May 29, 2025

Email: daniel.lanners@dec.ny.gov

Mr. Daniel R. Lanners, P.E. New York State Department of Environmental Conservation Division of Environmental Remediation Remedial Bureau C 625 Broadway, 11<sup>th</sup> Floor Albany, New York 12233-7014

Subject: Groundwater Monitoring Report – Second Quarter, 2025

Apple Valley Shopping Center

Freedom Plains Road, Dutchess County, LaGrange, New York

Site No. 314084

STERLING File #23008

Dear Mr. Lanners,

This letter report provides results of the 2<sup>nd</sup> quarter groundwater monitoring event for 2025 performed by Sterling Environmental Engineering, P.C. (STERLING) at the Apple Valley Shopping Center (AVSC, or the "Site") in LaGrange, New York on April 25, 2025.

Groundwater samples were collected from monitoring wells MW-2 and MW-7, recovery well AV-2, and from the groundwater treatment system effluent discharge, AVS-EFF. Samples collected from the monitoring locations were analyzed for the following site-specific chlorinated volatile organic compounds (cVOC): tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (DCE), and vinyl chloride. As reported in the November 8, 2022 status letter, recovery wells RW-1 and RW-2 are temporarily out of service pending repairs. A series of water levels were collected from the onsite monitoring wells to prepare the attached groundwater contour map. The groundwater contour map indicates that the onsite groundwater collection and treatment system continues to provide gradient control with groundwater flow towards recovery well AV-2.

STERLING previously mailed a letter to the new owner of 8 Chestnut Ridge Road (i.e., Lot 6) notifying the owner of the regulatory status of the AVSC Site and offering to resume sampling of their water supply. The letter was sent via Certified Mail with delivery confirmation. No response has been received from the owner. STERLING field personnel went to Lot 6 at the beginning and end of the sampling day, but the owner was not available. Therefore, Lot 6 was not sampled.

### **Treatment System Operations**

For the period of March 5, 2025 (first quarter monitoring event) through April 25, 2025 (second quarter monitoring event), the treatment system recovered, treated, and discharged approximately 262,373 gallons of groundwater based on recorded system data. For the total period from startup of the system in May 2019 to this sample event, the system recovered, treated, and discharged approximately 16,343,997 gallons.

"Serving our clients and the environment since 1993"

RW-1 and RW-2 remain temporarily out of service pending repairs. In addition, no flow was obtained at RW-3 during the time of the sampling under manual pump operation. RW-1 and RW-2 were redeveloped on November 20-21, 2024 via mechanical surging and pumping of the wells to remove cooking oil and solids. Development water was temporarily containerized in sealed 55-gallon drums to allow settling of solids before being treated through the groundwater treatment system. One 55-gallon drum of solids remains onsite pending characterization and disposal. Following redevelopment, the contractor inspected the treatment system controls and observed a power supply issue to RW-1 and RW-2. STERLING is coordinating with the repair contractor and the treatment system vendor to troubleshoot the power issue so the pumps can be returned to service.

### **Groundwater Sampling and Analysis: VOCs**

Groundwater samples were collected from the sampling ports in the treatment system trailer directly into laboratory provided glassware. The sample for the treatment system effluent was collected directly from the discharge pipe. Samples were transported in a cooler with ice under chain of custody protocol to Pace Analytical of Westborough, MA for analysis of site-specific cVOCs by USEPA Method 8260D.

### **Groundwater Sampling and Laboratory Analytical Results**

Analytical results for collected samples are summarized in Table 1 and the analytical report is included in Attachment A.

ANALYTE	Regulatory Standard µg/L	MW-2	MW-7	AV-2	AVS- EFF
Tetrachloroethene (PCE)	5	560	18	320	0.63
Trichloroethene (TCE)	5	70	1.2	28	0.18 U
cis-1,2-Dichloroethene (DCE)	5	50	0.73 J	20	0.7 U
Vinyl chloride	2	0.11 J	0.07 U	0.07 U	0.07 U
Total VOCs		680.11	19.93	368	0.63

Table 1 – April 25, 2025 Groundwater Monitoring Sample Results

Notes: Regulatory Standard is New York TOGS 1.1.1 Ambient Water Quality Standards, June 2004 **Bold** and highlighted concentrations exceed applicable regulatory standard.

NS - Not Sampled

Monitoring Wells – Concentrations of PCE, TCE, and DCE were detected above the Technical and Operational Guidance Series (TOGS 1.1.1) Water Quality Standards and Guidance Values of 5  $\mu$ g/l in groundwater samples from MW-2 located within the central portion of the onsite contaminant plume. Concentrations of site-specific cVOCs were below TOGS 1.1.1 Water Quality Standards and Guidance Values, except for PCE, for sample MW-7 located on the plume fringe between the site and offsite residences to the south.

U - Not Detected (ND). The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - Concentration is above the laboratory method detection limit but below the reporting limit and is estimated.

Recovery Wells – Concentrations of PCE, TCE, and DCE were detected above the TOGS 1.1.1 Water Quality Standards and Guidance Values of 5 μg/l in groundwater sample collected from AV-2.

Effluent Discharge – Concentrations of site-specific cVOCs were all below TOGS 1.1.1 Water Quality Standards and Guidance Values for sample AVS-EFF indicating proper operation of the treatment system.

### **Conclusions and Discussion**

Site-specific cVOCs exist in recovered onsite groundwater at concentrations above the TOGS 1.1.1 Water Quality Standards and Guidance Values, which is consistent with prior monitoring events.

The effluent discharge sample (AVS-EFF) contained no cVOC concentrations above the TOGS 1.1.1 Water Quality Standards and Guidance Values confirming that the treatment system is functioning properly.

The collected site-wide groundwater elevations indicate that the onsite groundwater collection and treatment system continues to provide gradient control with groundwater flow towards recovery well AV-2.

STERLING will provide a schedule for returning recovery wells RW-1 and RW-2 to service once troubleshooting is completed with the repair contractor and treatment system vendor.

The next monitoring is scheduled for the third quarter of 2025 consisting of the following:

- Sampling recovery wells AV-2, RW-3, and treatment system effluent (AVS-EFF).
- Vapor sampling of onsite vapor mitigation systems SSDS-E (Walgreens) and SSDS-W (Pizza Margherita).
- Collection of groundwater elevations to confirm drawdown.
- Onsite maintenance and cleaning of the treatment system.

Please contact me should you have any questions.

Very Truly Yours,

STERLING ENVIRONMENTAL ENGINEERING, P.C.

Mark P. Millspaugh, P.E.

President

Mark.Millspaugh@sterlingenvironmental.com

MPM/ps Via Email

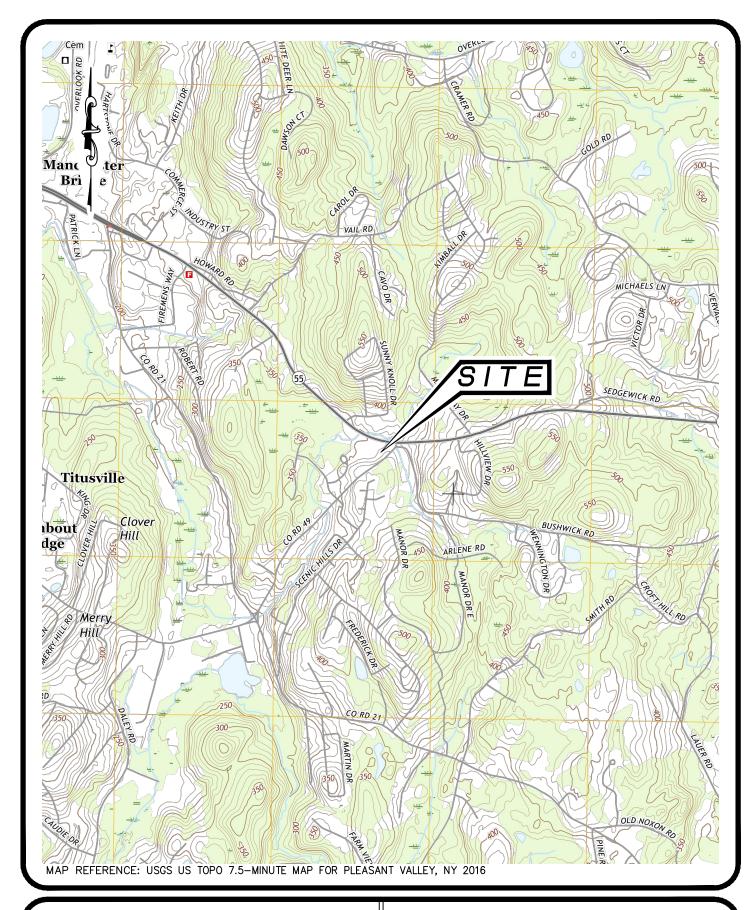
Attachments: Figure 1 – Site Location Map

Figure 2 – Groundwater Contour Map

Attachment A – Laboratory Analytical Reports

cc: David Engel, Esq.





### SERLING

Sterling Environmental Engineering, P.C. 24 Wade Road • Latham, New York 12110

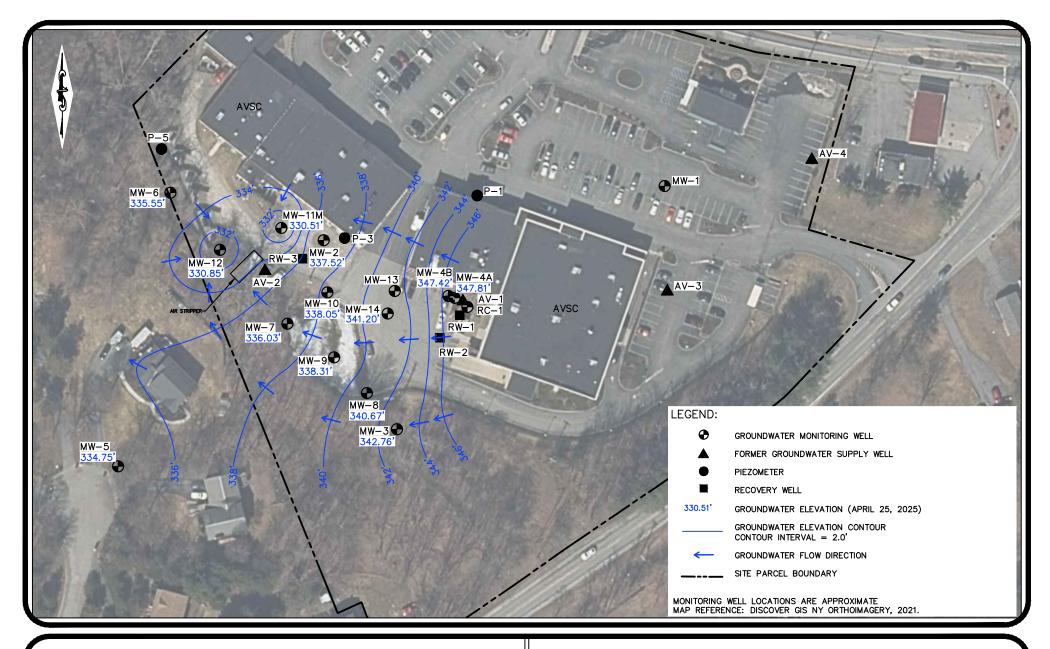
SITE LOCATION MAP

APPLE VALLEY SHOPPING CENTER

FREEDOM PLAINS ROAD

TOWN OF LAGRANGE DUTCHESS CO., N.Y.

PROJ. No.: 23008 DATE: 9/25/2019 SCALE: 1" = 2000' DWG. NO. 23008001 FIGURE 1





Sterling Environmental Engineering, P.C. 24 Wade Road • Latham, New York 12110

## GROUNDWATER CONTOUR MAP APPLE VALLEY SHOPPING CENTER FREEDOM PLAINS ROAD

TOWN OF LAGRANGE

DUTCHESS COUNTY, NEW YORK

PROJ. No.: 23008 | DATE: 04/29/2025 | SCALE: 1"=100' | DWG. NO. 23008030 | FIGURE 2

# ATTACHMENT A LABORATORY ANALYTICAL REPORT



### ANALYTICAL REPORT

Lab Number: L2525877

Client: Sterling Environmental Engineering

24 Wade Road Latham, NY 12110

ATTN: Andrew Millspaugh Phone: (518) 456-4900

Project Name: AVSC
Project Number: 23008
Report Date: 05/13/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0825), DoD (L2474), FL (E87814), IL (200081), IN (C-MA-04), KY (KY98046), LA (85084), ME (MA00030), MD (350), MI (9110), MN (025-999-495), NJ (MA015), NY (11627), NC (685), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708A1), USFWS (Permit #A24920).



Project Name: AVSC
Project Number: 23008

 Lab Number:
 L2525877

 Report Date:
 05/13/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2525877-01	AV-2	WATER	LAGRANGE, NY	04/25/25 13:00	04/25/25
L2525877-02	AVS-EFF	WATER	LAGRANGE, NY	04/25/25 12:50	04/25/25
L2525877-03	MW-7	WATER	LAGRANGE, NY	04/25/25 14:25	04/25/25
L2525877-04	MW-2	WATER	LAGRANGE, NY	04/25/25 15:20	04/25/25
L2525877-05	TB04252025	WATER	LAGRANGE, NY	04/25/25 00:00	04/25/25



Project Name:AVSCLab Number:L2525877Project Number:23008Report Date:05/13/25

### **Case Narrative**

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

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

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

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

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

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



Project Name:AVSCLab Number:L2525877Project Number:23008Report Date:05/13/25

### **Case Narrative (continued)**

### Report Submission

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

### Sample Receipt

L2525877-01: The collection date and time on the chain of custody was 25-APR-25 12:50; however, the collection date/time on the container label was 25-APR-25 13:00. At the client's request, the collection date/time is reported as 25-APR-25 13:00.

L2525877-02: The collection date and time on the chain of custody was 25-APR-25 13:00; however, the collection date/time on the container label was 25-APR-25 12:50. At the client's request, the collection date/time is reported as 25-APR-25 12:50.

### Volatile Organics

L2525877-01D and -04D: The sample was analyzed with the method required holding time exceeded.

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

Authorized Signature:

Title: Technical Director/Representative Date: 05/13/25

Melissa Sturgis Melissa Sturgis

Pace

### **ORGANICS**



### **VOLATILES**



Project Name: AVSC Lab Number: L2525877

Project Number: 23008 Report Date: 05/13/25

**SAMPLE RESULTS** 

Lab ID: L2525877-01 Date Collected: 04/25/25 13:00

Client ID: AV-2 Date Received: 04/25/25

Sample Location: LAGRANGE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/08/25 14:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Volatile Organics by GC/MS - Westborough Lab								
Tetrachloroethene	350	E	ug/l	0.50	0.18	1		
Vinyl chloride	ND		ug/l	1.0	0.07	1		
Trichloroethene	28		ug/l	0.50	0.18	1		
cis-1,2-Dichloroethene	20		ug/l	2.5	0.70	1		

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	112	70-130	
Toluene-d8	96	70-130	
4-Bromofluorobenzene	88	70-130	
Dibromofluoromethane	111	70-130	



**Project Name:** Lab Number: **AVSC** L2525877

**Project Number:** Report Date: 23008 05/13/25

**SAMPLE RESULTS** 

Lab ID: L2525877-01 D Date Collected: 04/25/25 13:00

Client ID: AV-2

Date Received: 04/25/25 Sample Location: Field Prep: LAGRANGE, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 05/11/25 18:20

Parameter	Result	Qualifier	Units	RL	MDL Dilution Factor			
Volatile Organics by GC/MS - Westborough Lab								
Tetrachloroethene	320		ug/l	2.5	0.90	5		
					Accomtonics			

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130



Project Name: AVSC Lab Number: L2525877

Project Number: 23008 Report Date: 05/13/25

**SAMPLE RESULTS** 

Lab ID: L2525877-02 Date Collected: 04/25/25 12:50

Client ID: AVS-EFF Date Received: 04/25/25
Sample Location: LAGRANGE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/08/25 14:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor		
Volatile Organics by GC/MS - Westborough Lab								
Tetrachloroethene	0.63		ug/l	0.50	0.18	1		
Vinyl chloride	ND		ug/l	1.0	0.07	1		
Trichloroethene	ND		ug/l	0.50	0.18	1		
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1		

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	113	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	87	70-130	
Dibromofluoromethane	116	70-130	



Project Name: AVSC Lab Number: L2525877

Project Number: 23008 Report Date: 05/13/25

**SAMPLE RESULTS** 

Lab ID: L2525877-03 Date Collected: 04/25/25 14:25

Client ID: MW-7 Date Received: 04/25/25

Sample Location: LAGRANGE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/08/25 14:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Volatile Organics by GC/MS - Westborough Lab									
Tetrachloroethene	18		ug/l	0.50	0.18	1			
Vinyl chloride	ND		ug/l	1.0	0.07	1			
Trichloroethene	1.2		ug/l	0.50	0.18	1			
cis-1,2-Dichloroethene	0.73	J	ug/l	2.5	0.70	1			

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	114	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	87	70-130	
Dibromofluoromethane	117	70-130	



Project Name: AVSC Lab Number: L2525877

Project Number: 23008 Report Date: 05/13/25

**SAMPLE RESULTS** 

Lab ID: L2525877-04 Date Collected: 04/25/25 15:20

Client ID: MW-2 Date Received: 04/25/25 Sample Location: LAGRANGE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/08/25 15:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Volatile Organics by GC/MS - Westborough Lab									
Tetrachloroethene	630	E	ug/l	0.50	0.18	1			
Vinyl chloride	0.11	J	ug/l	1.0	0.07	1			
Trichloroethene	70		ug/l	0.50	0.18	1			
cis-1,2-Dichloroethene	50		ug/l	2.5	0.70	1			

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	109	70-130	
Toluene-d8	96	70-130	
4-Bromofluorobenzene	86	70-130	
Dibromofluoromethane	110	70-130	



**Project Name:** Lab Number: **AVSC** L2525877

**Project Number:** Report Date: 23008 05/13/25

**SAMPLE RESULTS** 

Lab ID: L2525877-04 D Date Collected: 04/25/25 15:20

Client ID: MW-2

Date Received: 04/25/25 Sample Location: Field Prep: LAGRANGE, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260D Analytical Date: 05/11/25 17:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough L	.ab					
Tetrachloroethene	560		ug/l	5.0	1.8	10
Surrogate			% Recovery	Qualifier		ptance iteria

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	105		70-130	
Toluene-d8	100		70-130	
4-Bromofluorobenzene	98		70-130	
Dibromofluoromethane	109		70-130	



Project Name: AVSC Lab Number: L2525877

Project Number: 23008 Report Date: 05/13/25

**SAMPLE RESULTS** 

Lab ID: L2525877-05 Date Collected: 04/25/25 00:00

Client ID: TB04252025 Date Received: 04/25/25 Sample Location: LAGRANGE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 05/08/25 13:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Wes	stborough Lab						
Tetrachloroethene	ND		ug/l	0.50	0.18	1	
Vinyl chloride	ND		ug/l	1.0	0.07	1	
Trichloroethene	ND		ug/l	0.50	0.18	1	
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	115	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	85	70-130	
Dibromofluoromethane	117	70-130	



Project Name: AVSC Lab Number: L2525877

Project Number: 23008 Report Date: 05/13/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 05/08/25 10:57

Analyst: MJV

Parameter	Result	Qualifier Uni	ts	RL	MDL	
Volatile Organics by GC/MS - Westb	orough Lab	o for sample(s):	01-05	Batch:	WG2065141-5	
Tetrachloroethene	ND	ug	j/l	0.50	0.18	
Vinyl chloride	ND	ug	<b>1/</b> I	1.0	0.07	
Trichloroethene	ND	ug	<b>y/</b> I	0.50	0.18	
cis-1,2-Dichloroethene	ND	ug	g/l	2.5	0.70	

		Acceptance	
Surrogate	%Recovery Qualifi	•	
40.00	440	70.400	
1,2-Dichloroethane-d4	110	70-130	
Toluene-d8	98	70-130	
4-Bromofluorobenzene	87	70-130	
Dibromofluoromethane	113	70-130	



Project Name: AVSC Lab Number: L2525877

Project Number: 23008 Report Date: 05/13/25

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D Analytical Date: 05/11/25 13:15

Analyst: MJV

Parameter	Result	Qualifier Uni	ts	RL	MDL	
Volatile Organics by GC/MS - Westb	orough Lab	o for sample(s):	01,04	Batch:	WG2065490-5	
Tetrachloroethene	ND	ug	g/l	0.50	0.18	
Vinyl chloride	ND	นดู	g/l	1.0	0.07	
Trichloroethene	ND	ug	g/l	0.50	0.18	
cis-1,2-Dichloroethene	ND	ug	g/l	2.5	0.70	

		Acceptance	
Surrogate	%Recovery Qualif	ier Criteria	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	102	70-130	
Dibromofluoromethane	109	70-130	



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** AVSC

**Project Number:** 

23008

Lab Number:

L2525877

Report Date:

05/13/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westboroug	h Lab Associa	ated sample(s):	01-05 Batch	: WG2065	141-3 WG206	5141-4		
Tetrachloroethene	99		110		70-130	11		20
Vinyl chloride	110		120		55-140	9		20
Trichloroethene	100		110		70-130	10		20
cis-1,2-Dichloroethene	99		110		70-130	11		20

	LCS	LCSD	Acceptance	
Surrogate	%Recovery Qual	%Recovery Qual	Criteria	_
1,2-Dichloroethane-d4	113	114	70-130	
Toluene-d8	100	99	70-130	
4-Bromofluorobenzene	88	87	70-130	
Dibromofluoromethane	112	109	70-130	



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** AVSC

**Project Number:** 

23008

Lab Number:

L2525877

Report Date:

05/13/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westboroug	h Lab Associat	ted sample(s)	: 01,04 Bat	ch: WG206	65490-3 WG206	5490-4			
Tetrachloroethene	92		88		70-130	4		20	
Vinyl chloride	92		88		55-140	4		20	
Trichloroethene	87		85		70-130	2		20	
cis-1,2-Dichloroethene	91		91		70-130	0		20	

Surrogate	LCS %Recovery Qual	LCSD %Recovery Qual	Acceptance Criteria	
1,2-Dichloroethane-d4	101	102	70-130	-
Toluene-d8	104	103	70-130	
4-Bromofluorobenzene	98	99	70-130	
Dibromofluoromethane	103	103	70-130	



Project Name: **AVSC** Lab Number: L2525877 Project Number: 23008

**Report Date:** 05/13/25

### Sample Receipt and Container Information

YES Were project specific reporting limits specified?

**Cooler Information** 

Custody Seal Cooler

Α Absent

Container Information				Initial	Final	Temp			Frozen		
	Container ID	Container Type	Cooler	pН	pН	deg C	Pres	Seal	Date/Time	Analysis(*)	
	L2525877-01A	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-01B	Vial HCI preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-01C	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-02A	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-02B	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-02C	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-03A	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-03B	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-03C	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-04A	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-04B	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-04C	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-05A	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-05B	Vial HCl preserved	Α	NA		2.9	Υ	Absent		NYTCL-8260-R2(14)	
	L2525877-05C	Vial HCl preserved	Α	NA		2.9	Υ	Absent		-	



**Project Name:** Lab Number: AVSC L2525877 **Report Date: Project Number:** 23008 05/13/25

#### **GLOSSARY**

#### Acronyms

**EDL** 

LOQ

MS

MSD

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments

from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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

of PAHs using Solid-Phase Microextraction (SPME).

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

estimate of the concentration. **EPA** 

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes or a material containing known and verified amounts of analytes.

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

Environmental Protection Agency.

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

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

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

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

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

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

using the native concentration, including estimated values. - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile

Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL

includes any adjustments from dilutions, concentrations or moisture content, where applicable.

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

values; although the RPD value will be provided in the report.

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

associated field samples.

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

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

TEO - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF

and then summing the resulting values.

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

Report Format: DU Report with 'J' Qualifiers



Project Name: AVSC Lab Number: L2525877

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#### **Footnotes**

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

#### **Terms**

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

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

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

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

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'. Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

### Data Qualifiers

- A -Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.
- H The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I The lower value for the two columns has been reported due to obvious interference.
- J Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers



Project Name:AVSCLab Number:L2525877Project Number:23008Report Date:05/13/25

#### **Data Qualifiers**

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

- M Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- **NJ** Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P The RPD between the results for the two columns exceeds the method-specified criteria.
- Q The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- **R** Analytical results are from sample re-analysis.
- **RE** Analytical results are from sample re-extraction.
- S Analytical results are from modified screening analysis.
- The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers



Project Name: AVSC Lab Number: L2525877

Project Number: 23008 Report Date: 05/13/25

### **REFERENCES**

Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

### LIMITATION OF LIABILITIES

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

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



**Pace Analytical Services LLC** 

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

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Published Date: 01/24/2025

### **Certification Information**

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

EPA 624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625.1: alpha-Terpineol

**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: lodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene. **EPA 8270E:** NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

**SM4500**: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

SM 2540D: TSS.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.

Nonpotable Water: EPA RSK-175 Dissolved Gases

Biological Tissue Matrix: EPA 3050B

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases

The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)

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

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO3-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

 ${\sf EPA~180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B}$ 

EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO3-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate. EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables)

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

**Drinking Water** 

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

Document Type: Form Pre-Qualtrax Document ID: 08-113

**Pace Analytical Services LLC** 

Facility: Northeast

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:**17873** Revision 27

Published Date: 01/24/2025

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### **Certification IDs:**

Westborough Facility - 8 Walkup Dr. Westborough, MA 01581

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility - 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANÅB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility - 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

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

Document Type: Form

Pre-Qualtrax Document ID: 08-113

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