogate recovery low
TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS
 CATEGORY A REVIEW REPORT
 OCTOBER 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

Lab	SDG	Location	Field Sample Id	Field Sample Date	Media	Method Class Analysis Method Fraction	Qc Code	Sulfate	Diss. Gases	Metals	Metals	VOCs	TOC
								D516 N	RSK175 N	SW6010C D	SW6010C T	SW8260C N	SW9060 T
							Parameters	Parameters	Parameters	Parameters	Parameters	Parameters	
480-191499-1	MW-202	828128MW20213	10/25/2021	GW	FS			1	3	2	2	48	1
480-191499-1	MW-203S	828128MW203S12	10/26/2021	GW	FS							48	
480-191499-1	MW-204S	828128MW204S13	10/25/2021	GW	FS			1	3	2	2	48	1
480-191499-1	MW-205S	828128MW205S13	10/26/2021	GW	FS							48	
480-191499-1	MW-205S	828128MW205S13D	10/26/2021	GW	FD							48	
480-191499-1	MW-206	828128MW20617	10/25/2021	GW	FS			1	3	2	2	48	1
480-191499-1	MW-212	828128MW21209	10/25/2021	GW	FS			1	3	2	2	48	1
480-191499-1	QC	TRIP BLANK	10/26/2021	BW	TB							48	

Notes:

VOCs = Volatile Organic Compounds

TOC = Total Organic Carbon

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
OCTOBER 2021 GROUNDWATER SAMPLING
FORMER SPEEDY'S CLEANERS SITE
BRIGHTON, NEW YORK

			SDG	480-191499-1	480-191499-1	480-191499-1	480-191499-1		
			Location	MW-202	MW-203S	MW-204S	MW-205S		
			Sample Date	10/25/2021 12:50	10/26/2021 11:35	10/25/2021 15:40	10/26/2021 10:30		
			Sample ID	828128MW20213	828128MW203S12	828128MW204S13	828128MW205S13		
			Qc Code	FS	FS	FS	FS		
Fraction	Method	Parameter	Units	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
N	SW8260C	1,1,1-Trichloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,1,2,2-Tetrachloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	10	U	1	U	1	U
N	SW8260C	1,1,2-Trichloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,1-Dichloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,1-Dichloroethene	ug/l	10	U	1	U	1	U
N	SW8260C	1,2,4-Trichlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dibromo-3-chloropropane	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dibromoethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dichlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dichloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	1,2-Dichloropropane	ug/l	10	U	1	U	1	U
N	SW8260C	1,3-Dichlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	1,4-Dichlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	2-Butanone	ug/l	100	U	10	U	10	U
N	SW8260C	2-Hexanone	ug/l	50	U	5	U	5	U
N	SW8260C	4-Methyl-2-pentanone	ug/l	50	U	5	U	5	U
N	SW8260C	Acetic acid, methyl ester	ug/l	25	U	2.5	U	2.5	U
N	SW8260C	Acetone	ug/l	100	U	10	U	10	U
N	SW8260C	Benzene	ug/l	10	U	1.6		0.9	J
N	SW8260C	Bromodichloromethane	ug/l	10	U	1	U	1	U
N	SW8260C	Bromoform	ug/l	10	U	1	U	1	U
N	SW8260C	Bromomethane	ug/l	10	U	1	U	1	U
N	SW8260C	Carbon disulfide	ug/l	10	U	1	U	1	U
N	SW8260C	Carbon tetrachloride	ug/l	10	U	1	U	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
CATEGORY A REVIEW REPORT
OCTOBER 2021 GROUNDWATER SAMPLING
FORMER SPEEDY'S CLEANERS SITE
BRIGHTON, NEW YORK

			SDG	480-191499-1	480-191499-1	480-191499-1	480-191499-1		
			Location	MW-202	MW-203S	MW-204S	MW-205S		
			Sample Date	10/25/2021 12:50	10/26/2021 11:35	10/25/2021 15:40	10/26/2021 10:30		
			Sample ID	828128MW20213	828128MW203S12	828128MW204S13	828128MW205S13		
			Qc Code	FS	FS	FS	FS		
Fraction	Method	Parameter	Units	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
N	SW8260C	Chlorobenzene	ug/l	10	U	1	U	1	U
N	SW8260C	Chloroethane	ug/l	10	U	1	U	1	U
N	SW8260C	Chloroform	ug/l	10	U	12		1	U
N	SW8260C	Chloromethane	ug/l	10	U	1	U	1	U
N	SW8260C	cis-1,2-Dichloroethene	ug/l	890		19		9.9	
N	SW8260C	cis-1,3-Dichloropropene	ug/l	10	U	1	U	1	U
N	SW8260C	Cyclohexane	ug/l	10	U	1	U	1	U
N	SW8260C	Dibromochloromethane	ug/l	10	U	1	U	1	U
N	SW8260C	Dichlorodifluoromethane	ug/l	10	U	1	U	1	U
N	SW8260C	Ethylbenzene	ug/l	10	U	1	U	1	U
N	SW8260C	Isopropylbenzene	ug/l	10	U	1	U	1	U
N	SW8260C	Methyl cyclohexane	ug/l	10	U	1	U	1	U
N	SW8260C	Methyl Tertbutyl Ether	ug/l	10	U	12		1	U
N	SW8260C	Methylene chloride	ug/l	10	U	1	U	1	U
N	SW8260C	Styrene	ug/l	10	U	1	U	1	U
N	SW8260C	Tetrachloroethene	ug/l	11		0.6	J	17	
N	SW8260C	Toluene	ug/l	10	U	1	U	1	U
N	SW8260C	trans-1,2-Dichloroethene	ug/l	10	U	1	U	1	U
N	SW8260C	trans-1,3-Dichloropropene	ug/l	10	U	1	U	1	U
N	SW8260C	Trichloroethene	ug/l	9.5	J	1	U	1.4	
N	SW8260C	Trichlorofluoromethane	ug/l	10	U	1	U	1	U
N	SW8260C	Vinyl chloride	ug/l	400		75		16	
N	SW8260C	Xylenes, Total	ug/l	20	U	2	U	2	U
D	SW6010C	Iron	mg/l	0.05	U			0.05	U
D	SW6010C	Manganese	mg/l	0.096				0.00077	J

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
 CATEGORY A REVIEW REPORT
 OCTOBER 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

			SDG	480-191499-1	480-191499-1	480-191499-1	480-191499-1		
			Location	MW-202	MW-203S	MW-204S	MW-205S		
			Sample Date	10/25/2021 12:50	10/26/2021 11:35	10/25/2021 15:40	10/26/2021 10:30		
			Sample ID	828128MW20213	828128MW203S12	828128MW204S13	828128MW205S13		
			Qc Code	FS	FS	FS	FS		
Fraction	Method	Parameter	Units	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
T	SW6010C	Iron	mg/l	1.3		0.019	J		
T	SW6010C	Manganese	mg/l	0.098		0.0097			
N	D516	Sulfate	mg/l	84.6		52.8			
N	RSK175	Ethane	ug/l	7.5	U	7.5	U		
N	RSK175	Ethene	ug/l	7	U	7	U		
N	RSK175	Methane	ug/l	2.9	J	4	U		
T	SW9060	Total Organic Carbon	mg/l	2		1.5			

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
 CATEGORY A REVIEW REPORT
 OCTOBER 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

				SDG	480-191499-1	480-191499-1	480-191499-1	480-191499-1	
				Location	MW-205S	MW-206	MW-212	QC	
				Sample Date	10/26/2021 10:30	10/25/2021 10:10	10/25/2021 11:30	10/26/2021 0:00	
				Sample ID	828128MW205S13D	828128MW20617	828128MW21209	TRIP BLANK	
				Qc Code	FD	FS	FS	TB	
Fraction	Method	Parameter	Units	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
N	SW8260C	1,1,1-Trichloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/l	1	U	1	U	40	U
N	SW8260C	1,1,2-Trichloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,1-Dichloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,1-Dichloroethene	ug/l	1	U	1	U	40	U
N	SW8260C	1,2,4-Trichlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dibromo-3-chloropropane	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dibromoethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dichlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dichloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	1,2-Dichloropropane	ug/l	1	U	1	U	40	U
N	SW8260C	1,3-Dichlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	1,4-Dichlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	2-Butanone	ug/l	10	U	10	U	400	U
N	SW8260C	2-Hexanone	ug/l	5	U	5	U	200	U
N	SW8260C	4-Methyl-2-pentanone	ug/l	5	U	5	U	200	U
N	SW8260C	Acetic acid, methyl ester	ug/l	2.5	U	2.5	U	100	U
N	SW8260C	Acetone	ug/l	10	U	10	U	400	U
N	SW8260C	Benzene	ug/l	1	U	1	U	40	U
N	SW8260C	Bromodichloromethane	ug/l	1	U	1	U	40	U
N	SW8260C	Bromoform	ug/l	1	U	1	U	40	U
N	SW8260C	Bromomethane	ug/l	1	U	1	U	40	U
N	SW8260C	Carbon disulfide	ug/l	1	U	1	U	40	U
N	SW8260C	Carbon tetrachloride	ug/l	1	U	1	U	40	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
 CATEGORY A REVIEW REPORT
 OCTOBER 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

				SDG	480-191499-1	480-191499-1	480-191499-1	480-191499-1	
				Location	MW-205S	MW-206	MW-212	QC	
				Sample Date	10/26/2021 10:30	10/25/2021 10:10	10/25/2021 11:30	10/26/2021 0:00	
				Sample ID	828128MW205S13D	828128MW20617	828128MW21209	TRIP BLANK	
				Qc Code	FD	FS	FS	TB	
Fraction	Method	Parameter	Units	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
N	SW8260C	Chlorobenzene	ug/l	1	U	1	U	40	U
N	SW8260C	Chloroethane	ug/l	1	U	1	U	40	U
N	SW8260C	Chloroform	ug/l	1	U	1	U	40	U
N	SW8260C	Chloromethane	ug/l	1	U	1	U	40	U
N	SW8260C	cis-1,2-Dichloroethene	ug/l	2.5		1	U	3500	
N	SW8260C	cis-1,3-Dichloropropene	ug/l	1	U	1	U	40	U
N	SW8260C	Cyclohexane	ug/l	1	U	1	U	40	U
N	SW8260C	Dibromochloromethane	ug/l	1	U	1	U	40	U
N	SW8260C	Dichlorodifluoromethane	ug/l	1	U	1	U	40	U
N	SW8260C	Ethylbenzene	ug/l	1	U	1	U	40	U
N	SW8260C	Isopropylbenzene	ug/l	1	U	1	U	40	U
N	SW8260C	Methyl cyclohexane	ug/l	1	U	1	U	40	U
N	SW8260C	Methyl Tertbutyl Ether	ug/l	1	U	1	U	40	U
N	SW8260C	Methylene chloride	ug/l	1	U	1	U	40	U
N	SW8260C	Styrene	ug/l	1	U	1	U	40	U
N	SW8260C	Tetrachloroethene	ug/l	0.92	J+	1	U	3100	
N	SW8260C	Toluene	ug/l	1	U	1	U	40	U
N	SW8260C	trans-1,2-Dichloroethene	ug/l	1	U	1	U	40	U
N	SW8260C	trans-1,3-Dichloropropene	ug/l	1	U	1	U	40	U
N	SW8260C	Trichloroethene	ug/l	0.65	J+	1	U	1000	
N	SW8260C	Trichlorofluoromethane	ug/l	1	U	1	U	40	U
N	SW8260C	Vinyl chloride	ug/l	1	U	1	U	610	
N	SW8260C	Xylenes, Total	ug/l	2	U	2	U	80	U
D	SW6010C	Iron	mg/l			0.05	U	0.05	U
D	SW6010C	Manganese	mg/l			0.13		0.22	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS
 CATEGORY A REVIEW REPORT
 OCTOBER 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

			SDG	480-191499-1	480-191499-1	480-191499-1	480-191499-1		
			Location	MW-205S	MW-206	MW-212	QC		
			Sample Date	10/26/2021 10:30	10/25/2021 10:10	10/25/2021 11:30	10/26/2021 0:00		
			Sample ID	828128MW205S13D	828128MW20617	828128MW21209	TRIP BLANK		
			Qc Code	FD	FS	FS	TB		
Fraction	Method	Parameter	Units	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
T	SW6010C	Iron	mg/l			1.8		2.4	
T	SW6010C	Manganese	mg/l			0.19		0.22	
N	D516	Sulfate	mg/l			95.2		90.6	
N	RSK175	Ethane	ug/l			7.5 U		7.5 U	
N	RSK175	Ethene	ug/l			7 U		32	
N	RSK175	Methane	ug/l			4 U		8.6	
T	SW9060	Total Organic Carbon	mg/l			2.2		2.2	

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS
 CATEGORY A REVIEW REPORT
 OCTOBER 2021 GROUNDWATER SAMPLING
 FORMER SPEEDY'S CLEANERS SITE
 BRIGHTON, NEW YORK

SDG	Method	Lab Sample ID	Sample Date	Field Sample ID	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-191499-1	SW8260C	480-191499-5	10/26/2021	828128MW205S13	N	Tetrachloroethene	0.96	J F1 F2	0.96	J+	MSH, MSRPD	ug/l
480-191499-1	SW8260C	480-191499-5	10/26/2021	828128MW205S13	N	Trichloroethene	0.81	J F1 F2	0.81	J+	MSH, MSRPD	ug/l
480-191499-1	SW8260C	480-191499-6	10/26/2021	828128MW205S13D	N	Tetrachloroethene	0.92	J	0.92	J+	MSH, MSRPD	ug/l
480-191499-1	SW8260C	480-191499-6	10/26/2021	828128MW205S13D	N	Trichloroethene	0.65	J	0.65	J+	MSH, MSRPD	ug/l

*NYSDEC Former Speedy's Cleaners Site
NYSDEC Site No. 828128
MACTEC Engineering and Consulting, P.C.*

Project No. 3616206120

**CATEGORY A REVIEW REPORT
OCTOBER 2021 GROUNDWATER SAMPLING
FORMER SPEEDY'S CLEANERS SITE
BRIGHTON, NEW YORK**

ATTACHMENT A

VOCs

PROJECT CATEGORY A REVIEW RECORD

Project: Former Speedys Cleaners Brighton

Method : SW-846 8260C

Laboratory: TAL - Buffalo, NY

SDG(s): 480-191499-1

Date: 11/18/21

Reviewer: Gabrielle Davis

Review Level CATEGORY A

1. **Case Narrative Review and COC/Data Package Completeness** COMMENTS
Were problems noted?
Were all the samples on the COC analyzed for the requested analyses? **YES** NO (circle one)
Are Field Sample IDs and Locations assigned correctly? **YES** NO (circle one)
2. **Holding time and Sample Collection**
All samples were analyzed within the 14 day holding time. **YES** NO (circle one)
3. **QC Blanks**
Are method blanks free of contamination? **YES** NO (circle one)
Are Trip blanks free of contamination? **YES** NO (circle one)
Are Rinse blanks free of contamination? YES NO **NA** (circle one)
4. **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)
Were MS/MSDs submitted/analyzed? **YES** NO
Were all results within the Region II limits? YES **NO** NA (circle one)
See attached - subset J+, MSH, MSRPD
5. **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)
Were all results were within Region II control limits? **YES** NO (circle one)
6. **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)
Were all results within Region II limits? **YES** NO (circle one)
7. **Field Duplicates** - Region II Limits (water RPD 50, soil RPD 100)
Were Field Duplicates submitted/analyzed? **YES** NO
Were all results within Region II Limits? **YES** NO NA (circle one)
8. **Reporting Limits:** Were samples analyzed at a dilution? **YES** NO (circle one)
See attached case narrative - NDs elevated RLs
9. **Electronic Data Review and Edits**
Does the EDD match the Form Is? **YES** NO (circle one)
10. **Table Review**
Table 1 (Samples and Analytical Methods)
Table 2 (Analytical Results)
Table 3 (Qualification Actions)
Were all tables produced and reviewed? **YES** NO (circle one)
Table 4 (TICs) Did lab report TICs? YES **NO** (circle one)

GTD 12/1/21

Case Narrative

Client: New York State D.E.C.
Project/Site: Former Speedys Cleaners Brighton #828128

Job ID: 480-191499-1

Job ID: 480-191499-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-191499-1

Revision (1)

The report has been revised as requested by the client to correct the site number portion of the sample IDs.

Receipt

The samples were received on 10/27/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 828128MW21209 (480-191499-2) and 828128MW20213 (480-191499-3). Elevated reporting limits (RLs) are provided.

80x dilution - 40x refused

10x dilution

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-602737 recovered above the upper control limit for 2-Hexanone, trans-1,3-Dichloropropene and 2-Butanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: 828128MW20617 (480-191499-1), 828128MW21209 (480-191499-2), 828128MW20213 (480-191499-3), 828128MW204S13 (480-191499-4), 828128MW205S13 (480-191499-5), 828128MW205S13D (480-191499-6), 828128MW203S12 (480-191499-7) and TRIP BLANK (480-191499-8).

Method 8260C: The continuing calibration verification (CCVIS) associated with batch 480-602838 recovered outside acceptance criteria, low biased, for Cyclohexane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The associated sample is: 828128MW21209 (480-191499-2).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: 828128MW21209 (480-191499-2). Elevated reporting limits (RLs) are provided. **addressed above**

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

GC VOA

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

Metals

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

General Chemistry

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

GTD 12/1/21

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Speedys Cleaners Brighton #828128

Job ID: 480-191499-1

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

Lab Sample ID: LCS 480-602737/5
Matrix: Water
Analysis Batch: 602737

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	28.5		ug/L		114	75 - 124
Styrene	25.0	27.9		ug/L		112	80 - 120
Tetrachloroethene	25.0	27.4		ug/L		110	74 - 122
Toluene	25.0	27.1		ug/L		108	80 - 122
trans-1,2-Dichloroethene	25.0	26.9		ug/L		107	73 - 127
trans-1,3-Dichloropropene	25.0	29.6		ug/L		118	80 - 120
Trichloroethene	25.0	26.5		ug/L		106	74 - 123
Trichlorofluoromethane	25.0	25.3		ug/L		101	62 - 150
Vinyl chloride	25.0	26.6		ug/L		106	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	111		75 - 123
Toluene-d8 (Surr)	106		80 - 120

Lab Sample ID: 480-191499-5 MS
Matrix: Water
Analysis Batch: 602737

Client Sample ID: 828128MW205S13
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	70-130 %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	32.8	F1	ug/L		131	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F2	25.0	31.2		ug/L		125	61 - 148
1,1,2-Trichloroethane	ND	F1 F2	25.0	33.5	F1	ug/L		134	76 - 122
1,1-Dichloroethane	ND	F1 F2	25.0	33.1	F1	ug/L		132	77 - 120
1,1-Dichloroethene	ND	F1 F2	25.0	33.3	F1	ug/L		133	66 - 127
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	32.7	F1	ug/L		131	79 - 122
1,2-Dibromo-3-Chloropropane	ND	F2	25.0	32.7		ug/L		131	56 - 134
1,2-Dibromoethane	ND	F1 F2	25.0	33.5	F1	ug/L		134	77 - 120
1,2-Dichlorobenzene	ND	F1 F2	25.0	32.7	F1	ug/L		131	80 - 124
1,2-Dichloroethane	ND	F1 F2	25.0	32.3	F1	ug/L		129	75 - 120
1,2-Dichloropropane	ND	F1 F2	25.0	34.6	F1	ug/L		138	76 - 120
1,3-Dichlorobenzene	ND	F1	25.0	32.9	F1	ug/L		132	77 - 120
1,4-Dichlorobenzene	ND	F1 F2	25.0	32.3	F1	ug/L		129	78 - 124
2-Butanone (MEK)	ND	F2	125	176		ug/L		140	57 - 140
2-Hexanone	ND	F1 F2	125	175	F1	ug/L		140	65 - 127
4-Methyl-2-pentanone (MIBK)	ND	F1	125	166	F1	ug/L		133	71 - 125
Acetone	ND	F2	125	158		ug/L		126	56 - 142
Benzene	ND	F1 F2	25.0	33.7	F1	ug/L		135	71 - 124
Bromodichloromethane	ND	F1 F2	25.0	34.3	F1	ug/L		137	80 - 122
Bromoform	ND	F1 F2	25.0	33.5	F1	ug/L		134	61 - 132
Bromomethane	ND	F2	25.0	29.9		ug/L		120	55 - 144
Carbon disulfide	ND	F2	25.0	32.2		ug/L		129	59 - 134
Carbon tetrachloride	ND	F1 F2	25.0	35.9	F1	ug/L		144	72 - 134
Chlorobenzene	ND	F1	25.0	33.3	F1	ug/L		133	80 - 120
Chloroethane	ND	F2	25.0	29.5		ug/L		118	69 - 136
Chloroform	ND	F1 F2	25.0	32.7	F1	ug/L		131	73 - 127

Highlighted - ND in sample

GTD 12/1/21

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Speedys Cleaners Brighton #828128

Job ID: 480-191499-1

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

Lab Sample ID: 480-191499-5 MS

Client Sample ID: 828128MW205S13

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 602737

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
Chloromethane	ND	F2	25.0	29.2		ug/L		117	68 - 124
cis-1,2-Dichloroethene	2.8	F1 F2	25.0	34.6	F1	ug/L		127	74 - 124
cis-1,3-Dichloropropene	ND	F1 F2	25.0	34.1	F1	ug/L		136	74 - 124
Cyclohexane	ND	F2	25.0	31.7		ug/L		127	59 - 135
Dibromochloromethane	ND	F1 F2	25.0	35.2	F1	ug/L		141	75 - 125
Dichlorodifluoromethane	ND	F2	25.0	31.0		ug/L		124	59 - 135
Ethylbenzene	ND	F1 F2	25.0	33.4	F1	ug/L		134	77 - 123
Isopropylbenzene	ND	F1 F2	25.0	34.3	F1	ug/L		137	77 - 122
Methyl acetate	ND	F2	50.0	58.3		ug/L		117	74 - 133
Methyl tert-butyl ether	ND	F1	25.0	31.7	F1	ug/L		127	77 - 120
Methylcyclohexane	ND	F2	25.0	30.3		ug/L		121	68 - 134
Methylene Chloride	ND	F1 F2	25.0	32.8	F1	ug/L		131	75 - 124
Styrene	ND	F1	25.0	34.5	F1	ug/L		138	80 - 120
Tetrachloroethene	0.96	J F1 F2	25.0	34.8	F1	ug/L		135	74 - 122
Toluene	ND	F1 F2	25.0	33.3	F1	ug/L		133	80 - 122
trans-1,2-Dichloroethene	ND	F1 F2	25.0	33.6	F1	ug/L		134	73 - 127
trans-1,3-Dichloropropene	ND	F1 F2	25.0	33.8	F1	ug/L		135	80 - 120
Trichloroethene	0.81	J F1 F2	25.0	34.6	F1	ug/L		135	74 - 123
Trichlorofluoromethane	ND	F2	25.0	35.4		ug/L		141	62 - 150
Vinyl chloride	ND	F1 F2	25.0	36.9	F1	ug/L		148	65 - 133

J+, MSH, MSRPD

J+, MSH, MSRPD

Highlighted with no comments - ND in sample

GTD 12/1/21

Surrogate	MS	MS	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			108		77 - 120
4-Bromofluorobenzene (Surr)			108		73 - 120
Dibromofluoromethane (Surr)			106		75 - 123
Toluene-d8 (Surr)			108		80 - 120

Lab Sample ID: 480-191499-5 MSD

Client Sample ID: 828128MW205S13

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 602737

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
1,1,1-Trichloroethane	ND	F1 F2	25.0	26.8	F2	ug/L		107	73 - 126	27	15
1,1,2,2-Tetrachloroethane	ND	F1 F2	25.0	27.2	F2	ug/L		109	76 - 120	19	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F2	25.0	24.0	F2	ug/L		96	61 - 148	26	20
1,1,2-Trichloroethane	ND	F1 F2	25.0	27.4	F2	ug/L		110	76 - 122	20	15
1,1-Dichloroethane	ND	F1 F2	25.0	25.3	F2	ug/L		101	77 - 120	26	20
1,1-Dichloroethene	ND	F1 F2	25.0	25.4	F2	ug/L		102	66 - 127	27	16
1,2,4-Trichlorobenzene	ND	F1 F2	25.0	25.6	F2	ug/L		103	79 - 122	24	20
1,2-Dibromo-3-Chloropropane	ND	F2	25.0	27.5	F2	ug/L		110	56 - 134	17	15
1,2-Dibromoethane	ND	F1 F2	25.0	28.0	F2	ug/L		112	77 - 120	18	15
1,2-Dichlorobenzene	ND	F1 F2	25.0	26.4	F2	ug/L		106	80 - 124	21	20
1,2-Dichloroethane	ND	F1 F2	25.0	25.2	F2	ug/L		101	75 - 120	25	20
1,2-Dichloropropane	ND	F1 F2	25.0	26.7	F2	ug/L		107	76 - 120	26	20
1,3-Dichlorobenzene	ND	F1	25.0	26.9		ug/L		108	77 - 120	20	20
1,4-Dichlorobenzene	ND	F1 F2	25.0	25.9	F2	ug/L		104	78 - 124	22	20
2-Butanone (MEK)	ND	F2	125	140	F2	ug/L		112	57 - 140	22	20
2-Hexanone	ND	F1 F2	125	146	F2	ug/L		117	65 - 127	18	15

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Former Speedys Cleaners Brighton #828128

Job ID: 480-191499-1

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

Lab Sample ID: 480-191499-5 MSD

Client Sample ID: 828128MW205S13

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 602737

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		
4-Methyl-2-pentanone (MIBK)	ND	F1	125	135		ug/L		108	71 - 125	20	35
Acetone	ND	F2	125	120	F2	ug/L		96	56 - 142	27	15
Benzene	ND	F1 F2	25.0	26.0	F2	ug/L		104	71 - 124	26	13
Bromodichloromethane	ND	F1 F2	25.0	27.5	F2	ug/L		110	80 - 122	22	15
Bromoform	ND	F1 F2	25.0	28.4	F2	ug/L		113	61 - 132	17	15
Bromomethane	ND	F2	25.0	24.1	F2	ug/L		96	55 - 144	22	15
Carbon disulfide	ND	F2	25.0	24.7	F2	ug/L		99	59 - 134	26	15
Carbon tetrachloride	ND	F1 F2	25.0	28.3	F2	ug/L		113	72 - 134	24	15
Chlorobenzene	ND	F1	25.0	27.5		ug/L		110	80 - 120	19	25
Chloroethane	ND	F2	25.0	23.5	F2	ug/L		94	69 - 136	23	15
Chloroform	ND	F1 F2	25.0	25.4	F2	ug/L		102	73 - 127	25	20
Chloromethane	ND	F2	25.0	23.0	F2	ug/L		92	68 - 124	24	15
cis-1,2-Dichloroethene	2.8	F1 F2	25.0	26.3	F2	ug/L		94	74 - 124	27	15
cis-1,3-Dichloropropene	ND	F1 F2	25.0	26.7	F2	ug/L		107	74 - 124	24	15
Cyclohexane	ND	F2	25.0	24.6	F2	ug/L		98	59 - 135	25	20
Dibromochloromethane	ND	F1 F2	25.0	29.1	F2	ug/L		117	75 - 125	19	15
Dichlorodifluoromethane	ND	F2	25.0	23.8	F2	ug/L		95	59 - 135	27	20
Ethylbenzene	ND	F1 F2	25.0	27.5	F2	ug/L		110	77 - 123	19	15
Isopropylbenzene	ND	F1 F2	25.0	27.5	F2	ug/L		110	77 - 122	22	20
Methyl acetate	ND	F2	50.0	46.6	F2	ug/L		93	74 - 133	22	20
Methyl tert-butyl ether	ND	F1	25.0	24.2		ug/L		97	77 - 120	27	37
Methylcyclohexane	ND	F2	25.0	23.8	F2	ug/L		95	68 - 134	24	20
Methylene Chloride	ND	F1 F2	25.0	24.9	F2	ug/L		99	75 - 124	28	15
Styrene	ND	F1	25.0	28.1		ug/L		113	80 - 120	20	20
Tetrachloroethene See quals above	0.96	J F1 F2	25.0	27.9	F2	ug/L		108	74 - 122	22	20
Toluene	ND	F1 F2	25.0	26.9	F2	ug/L		108	80 - 122	21	15
trans-1,2-Dichloroethene	ND	F1 F2	25.0	25.6	F2	ug/L		103	73 - 127	27	20
trans-1,3-Dichloropropene	ND	F1 F2	25.0	27.7	F2	ug/L		111	80 - 120	20	15
Trichloroethene See quals above	0.81	J F1 F2	25.0	26.2	F2	ug/L		102	74 - 123	28	16
Trichlorofluoromethane	ND	F2	25.0	27.7	F2	ug/L		111	62 - 150	24	20
Vinyl chloride	ND	F1 F2	25.0	29.1	F2	ug/L		116	65 - 133	24	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
4-Bromofluorobenzene (Surr)	115		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123
Toluene-d8 (Surr)	113		80 - 120

GTD 12/11/21

Lab Sample ID: MB 480-602838/10

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 602838

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/01/21 12:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/01/21 12:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/01/21 12:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/01/21 12:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/01/21 12:34	1

Eurofins TestAmerica, Buffalo

Sample ID: 828128MW205S13 / 828128MW205S13D

RPD < 50 - within limits

Compound	Result	LabQual	Dup	LabQual	RPD
cis-1,2-Dichloroethene	2.8		2.5		11.3

GTD 12/1/21