November 7, 2022

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, 11th Floor Albany, New York 12233-7014

Groundwater Monitoring Report – Third Quarter, 2022

Apple Valley Shopping Center

Freedom Plains Road, Dutchess County, LaGrange, New York

Site No. 314084

STERLING File #23008

Dear Mr. Lanners,

Subject:

This letter report provides results of the 3rd quarter groundwater and annual sub-slab depressurization system (SSDS) monitoring event for 2022 performed by Sterling Environmental Engineering, P.C. (STERLING) at the Apple Valley Shopping Center (AVSC, or the "Site") in LaGrange, New York on September 22, 2022.

Groundwater samples were collected from recovery wells AV-2, RW-1, RW-2, RW-3, 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.

Vapor samples SSDS-E and SSDS-W were collected from the SSDS exhaust ducts at the Walgreens (SSDS-E) and Pizza Margherita (SSDS-W). Air samples were analyzed for VOCs via USEPA Method TO-15.

Treatment System Operations

For the period of June 21, 2022 (second quarter monitoring event) through September 22, 2022 (third quarter monitoring event), the treatment system recovered, treated, and discharged approximately 536,218 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 11,172,681 gallons. Quarterly maintenance and inspection were performed during the monitoring event.

Due to ongoing intermittent flow from RW-1 and lower than targeted flow from RW-2, STERLING coordinated an inspection of the system by a control systems engineer from LaBella Associates on June 29, 2022. The systems engineer inspected the control panel, VFD pump drives, and system electronics. Based on the assessment, the engineer determined that the control system appeared to be operating correctly and sending signals to the pumps at RW-1 and RW-2 to pump at that targeted pump rate. Because there is intermittent flow at RW-1 and lower than targeted flow at RW-2, the systems engineer suspects that there is a clog in the pump screens and recommends that the pumps be pulled for inspection

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and cleaning. STERLING has scheduled to have the pumps removed, cleaned, inspected, and re-installed. The results of the pump inspection will be summarized in a letter report with any additional maintenance recommendations.

Groundwater Sampling and Analysis: VOCs

Groundwater samples were collected from the sampling ports in the treatment system trailer directly into laboratory provided glassware. The sampling point 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 Alpha Analytical of Westborough, MA for analysis of site-specific cVOCs by USEPA Method 8260C.

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	AV-2	RW-1	RW-2	RW-3	AVS- EFF
Tetrachloroethene (PCE)	5	200	7.2 U	620	210	0.18 U
Vinyl chloride	2	0.18 U	860	4.1 J	0.14 U	0.07 U
Trichloroethene (TCE)	5	17	7 U	89	17	0.18 U
cis-1,2-Dichloroethene (DCE)	5	17	4,600	140	25	0.7 U
Total VOCs		234	5,460	853.1 J	252	ND

Table 1 – September 22, 2022 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.

- 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.
- NS Not Sampled

Recovery Wells – Concentrations of PCE, TCE, and DCE were detected above the TOGS 1.1.1 Water Quality Standards and Guidance Values of 5 μ g/l in groundwater samples collected from AV-2, RW-2, and RW-3. DCE was also detected above the TOGS 1.1.1 Water Quality Standards and Guidance Values of 5 μ g/l in RW-1. Vinyl Chloride was detected at a concentration above the TOGS 1.1.1 Water Quality Standards and Guidance Values of 2 μ g/l in monitoring well RW-1 and RW-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.

Sub-Slab Vapor Sampling and Analysis

Vapor samples were withdrawn from sampling ports in the exterior exhaust ducts prior to the in-line blower fans. SSDS sample collection was conducted into laboratory-prepared Summa canisters equipped with 8-hour laboratory-calibrated flow regulators. Samples were transported under chain of custody protocol to Alpha Analytical of Westborough, MA for analysis of VOCs by USEPA Method TO-15.

Sub-Slab Vapor Sampling and Laboratory Analytical Results

Analytical results for collected samples are summarized in Table 2 and the analytical report is included in Attachment A.

•	, .	0 1	
ANALYTE	Min. Guidance Value ug/m³	SSDS-E	SSDS-W
Cis-1,2-Dichloroethene	<6	ND <0.793	ND <0.793
Tetrachloroethylene (PCE)	<100	71.2	521
Trichloroethylene (TCE)	<6	1.24	7.74
Vinyl Chloride	<6	ND <0.511	ND <0.511

Table 2 – September 22, 2022 Vapor Monitoring Sample Results

Notes: Regulatory Standard is NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York - 2017 Revised Decision Matrices A, B & C (NYSDOH Vapor Intrusion Guidance).

ND = Not detected at shown Reporting Limit (RL) for sample.

Bold and highlighted concentrations exceed applicable regulatory standard.

SSDS-E (Walgreens): Concentrations of all site-specific cVOCs were detected below the minimum guidance values in the NYSDOH soil vapor matrices. No deficiencies with the SSDS were observed.

SSDS-W (Pizza Margherita): PCE was detected at a concentration above the minimum guidance value of $100 \,\mu g/m^3$ in the NYSDOH soil vapor matrices. TCE was detected at a concentration above the minimum guidance value of $6 \,\mu g/m^3$ in the NYSDOH soil vapor matrices. Concentrations of DCE and Vinyl Chloride were detected below the minimum guidance values in the NYSDOH soil vapor matrices. No deficiencies with the SSDS were observed.

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.

Site-specific cVOCs exist at concentrations above the minimum soil vapor guidance values contained in the NYSDOH soil vapor matrices at the SSDS-W monitoring location for Pizza Margherita. Active mitigation and monitoring should continue at both locations until paired sub-slab and indoor air samples indicate no further action based on the NYSDOH Soil Vapor Guidance decision matrices.

The next monitoring is scheduled for the fourth quarter of 2022 consisting of the following:

- Sampling recovery wells AV-2, RW-1, RW-2, RW-3, and treatment system effluent (AVS-EFF).
- 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/am Via Email

Attachments: Figure 1 – Site Location Map

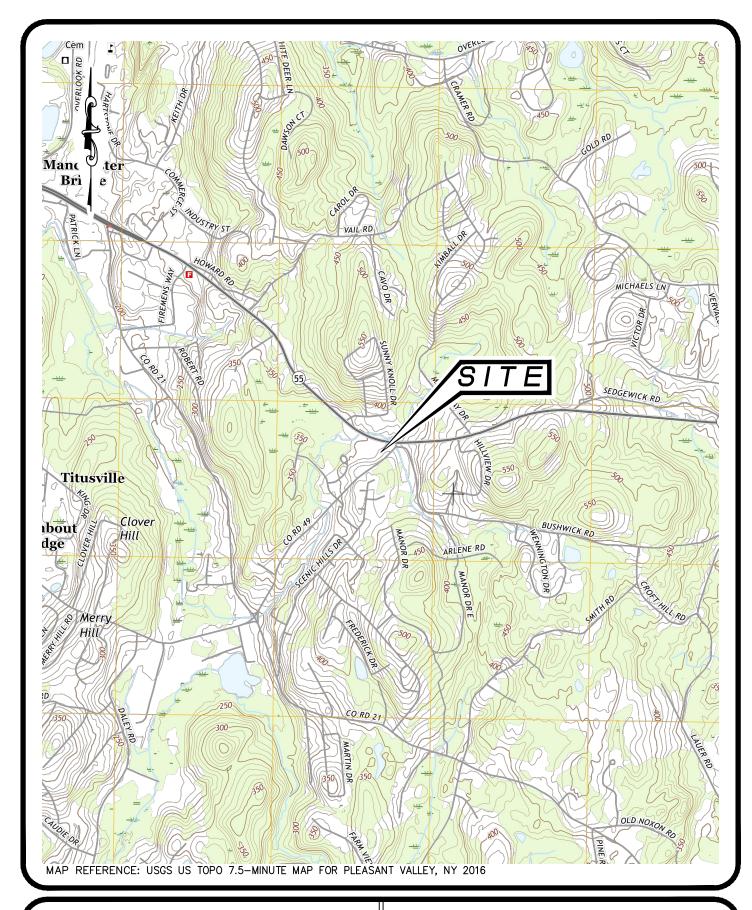
Figure 2 – Selected Site Features

Attachment A – Laboratory Analytical Reports

cc: David Engel, Esq.

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Sterling Environmental Engineering, P.C.

24 Wade Road • Latham, New York 12110

SITE LOCATION MAP APPLE VALLEY SHOPPING FREEDOM PLAINS ROAD CENTER

TOWN OF LAGRANGE DUTCHESS CO., N.Y.

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

1" = 100'

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

PROJ. No.:

23008 DATE: 01/18/2022 SCALE:

TOWN OF LAGRANGE

1" = 100' DWG. NO. 23008028 FIGURE

DUTCHESS CO., NY

RECOVERY WELL

PIEZOMETER

♦ SUB-SLAB VAPOR MONITORING POINT

▲ ■ AV−2 RW−1

ATTACHMENT A LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Lab Number: L2252405

Client: Sterling Environmental Engineering

24 Wade Road Latham, NY 12110

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

Project Name: APPLE VALLEY SHOPPING CENTER

Project Number: 23008 Report Date: 10/05/22

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

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

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



Project Name: APPLE VALLEY SHOPPING CENTER

Project Number: 23008

Lab Number: L2252405 **Report Date:** 10/05/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2252405-01	RW-1	WATER	LAGRANGE, NY	09/22/22 11:10	09/22/22
L2252405-02	RW-2	WATER	LAGRANGE, NY	09/22/22 11:20	09/22/22
L2252405-03	RW-3	WATER	LAGRANGE, NY	09/22/22 11:30	09/22/22
L2252405-04	AV-2	WATER	LAGRANGE, NY	09/22/22 11:40	09/22/22
L2252405-05	AVS-EFF	WATER	LAGRANGE, NY	09/22/22 12:00	09/22/22
L2252405-06	TB09222022	WATER	LAGRANGE, NY	09/22/22 00:00	09/22/22



L2252405

Project Name: APPLE VALLEY SHOPPING CENTER Lab Number:

Project Number: 23008 Report Date: 10/05/22

Case Narrative

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

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

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

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

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

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



Project Name:APPLE VALLEY SHOPPING CENTERLab Number:L2252405Project Number:23008Report Date:10/05/22

Case Narrative (continued)

Report Submission

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

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

Authorized Signature:

Title: Technical Director/Representative Date: 10/05/22

Melissa Sturgis Melissa Sturgis

ORGANICS



VOLATILES



10/05/22

Report Date:

Project Name: Lab Number: APPLE VALLEY SHOPPING CENTER L2252405

Project Number: 23008

SAMPLE RESULTS

Lab ID: L2252405-01 D Date Collected: 09/22/22 11:10

Client ID: RW-1

Date Received: 09/22/22 Field Prep: Sample Location: LAGRANGE, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260C Analytical Date: 10/04/22 11:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westboro	ugh Lab						
Tetrachloroethene	ND		ug/l	20	7.2	40	
Vinyl chloride	860		ug/l	40	2.8	40	
Trichloroethene	ND		ug/l	20	7.0	40	
cis-1,2-Dichloroethene	4600		ug/l	100	28.	40	

Surrogate	% Recovery	Qualifier	Acceptance Criteria	
1,2-Dichloroethane-d4	108		70-130	
Toluene-d8	99		70-130	
4-Bromofluorobenzene	98		70-130	
Dibromofluoromethane	114		70-130	



10/05/22

Report Date:

Project Name: Lab Number: APPLE VALLEY SHOPPING CENTER L2252405

Project Number: 23008

SAMPLE RESULTS

Lab ID: L2252405-02 D Date Collected: 09/22/22 11:20

Client ID: RW-2

Date Received: 09/22/22 Field Prep: Sample Location: LAGRANGE, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260C Analytical Date: 10/04/22 11:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westboro	ugh Lab						
Tetrachloroethene	620		ug/l	2.5	0.90	5	
Vinyl chloride	4.1	J	ug/l	5.0	0.36	5	
Trichloroethene	89		ug/l	2.5	0.88	5	
cis-1,2-Dichloroethene	140		ug/l	12	3.5	5	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	102	70-130	
Dibromofluoromethane	110	70-130	



10/05/22

Report Date:

Project Name: Lab Number: APPLE VALLEY SHOPPING CENTER L2252405

Project Number: 23008

SAMPLE RESULTS

Lab ID: L2252405-03 D Date Collected: 09/22/22 11:30

Client ID: RW-3

Date Received: 09/22/22 Field Prep: Sample Location: LAGRANGE, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260C Analytical Date: 10/04/22 12:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - Westl	oorough Lab						
Tetrachloroethene	210		ug/l	1.0	0.36	2	
Vinyl chloride	ND		ug/l	2.0	0.14	2	
Trichloroethene	17		ug/l	1.0	0.35	2	
cis-1,2-Dichloroethene	25		ug/l	5.0	1.4	2	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	103	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	99	70-130	
Dibromofluoromethane	114	70-130	



10/05/22

Report Date:

Project Name: Lab Number: APPLE VALLEY SHOPPING CENTER L2252405

Project Number: 23008

SAMPLE RESULTS

Lab ID: L2252405-04 D Date Collected: 09/22/22 11:40

Client ID: AV-2

Date Received: 09/22/22 Field Prep: Sample Location: LAGRANGE, NY Not Specified

Sample Depth:

Matrix: Water Analytical Method: 1,8260C Analytical Date: 10/04/22 12:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	
Volatile Organics by GC/MS - W	estborough Lab						
Tetrachloroethene	200		ug/l	1.2	0.45	2.5	
Vinyl chloride	ND		ug/l	2.5	0.18	2.5	
Trichloroethene	17		ug/l	1.2	0.44	2.5	
cis-1,2-Dichloroethene	17		ug/l	6.2	1.8	2.5	

Surrogate	% Recovery	Acceptance Qualifier Criteria	
1,2-Dichloroethane-d4	104	70-130	
Toluene-d8	100	70-130	
4-Bromofluorobenzene	101	70-130	
Dibromofluoromethane	114	70-130	



Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252405

Project Number: 23008 Report Date: 10/05/22

SAMPLE RESULTS

Lab ID: L2252405-05 Date Collected: 09/22/22 12:00

Client ID: AVS-EFF Date Received: 09/22/22 Sample Location: LAGRANGE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/04/22 13:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor			
Volatile Organics by GC/MS - Westborough 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	106	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	101	70-130
Dibromofluoromethane	116	70-130



10/05/22

Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252405

Project Number: 23008

SAMPLE RESULTS

_ _ _ ...

Report Date:

 Lab ID:
 L2252405-06
 Date Collected:
 09/22/22 00:00

 Client ID:
 TB09222022
 Date Received:
 09/22/22

 Sample Location:
 LAGRANGE, NY
 Field Prep:
 Not Specified

Sample Depth:

Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 10/04/22 13:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor				
Volatile Organics by GC/MS - Westborough 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	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130
Dibromofluoromethane	112	70-130



Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252405

Project Number: 23008 Report Date: 10/05/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C Analytical Date: 10/04/22 08:28

Parameter	Result C	Qualifier Units	RL	MDL	
Volatile Organics by GC/MS	- Westborough Lab fo	or sample(s): (01-06 Batch:	WG1695609-5	
Tetrachloroethene	ND	ug/l	0.50	0.18	
Vinyl chloride	ND	ug/l	1.0	0.07	
Trichloroethene	ND	ug/l	0.50	0.18	
cis-1,2-Dichloroethene	ND	ug/l	2.5	0.70	

		Acceptance	
Surrogate	%Recovery Qualifi	er Criteria	
1,2-Dichloroethane-d4	105	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	101	70-130	
Dibromofluoromethane	111	70-130	



Lab Control Sample Analysis Batch Quality Control

Project Name: APPLE VALLEY SHOPPING CENTER

Project Number: 23008 Lab Number: L2252405

Report Date: 10/05/22

Parameter	LCS %Recovery	Qual		.CSD ecovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	
Volatile Organics by GC/MS - Westborough La	ab Associated	sample(s):	01-06	Batch:	WG1695609-3	WG1695609-4				
Tetrachloroethene	100			100		70-130	0		20	
Vinyl chloride	110			110		55-140	0		20	
Trichloroethene	96			99		70-130	3		20	
cis-1,2-Dichloroethene	100			100		70-130	0		20	

	LCS	LCSD	Acceptance
Surrogate	%Recovery Qual	%Recovery Qual	Criteria
1,2-Dichloroethane-d4	107	108	70-130
Toluene-d8	103	103	70-130
4-Bromofluorobenzene	99	99	70-130
Dibromofluoromethane	112	112	70-130

Serial_No:10052210:04 *Lab Number:* L2252405

Project Name: APPLE VALLEY SHOPPING CENTER

Project Number: 23008 Report Date: 10/05/22

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

Cooler Custody Seal

A Absent

Container Information			Initial F	Final	Temp			Frozen	
Container ID	Container Type	Cooler		рН	deg C	Pres	Seal	Date/Time	Analysis(*)
L2252405-01A	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-01B	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-01C	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-02A	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-02B	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-02C	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-03A	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-03B	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-03C	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-04A	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-04B	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-04C	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-05A	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-05B	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-05C	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-06A	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)
L2252405-06B	Vial HCl preserved	Α	NA		3.9	Υ	Absent		NYTCL-8260-R2(14)



Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252405

Project Number: 23008 Report Date: 10/05/22

GLOSSARY

Acronyms

DL

EDL

LOQ

MS

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 - Environmental Protection Agency.

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

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

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

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

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

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

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

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

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

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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.

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

and then summing the resulting values.

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

Report Format: DU Report with 'J' Qualifiers



Project Name:APPLE VALLEY SHOPPING CENTERLab Number:L2252405Project Number:23008Report Date:10/05/22

Footnotes

 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 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.
- 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:APPLE VALLEY SHOPPING CENTERLab Number:L2252405Project Number:23008Report Date:10/05/22

Data Qualifiers

Identified Compounds (TICs).

- $\label{eq:main_equation} \textbf{M} \qquad \text{-Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.}$
- 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.
- ${f P}$ 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:APPLE VALLEY SHOPPING CENTERLab Number:L2252405Project Number:23008Report Date:10/05/22

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

ID No.:17873 Revision 19

Page 1 of 1

Published Date: 4/2/2021 1:14:23 PM

Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene;

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

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

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

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

Non-Potable Water

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

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

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

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

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

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ANALYTICAL REPORT

Lab Number: L2252399

Client: Sterling Environmental Engineering

24 Wade Road Latham, NY 12110

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

Project Name: APPLE VALLEY SHOPPING CENTER

Project Number: 23008
Report Date: 10/06/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical 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-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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



Project Name: APPLE VALLEY SHOPPING CENTER

Project Number: 23008

Lab Number:

L2252399

Report Date:

10/06/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2252399-01	SSDS-E	SOIL_VAPOR	LAGRANGE, NY	09/22/22 15:22	09/22/22
L2252399-02	SSDS-W	SOIL_VAPOR	LAGRANGE, NY	09/22/22 15:32	09/22/22
L2252399-03	UNUSED CAN #696	SOIL_VAPOR	LAGRANGE, NY		09/22/22



Serial No:10062211:30

Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252399

Project Number: 23008 Report Date: 10/06/22

Case Narrative

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

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

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

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

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

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



Serial_No:10062211:30

Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252399

Project Number: 23008 Report Date: 10/06/22

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on September 15, 2022. The canister certification results are provided as an addendum.

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.

hulyhm Jennifer Jerome

Authorized Signature:

Title: Technical Director/Representative Date: 10/06/22

AIR



Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252399

Project Number: 23008 Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: Date Collected: 09/22/22 15:22

Client ID: SSDS-E Date Received: 09/22/22 Sample Location: LAGRANGE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor Anaytical Method: 48,TO-15 Analytical Date: 10/05/22 01:02

Analyst: TJS

Parameter	ppbV			ug/m3				Dilution
	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mar	nsfield Lab							
Dichlorodifluoromethane	0.566	0.200		2.80	0.989			1
Chloromethane	ND	0.200		ND	0.413			1
Freon-114	ND	0.200		ND	1.40			1
Vinyl chloride	ND	0.200		ND	0.511			1
1,3-Butadiene	ND	0.200		ND	0.442			1
Bromomethane	ND	0.200		ND	0.777			1
Chloroethane	ND	0.200		ND	0.528			1
Ethanol	13.9	5.00		26.2	9.42			1
Vinyl bromide	ND	0.200		ND	0.874			1
Acetone	45.8	1.00		109	2.38			1
Trichlorofluoromethane	0.260	0.200		1.46	1.12			1
Isopropanol	3.35	0.500		8.23	1.23			1
1,1-Dichloroethene	ND	0.200		ND	0.793			1
Tertiary butyl Alcohol	9.59	0.500		29.1	1.52			1
Methylene chloride	ND	0.500		ND	1.74			1
3-Chloropropene	ND	0.200		ND	0.626			1
Carbon disulfide	0.506	0.200		1.58	0.623			1
Freon-113	ND	0.200		ND	1.53			1
trans-1,2-Dichloroethene	ND	0.200		ND	0.793			1
1,1-Dichloroethane	ND	0.200		ND	0.809			1
Methyl tert butyl ether	ND	0.200		ND	0.721			1
2-Butanone	1.87	0.500		5.52	1.47			1
cis-1,2-Dichloroethene	ND	0.200		ND	0.793			1



Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252399

Project Number: 23008 Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2252399-01 Date Collected: 09/22/22 15:22

Client ID: SSDS-E Date Received: 09/22/22 Sample Location: LAGRANGE, NY Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3				Dilution
	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Man	sfield Lab							
Ethyl Acetate	ND	0.500		ND	1.80			1
Chloroform	ND	0.200		ND	0.977			1
Tetrahydrofuran	ND	0.500		ND	1.47			1
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	0.312	0.200		1.10	0.705			1
1,1,1-Trichloroethane	ND	0.200		ND	1.09			1
Benzene	1.73	0.200		5.53	0.639			1
Carbon tetrachloride	ND	0.200		ND	1.26			1
Cyclohexane	0.266	0.200		0.916	0.688			1
1,2-Dichloropropane	ND	0.200		ND	0.924			1
Bromodichloromethane	ND	0.200		ND	1.34			1
1,4-Dioxane	ND	0.200		ND	0.721			1
Trichloroethene	0.230	0.200		1.24	1.07			1
2,2,4-Trimethylpentane	ND	0.200		ND	0.934			1
Heptane	2.28	0.200		9.34	0.820			1
cis-1,3-Dichloropropene	ND	0.200		ND	0.908			1
4-Methyl-2-pentanone	ND	0.500		ND	2.05			1
trans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
1,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Toluene	0.803	0.200		3.03	0.754			1
2-Hexanone	0.271	0.200		1.11	0.820			1
Dibromochloromethane	ND	0.200		ND	1.70			1
1,2-Dibromoethane	ND	0.200		ND	1.54			1
Tetrachloroethene	10.5	0.200		71.2	1.36			1
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	0.241	0.200		1.05	0.869			1



Project Number: 23008 Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2252399-01 Date Collected: 09/22/22 15:22

Client ID: SSDS-E Date Received: 09/22/22 Sample Location: LAGRANGE, NY Field Prep: Not Specified

	ppbV ug/m3				Dilution		
Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
d Lab							
0.929	0.400		4.04	1.74			1
ND	0.200		ND	2.07			1
0.389	0.200		1.66	0.852			1
ND	0.200		ND	1.37			1
0.580	0.200		2.52	0.869			1
ND	0.200		ND	0.983			1
ND	0.200		ND	0.983			1
0.286	0.200		1.41	0.983			1
ND	0.200		ND	1.04			1
ND	0.200		ND	1.20			1
ND	0.200		ND	1.20			1
ND	0.200		ND	1.20			1
ND	0.200		ND	1.48			1
ND	0.200		ND	2.13			1
	0.929 ND 0.389 ND 0.580 ND	Results RL	Results RL MDL	Results RL MDL Results Id Lab 0.929 0.400 4.04 ND 0.200 ND 0.389 0.200 ND 0.580 0.200 ND 0.580 0.200 ND ND 0.200 ND	Results RL MDL Results RL Id Lab 0.929 0.400 4.04 1.74 ND 0.200 ND 2.07 0.389 0.200 ND 1.37 0.580 0.200 ND 1.37 0.580 0.200 ND 0.983 ND 0.200 ND 0.983 ND 0.200 ND 1.04 ND 0.200 ND 1.20 ND 0.200 ND 1.48	Results RL MDL Results RL MDL Id Lab 0.929 0.400 4.04 1.74 ND 0.200 ND 2.07 0.389 0.200 ND 1.37 ND 0.200 ND 1.37 0.580 0.200 ND 0.983 ND 0.200 ND 0.983 ND 0.200 ND 0.983 ND 0.200 ND 1.04 ND 0.200 ND 1.04 ND 0.200 ND 1.20 ND 0.200 ND 1.20 ND 0.200 ND 1.20 ND 0.200 ND 1.48 -	Results RL MDL Results RL MDL Qualifier Id Lab 0.929 0.400 4.04 1.74 ND 0.200 ND 2.07 0.389 0.200 ND 0.852 ND 0.200 ND 1.37 ND 0.580 0.200 ND 0.983 ND 0.200 ND 0.983 ND 0.286 0.200 ND 1.04 ND 0.200 ND 1.04 ND 0.200 ND 1.20 ND 0.200 ND 1.20 ND 0.200 ND 1.20 ND 0.200 ND <t< td=""></t<>

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	99		60-140



Project Number: 23008 Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: Date Collected: 09/22/22 15:32

Client ID: SSDS-W Date Received: 09/22/22 Sample Location: LAGRANGE, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor Anaytical Method: 48,TO-15 Analytical Date: 10/05/22 01:48

Analyst: TJS

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mar	nsfield Lab							
Dichlorodifluoromethane	0.572	0.200		2.83	0.989			1
Chloromethane	ND	0.200		ND	0.413			1
Freon-114	ND	0.200		ND	1.40			1
Vinyl chloride	ND	0.200		ND	0.511			1
1,3-Butadiene	ND	0.200		ND	0.442			1
Bromomethane	ND	0.200		ND	0.777			1
Chloroethane	ND	0.200		ND	0.528			1
Ethanol	25.2	5.00		47.5	9.42			1
Vinyl bromide	ND	0.200		ND	0.874			1
Acetone	9.59	1.00		22.8	2.38			1
Trichlorofluoromethane	0.286	0.200		1.61	1.12			1
Isopropanol	1.02	0.500		2.51	1.23			1
1,1-Dichloroethene	ND	0.200		ND	0.793			1
Tertiary butyl Alcohol	14.5	0.500		44.0	1.52			1
Methylene chloride	ND	0.500		ND	1.74			1
3-Chloropropene	ND	0.200		ND	0.626			1
Carbon disulfide	0.361	0.200		1.12	0.623			1
Freon-113	ND	0.200		ND	1.53			1
trans-1,2-Dichloroethene	ND	0.200		ND	0.793			1
1,1-Dichloroethane	ND	0.200		ND	0.809			1
Methyl tert butyl ether	ND	0.200		ND	0.721			1
2-Butanone	2.02	0.500		5.96	1.47			1
cis-1,2-Dichloroethene	ND	0.200		ND	0.793			1



Project Number: 23008 Report Date: 10/06/22

SAMPLE RESULTS

 Lab ID:
 L2252399-02
 Date Collected:
 09/22/22 15:32

 Client ID:
 SSDS-W
 Date Received:
 09/22/22

Client ID: SSDS-W Date Received: 09/22/22 Sample Location: LAGRANGE, NY Field Prep: Not Specified

		ppbV			ug/m3		Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mans	sfield Lab							
Ethyl Acetate	ND	0.500		ND	1.80			1
Chloroform	3.52	0.200		17.2	0.977			1
Tetrahydrofuran	ND	0.500		ND	1.47			1
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	0.372	0.200		1.31	0.705			1
1,1,1-Trichloroethane	ND	0.200		ND	1.09			1
Benzene	2.32	0.200		7.41	0.639			1
Carbon tetrachloride	ND	0.200		ND	1.26			1
Cyclohexane	0.221	0.200		0.761	0.688			1
1,2-Dichloropropane	ND	0.200		ND	0.924			1
Bromodichloromethane	ND	0.200		ND	1.34			1
1,4-Dioxane	ND	0.200		ND	0.721			1
Trichloroethene	1.44	0.200		7.74	1.07			1
2,2,4-Trimethylpentane	ND	0.200		ND	0.934			1
Heptane	2.20	0.200		9.02	0.820			1
cis-1,3-Dichloropropene	ND	0.200		ND	0.908			1
4-Methyl-2-pentanone	ND	0.500		ND	2.05			1
trans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
1,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Toluene	0.445	0.200		1.68	0.754			1
2-Hexanone	0.223	0.200		0.914	0.820			1
Dibromochloromethane	ND	0.200		ND	1.70			1
1,2-Dibromoethane	ND	0.200		ND	1.54			1
Tetrachloroethene	76.9	0.200		521	1.36			1
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	ND	0.200		ND	0.869			1



Project Number: 23008 Report Date: 10/06/22

SAMPLE RESULTS

Lab ID: L2252399-02 Date Collected: 09/22/22 15:32

Client ID: SSDS-W Date Received: 09/22/22 Sample Location: LAGRANGE, NY Field Prep: Not Specified

	ppbV ug/m3				Dilution		
Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
d Lab							
0.555	0.400		2.41	1.74			1
ND	0.200		ND	2.07			1
0.285	0.200		1.21	0.852			1
ND	0.200		ND	1.37			1
0.338	0.200		1.47	0.869			1
ND	0.200		ND	0.983			1
ND	0.200		ND	0.983			1
0.273	0.200		1.34	0.983			1
ND	0.200		ND	1.04			1
ND	0.200		ND	1.20			1
ND	0.200		ND	1.20			1
ND	0.200		ND	1.20			1
ND	0.200		ND	1.48			1
ND	0.200		ND	2.13			1
	0.555 ND 0.285 ND 0.338 ND ND 0.273 ND	Results RL d Lab 0.555 0.400 ND 0.200 0.285 0.200 ND 0.200	Results RL MDL d Lab 0.555 0.400 ND 0.200 0.285 0.200 ND 0.200	Results RL MDL Results d Lab 0.555 0.400 2.41 ND 0.200 ND 0.285 0.200 ND 0.338 0.200 ND ND 0.200 ND	Results RL MDL Results RL 0.555 0.400 2.41 1.74 ND 0.200 ND 2.07 0.285 0.200 ND 1.37 0.338 0.200 ND 1.37 0.338 0.200 ND 0.983 ND 0.200 ND 0.983 ND 0.200 ND 0.983 ND 0.200 ND 1.04 ND 0.200 ND 1.20 ND 0.200 ND 1.48	Results RL MDL Results RL MDL d Lab 0.555 0.400 2.41 1.74 ND 0.200 ND 2.07 0.285 0.200 ND 1.37 ND 0.200 ND 1.37 0.338 0.200 ND 0.983 ND 0.200 ND 0.983 ND 0.200 ND 0.983 ND 0.200 ND 1.04 ND 0.200 ND 1.04 ND 0.200 ND 1.20 ND 0.200 ND 1.20 ND 0.200 ND 1.20 ND 0.200 ND 1.48	Results RL MDL Results RL MDL Qualifier d Lab 0.555 0.400 2.41 1.74 ND 0.200 ND 2.07 0.285 0.200 ND 0.852 ND 0.200 ND 1.37 ND 0.200 ND 0.983 ND 0.200 ND 0.983 ND 0.200 ND 1.04 ND 0.200 ND 1.04 ND 0.200 ND 1.20 ND 0.200 ND 1.20 ND 0.200 ND 1.20 ND 0.200 ND 1.20 ND 0.200 N

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	96		60-140



Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252399

Project Number: 23008 Report Date: 10/06/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15 Analytical Date: 10/04/22 17:00

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfie	ld Lab for samp	ole(s): 01	-02 Batch:	: WG16954	139-4			
Dichlorodifluoromethane	ND	0.200		ND	0.989			1
Chloromethane	ND	0.200		ND	0.413			1
Freon-114	ND	0.200		ND	1.40			1
Vinyl chloride	ND	0.200		ND	0.511			1
1,3-Butadiene	ND	0.200		ND	0.442			1
Bromomethane	ND	0.200		ND	0.777			1
Chloroethane	ND	0.200		ND	0.528			1
Ethanol	ND	5.00		ND	9.42			1
Vinyl bromide	ND	0.200		ND	0.874			1
Acetone	ND	1.00		ND	2.38			1
Trichlorofluoromethane	ND	0.200		ND	1.12			1
Isopropanol	ND	0.500		ND	1.23			1
1,1-Dichloroethene	ND	0.200		ND	0.793			1
Tertiary butyl Alcohol	ND	0.500		ND	1.52			1
Methylene chloride	ND	0.500		ND	1.74			1
3-Chloropropene	ND	0.200		ND	0.626			1
Carbon disulfide	ND	0.200		ND	0.623			1
Freon-113	ND	0.200		ND	1.53			1
trans-1,2-Dichloroethene	ND	0.200		ND	0.793			1
1,1-Dichloroethane	ND	0.200		ND	0.809			1
Methyl tert butyl ether	ND	0.200		ND	0.721			1
2-Butanone	ND	0.500		ND	1.47			1
cis-1,2-Dichloroethene	ND	0.200		ND	0.793			1
Ethyl Acetate	ND	0.500		ND	1.80			1
Chloroform	ND	0.200		ND	0.977			1



Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252399

Project Number: 23008 Report Date: 10/06/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15 Analytical Date: 10/04/22 17:00

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfie	eld Lab for samp	ole(s): 01	-02 Batch	: WG16954	39-4			
Tetrahydrofuran	ND	0.500		ND	1.47			1
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	ND	0.200		ND	0.705			1
1,1,1-Trichloroethane	ND	0.200		ND	1.09			1
Benzene	ND	0.200		ND	0.639			1
Carbon tetrachloride	ND	0.200		ND	1.26			1
Cyclohexane	ND	0.200		ND	0.688			1
1,2-Dichloropropane	ND	0.200		ND	0.924			1
Bromodichloromethane	ND	0.200		ND	1.34			1
1,4-Dioxane	ND	0.200		ND	0.721			1
Trichloroethene	ND	0.200		ND	1.07			1
2,2,4-Trimethylpentane	ND	0.200		ND	0.934			1
Heptane	ND	0.200		ND	0.820			1
cis-1,3-Dichloropropene	ND	0.200		ND	0.908			1
4-Methyl-2-pentanone	ND	0.500		ND	2.05			1
trans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
1,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Toluene	ND	0.200		ND	0.754			1
2-Hexanone	ND	0.200		ND	0.820			1
Dibromochloromethane	ND	0.200		ND	1.70			1
1,2-Dibromoethane	ND	0.200		ND	1.54			1
Tetrachloroethene	ND	0.200		ND	1.36			1
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	ND	0.200		ND	0.869			1
p/m-Xylene	ND	0.400		ND	1.74			1



Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252399

Project Number: 23008 Report Date: 10/06/22

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15 Analytical Date: 10/04/22 17:00

		ppbV			ug/m3			Dilution
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfi	eld Lab for samp	le(s): 01-	-02 Batch	n: WG16954	39-4			
Bromoform	ND	0.200		ND	2.07			1
Styrene	ND	0.200		ND	0.852			1
1,1,2,2-Tetrachloroethane	ND	0.200		ND	1.37			1
o-Xylene	ND	0.200		ND	0.869			1
4-Ethyltoluene	ND	0.200		ND	0.983			1
1,3,5-Trimethylbenzene	ND	0.200		ND	0.983			1
1,2,4-Trimethylbenzene	ND	0.200		ND	0.983			1
Benzyl chloride	ND	0.200		ND	1.04			1
1,3-Dichlorobenzene	ND	0.200		ND	1.20			1
1,4-Dichlorobenzene	ND	0.200		ND	1.20			1
1,2-Dichlorobenzene	ND	0.200		ND	1.20			1
1,2,4-Trichlorobenzene	ND	0.200		ND	1.48			1
Hexachlorobutadiene	ND	0.200		ND	2.13			1



Lab Control Sample Analysis Batch Quality Control

Project Name: APPLE VALLEY SHOPPING CENTER

Project Number: 23008

Lab Number: L2252399

Report Date: 10/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Ass	sociated sample(s):	01-02	Batch: WG169543	39-3				
Dichlorodifluoromethane	106		-		70-130	-		
Chloromethane	112		-		70-130	-		
Freon-114	114		-		70-130	-		
Vinyl chloride	104		-		70-130	-		
1,3-Butadiene	116		-		70-130	-		
Bromomethane	103		-		70-130	-		
Chloroethane	98		-		70-130	-		
Ethanol	125		-		40-160	-		
Vinyl bromide	95		-		70-130	-		
Acetone	108		-		40-160	-		
Trichlorofluoromethane	114		-		70-130	-		
Isopropanol	104		-		40-160	-		
1,1-Dichloroethene	96		-		70-130	-		
Tertiary butyl Alcohol	96		-		70-130	-		
Methylene chloride	95		-		70-130	-		
3-Chloropropene	86		-		70-130	-		
Carbon disulfide	80		-		70-130	-		
Freon-113	91		-		70-130	-		
trans-1,2-Dichloroethene	87		-		70-130	-		
1,1-Dichloroethane	89		-		70-130	-		
Methyl tert butyl ether	93		-		70-130	-		
2-Butanone	93		-		70-130	-		
cis-1,2-Dichloroethene	92		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: APPLE VALLEY SHOPPING CENTER

Project Number: 23008

Lab Number: L2252399

Report Date: 10/06/22

arameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
olatile Organics in Air - Mansfield Lab Asso	ociated sample(s):	01-02	Batch: WG169543	39-3				
Ethyl Acetate	95		-		70-130	-		
Chloroform	102		-		70-130	-		
Tetrahydrofuran	87		-		70-130	-		
1,2-Dichloroethane	95		-		70-130	-		
n-Hexane	99		-		70-130	-		
1,1,1-Trichloroethane	102		-		70-130	-		
Benzene	95		-		70-130	-		
Carbon tetrachloride	111		-		70-130	-		
Cyclohexane	98		-		70-130	-		
1,2-Dichloropropane	96		-		70-130	-		
Bromodichloromethane	110		-		70-130	-		
1,4-Dioxane	106		-		70-130	-		
Trichloroethene	98		-		70-130	-		
2,2,4-Trimethylpentane	98		-		70-130	-		
Heptane	100		-		70-130	-		
cis-1,3-Dichloropropene	108		-		70-130	-		
4-Methyl-2-pentanone	107		-		70-130	-		
trans-1,3-Dichloropropene	94		-		70-130	-		
1,1,2-Trichloroethane	99		-		70-130	-		
Toluene	82		-		70-130	-		
2-Hexanone	97		-		70-130	-		
Dibromochloromethane	95		-		70-130	-		
1,2-Dibromoethane	96		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: APPLE VALLEY SHOPPING CENTER

Project Number: 23008

Lab Number: L2252399

Report Date: 10/06/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
olatile Organics in Air - Mansfield Lab	Associated sample(s):	01-02	Batch: WG169543	39-3				
Tetrachloroethene	96		-		70-130	-		
Chlorobenzene	95		-		70-130	-		
Ethylbenzene	89		-		70-130	-		
p/m-Xylene	92		-		70-130	-		
Bromoform	101		-		70-130	-		
Styrene	93		-		70-130	-		
1,1,2,2-Tetrachloroethane	101		-		70-130	-		
o-Xylene	95		-		70-130	-		
4-Ethyltoluene	91		-		70-130	-		
1,3,5-Trimethylbenzene	94		-		70-130	-		
1,2,4-Trimethylbenzene	101		-		70-130	-		
Benzyl chloride	97		-		70-130	-		
1,3-Dichlorobenzene	104		-		70-130	-		
1,4-Dichlorobenzene	98		-		70-130	-		
1,2-Dichlorobenzene	102		-		70-130	-		
1,2,4-Trichlorobenzene	104		-		70-130	-		
Hexachlorobutadiene	104		-		70-130	-		



APPLE VALLEY SHOPPING CENTER L2252399

Project Number: 23008 Report Date: 10/06/22

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2252399-01	SSDS-E	01173	Flow 4	09/15/22	399527		-	-	-	Pass	10.0	9.3	7
L2252399-01	SSDS-E	3625	6.0L Can	09/15/22	399527	L2248284-08	Pass	-28.6	-13.0	-	-	-	-
L2252399-02	SSDS-W	0765	Flow 4	09/15/22	399527		-	-	-	Pass	10.0	9.6	4
L2252399-02	SSDS-W	3942	6.0L Can	09/15/22	399527	L2248284-08	Pass	-28.7	-13.3	-	-	-	-
L2252399-03	UNUSED CAN #696	01657	Flow 4	09/15/22	399527		-	-	-	Pass	10.0	9.6	4
L2252399-03	UNUSED CAN #696	696	6.0L Can	09/15/22	399527	L2248284-08	Pass	-28.8	-29.1	-	-	-	



Project Name:

L2248284

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT Report Date: 10/06/22

Air Canister Certification Results

Lab ID: L2248284-08

Date Collected: 09/07/22 09:00 Client ID: **CAN 811 SHELF 32** Date Received: 09/07/22

Sample Location:

Field Prep: Not Specified

Sample Depth:

Matrix: Air Anaytical Method: 48,TO-15 Analytical Date: 09/08/22 00:35

Analyst: TS

		ppbV			ug/m3		Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfiel	d Lab							
Chlorodifluoromethane	ND	0.200		ND	0.707			1
Propylene	ND	0.500		ND	0.861			1
Propane	ND	0.500		ND	0.902			1
Dichlorodifluoromethane	ND	0.200		ND	0.989			1
Chloromethane	ND	0.200		ND	0.413			1
Freon-114	ND	0.200		ND	1.40			1
Methanol	ND	5.00		ND	6.55			1
Vinyl chloride	ND	0.200		ND	0.511			1
1,3-Butadiene	ND	0.200		ND	0.442			1
Butane	ND	0.200		ND	0.475			1
Bromomethane	ND	0.200		ND	0.777			1
Chloroethane	ND	0.200		ND	0.528			1
Ethanol	ND	5.00		ND	9.42			1
Dichlorofluoromethane	ND	0.200		ND	0.842			1
Vinyl bromide	ND	0.200		ND	0.874			1
Acrolein	ND	0.500		ND	1.15			1
Acetone	ND	1.00		ND	2.38			1
Acetonitrile	ND	0.200		ND	0.336			1
Trichlorofluoromethane	ND	0.200		ND	1.12			1
Isopropanol	ND	0.500		ND	1.23			1
Acrylonitrile	ND	0.500		ND	1.09			1
Pentane	ND	0.200		ND	0.590			1
Ethyl ether	ND	0.200		ND	0.606			1
1,1-Dichloroethene	ND	0.200		ND	0.793			1



L2248284

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 10/06/22

Air Canister Certification Results

Lab ID: L2248284-08

Date Collected: 09/07/22 09:00 Client ID: **CAN 811 SHELF 32** Date Received: 09/07/22

Sample Location:

Field Prep: Not Specified

Запріє Бериі.		ppbV		ug/m3			Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfield Lab)							
Tertiary butyl Alcohol	ND	0.500		ND	1.52			1
Methylene chloride	ND	0.500		ND	1.74			1
3-Chloropropene	ND	0.200		ND	0.626			1
Carbon disulfide	ND	0.200		ND	0.623			1
Freon-113	ND	0.200		ND	1.53			1
trans-1,2-Dichloroethene	ND	0.200		ND	0.793			1
1,1-Dichloroethane	ND	0.200		ND	0.809			1
Methyl tert butyl ether	ND	0.200		ND	0.721			1
Vinyl acetate	ND	1.00		ND	3.52			1
Xylenes, total	ND	0.600		ND	0.869			1
2-Butanone	ND	0.500		ND	1.47			1
cis-1,2-Dichloroethene	ND	0.200		ND	0.793			1
Ethyl Acetate	ND	0.500		ND	1.80			1
Chloroform	ND	0.200		ND	0.977			1
Tetrahydrofuran	ND	0.500		ND	1.47			1
2,2-Dichloropropane	ND	0.200		ND	0.924			1
1,2-Dichloroethane	ND	0.200		ND	0.809			1
n-Hexane	ND	0.200		ND	0.705			1
Diisopropyl ether	ND	0.200		ND	0.836			1
tert-Butyl Ethyl Ether	ND	0.200		ND	0.836			1
1,2-Dichloroethene (total)	ND	1.00		ND	1.00			1
1,1,1-Trichloroethane	ND	0.200		ND	1.09			1
1,1-Dichloropropene	ND	0.200		ND	0.908			1
Benzene	ND	0.200		ND	0.639			1
Carbon tetrachloride	ND	0.200		ND	1.26			1
Cyclohexane	ND	0.200		ND	0.688			1
tert-Amyl Methyl Ether	ND	0.200		ND	0.836			1



L2248284

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 10/06/22

Air Canister Certification Results

Lab ID: L2248284-08

Date Collected: 09/07/22 09:00 Client ID: **CAN 811 SHELF 32** Date Received: 09/07/22

Sample Location:

Field Prep: Not Specified

Campie Beptii.		ppbV		ug/m3			Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansfield La	b							
Dibromomethane	ND	0.200		ND	1.42			1
1,2-Dichloropropane	ND	0.200		ND	0.924			1
Bromodichloromethane	ND	0.200		ND	1.34			1
1,4-Dioxane	ND	0.200		ND	0.721			1
Trichloroethene	ND	0.200		ND	1.07			1
2,2,4-Trimethylpentane	ND	0.200		ND	0.934			1
Methyl Methacrylate	ND	0.500		ND	2.05			1
Heptane	ND	0.200		ND	0.820			1
cis-1,3-Dichloropropene	ND	0.200		ND	0.908			1
4-Methyl-2-pentanone	ND	0.500		ND	2.05			1
trans-1,3-Dichloropropene	ND	0.200		ND	0.908			1
1,1,2-Trichloroethane	ND	0.200		ND	1.09			1
Toluene	ND	0.200		ND	0.754			1
1,3-Dichloropropane	ND	0.200		ND	0.924			1
2-Hexanone	ND	0.200		ND	0.820			1
Dibromochloromethane	ND	0.200		ND	1.70			1
1,2-Dibromoethane	ND	0.200		ND	1.54			1
Butyl acetate	ND	0.500		ND	2.38			1
Octane	ND	0.200		ND	0.934			1
Tetrachloroethene	ND	0.200		ND	1.36			1
1,1,1,2-Tetrachloroethane	ND	0.200		ND	1.37			1
Chlorobenzene	ND	0.200		ND	0.921			1
Ethylbenzene	ND	0.200		ND	0.869			1
p/m-Xylene	ND	0.400		ND	1.74			1
Bromoform	ND	0.200		ND	2.07			1
Styrene	ND	0.200		ND	0.852			1
1,1,2,2-Tetrachloroethane	ND	0.200		ND	1.37			1



L2248284

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 10/06/22

Air Canister Certification Results

Lab ID: L2248284-08

Date Collected: 09/07/22 09:00 Client ID: **CAN 811 SHELF 32** Date Received: 09/07/22

Sample Location:

Field Prep: Not Specified

		ppbV			ug/m3		Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air - Mansf	ield Lab							
o-Xylene	ND	0.200		ND	0.869			1
1,2,3-Trichloropropane	ND	0.200		ND	1.21			1
Nonane	ND	0.200		ND	1.05			1
sopropylbenzene	ND	0.200		ND	0.983			1
Bromobenzene	ND	0.200		ND	0.793			1
2-Chlorotoluene	ND	0.200		ND	1.04			1
n-Propylbenzene	ND	0.200		ND	0.983			1
1-Chlorotoluene	ND	0.200		ND	1.04			1
1-Ethyltoluene	ND	0.200		ND	0.983			1
1,3,5-Trimethylbenzene	ND	0.200		ND	0.983			1
ert-Butylbenzene	ND	0.200		ND	1.10			1
1,2,4-Trimethylbenzene	ND	0.200		ND	0.983			1
Decane	ND	0.200		ND	1.16			1
Benzyl chloride	ND	0.200		ND	1.04			1
1,3-Dichlorobenzene	ND	0.200		ND	1.20			1
1,4-Dichlorobenzene	ND	0.200		ND	1.20			1
sec-Butylbenzene	ND	0.200		ND	1.10			1
o-Isopropyltoluene	ND	0.200		ND	1.10			1
1,2-Dichlorobenzene	ND	0.200		ND	1.20			1
n-Butylbenzene	ND	0.200		ND	1.10			1
1,2-Dibromo-3-chloropropane	ND	0.200		ND	1.93			1
Jndecane	ND	0.200		ND	1.28			1
Dodecane	ND	0.200		ND	1.39			1
,2,4-Trichlorobenzene	ND	0.200		ND	1.48			1
Naphthalene	ND	0.200		ND	1.05			1
,2,3-Trichlorobenzene	ND	0.200		ND	1.48			1
Hexachlorobutadiene	ND	0.200		ND	2.13			1



Project Name: BATCH CANISTER CERTIFICATION Lab Number: L2248284

Project Number: CANISTER QC BAT Report Date: 10/06/22

Air Canister Certification Results

Lab ID: L2248284-08

Client ID: CAN 811 SHELF 32

Sample Location:

Date Collected:

09/07/22 09:00

Date Received:

09/07/22

Field Prep:

Not Specified

Sample Depth:

Parameter Results RL MDL Results RL MDL Qualifier Factor

Volatile Organics in Air - Mansfield Lab

Dilution
Results Qualifier Units RDL Factor

Tentatively Identified Compounds

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	95		60-140



L2248284

Project Name: BATCH CANISTER CERTIFICATION Lab Number:

Project Number: CANISTER QC BAT Report Date: 10/06/22

Air Canister Certification Results

Lab ID: L2248284-08

Date Collected: 09/07/22 09:00 Client ID: **CAN 811 SHELF 32** Date Received: 09/07/22

Sample Location: Field Prep: Not Specified

Sample Depth:

Matrix: Air

Anaytical Method: 48,TO-15-SIM Analytical Date: 09/08/22 00:35

Analyst: TS

		ppbV			ug/m3		Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM	- Mansfield Lab							
Dichlorodifluoromethane	ND	0.200		ND	0.989			1
Chloromethane	ND	0.200		ND	0.413			1
Freon-114	ND	0.050		ND	0.349			1
Vinyl chloride	ND	0.020		ND	0.051			1
1,3-Butadiene	ND	0.020		ND	0.044			1
Bromomethane	ND	0.020		ND	0.078			1
Chloroethane	ND	0.100		ND	0.264			1
Acrolein	ND	0.050		ND	0.115			1
Acetone	ND	1.00		ND	2.38			1
Trichlorofluoromethane	ND	0.050		ND	0.281			1
Acrylonitrile	ND	0.500		ND	1.09			1
1,1-Dichloroethene	ND	0.020		ND	0.079			1
Methylene chloride	ND	0.500		ND	1.74			1
Freon-113	ND	0.050		ND	0.383			1
trans-1,2-Dichloroethene	ND	0.020		ND	0.079			1
1,1-Dichloroethane	ND	0.020		ND	0.081			1
Methyl tert butyl ether	ND	0.200		ND	0.721			1
2-Butanone	ND	0.500		ND	1.47			1
cis-1,2-Dichloroethene	ND	0.020		ND	0.079			1
Chloroform	ND	0.020		ND	0.098			1
1,2-Dichloroethane	ND	0.020		ND	0.081			1
1,1,1-Trichloroethane	ND	0.020		ND	0.109			1
Benzene	ND	0.100		ND	0.319			1
Carbon tetrachloride	ND	0.020		ND	0.126			1



L2248284

Not Specified

Lab Number:

Project Name: BATCH CANISTER CERTIFICATION

Project Number: CANISTER QC BAT **Report Date:** 10/06/22

Air Canister Certification Results

Lab ID: L2248284-08

Date Collected: 09/07/22 09:00 Client ID: **CAN 811 SHELF 32** Date Received: 09/07/22

Sample Location: Field Prep:

Затріє Берті.		ppbV		ug/m3			Dilution	
Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier	Factor
Volatile Organics in Air by SIM - Mans	sfield Lab							
1,2-Dichloropropane	ND	0.020		ND	0.092			1
Bromodichloromethane	ND	0.020		ND	0.134			1
1,4-Dioxane	ND	0.100		ND	0.360			1
Trichloroethene	ND	0.020		ND	0.107			1
cis-1,3-Dichloropropene	ND	0.020		ND	0.091			1
4-Methyl-2-pentanone	ND	0.500		ND	2.05			1
trans-1,3-Dichloropropene	ND	0.020		ND	0.091			1
1,1,2-Trichloroethane	ND	0.020		ND	0.109			1
Toluene	ND	0.100		ND	0.377			1
Dibromochloromethane	ND	0.020		ND	0.170			1
1,2-Dibromoethane	ND	0.020		ND	0.154			1
Tetrachloroethene	ND	0.020		ND	0.136			1
1,1,1,2-Tetrachloroethane	ND	0.020		ND	0.137			1
Chlorobenzene	ND	0.100		ND	0.461			1
Ethylbenzene	ND	0.020		ND	0.087			1
o/m-Xylene	ND	0.040		ND	0.174			1
Bromoform	ND	0.020		ND	0.207			1
Styrene	ND	0.020		ND	0.085			1
1,1,2,2-Tetrachloroethane	ND	0.020		ND	0.137			1
o-Xylene	ND	0.020		ND	0.087			1
Isopropylbenzene	ND	0.200		ND	0.983			1
4-Ethyltoluene	ND	0.020		ND	0.098			1
1,3,5-Trimethybenzene	ND	0.020		ND	0.098			1
1,2,4-Trimethylbenzene	ND	0.020		ND	0.098			1
Benzyl chloride	ND	0.100		ND	0.518			1
1,3-Dichlorobenzene	ND	0.020		ND	0.120			1
1,4-Dichlorobenzene	ND	0.020		ND	0.120			1



Project Name: BATCH CANISTER CERTIFICATION Lab Number: L2248284

Project Number: CANISTER QC BAT Report Date: 10/06/22

Air Canister Certification Results

Lab ID: L2248284-08

Client ID: CAN 811 SHELF 32

Sample Location:

Date Collected:

09/07/22 09:00

Date Received:

09/07/22

Field Prep:

Not Specified

esults	RL	MDL		•			_
		MDL	Results	RL	MDL	Qualifier	Factor
Lab							
ND	0.200		ND	1.10			1
ND	0.200		ND	1.10			1
ND	0.020		ND	0.120			1
ND	0.200		ND	1.10			1
ND	0.050		ND	0.371			1
ND	0.050		ND	0.262			1
ND	0.050		ND	0.371			1
ND	0.050		ND	0.533			1
	ND ND ND ND ND ND ND ND	ND 0.200 ND 0.200 ND 0.020 ND 0.200 ND 0.050 ND 0.050 ND 0.050	ND 0.200 ND 0.200 ND 0.020 ND 0.200 ND 0.050 ND 0.050 ND 0.050	ND 0.200 ND ND 0.200 ND ND 0.020 ND ND 0.200 ND ND 0.050 ND ND 0.050 ND ND 0.050 ND	ND 0.200 ND 1.10 ND 0.200 ND 1.10 ND 0.020 ND 0.120 ND 0.200 ND 1.10 ND 0.050 ND 0.371 ND 0.050 ND 0.371 ND 0.050 ND 0.371	ND 0.200 ND 1.10 ND 0.200 ND 1.10 ND 0.020 ND 0.120 ND 0.200 ND 1.10 ND 0.050 ND 0.371 ND 0.050 ND 0.371 ND 0.050 ND 0.371	ND 0.200 ND 1.10 ND 0.200 ND 1.10 ND 0.020 ND 0.120 ND 0.200 ND 1.10 ND 0.050 ND 0.371 ND 0.050 ND 0.371 ND 0.050 ND 0.371

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140



Project Name: APPLE VALLEY SHOPPING CENTER

Lab Number: L2252399

Project Number: 23008 Report Date: 10/06/22

Sample Receipt and Container Information

Were project specific reporting limits specified?

Cooler Information

CoolerCustody SealN/APresent/Intact

Container Information					Final	Temp		Frozen	
С	ontainer ID	Container Type	Cooler		pН	deg C Pres	Seal	Date/Time	Analysis(*)
L2	252399-01A	Canister - 6 Liter	N/A	NA		Υ	Absent		TO15-LL(30)
L2	252399-02A	Canister - 6 Liter	N/A	NA		Υ	Absent		TO15-LL(30)
L2	252399-03A	Canister - 6 Liter	N/A	NA		Υ	Absent		CLEAN-FEE()



Project Name: Lab Number: APPLE VALLEY SHOPPING CENTER L2252399

Report Date: Project Number: 23008 10/06/22

GLOSSARY

Acronyms

LOD

LOQ

MS

RPD

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

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

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

of PAHs using Solid-Phase Microextraction (SPME).

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

estimate of the concentration. **EPA** Environmental Protection Agency.

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

LCSD Laboratory Control Sample Duplicate: Refer to LCS.

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

- 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.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

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

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

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

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.

- 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: Data Usability Report



Project Name:APPLE VALLEY SHOPPING CENTERLab Number:L2252399Project Number:23008Report Date:10/06/22

Footnotes

 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 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.
- ${\bf J} \qquad \hbox{-Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs)}.$
- Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name:APPLE VALLEY SHOPPING CENTERLab Number:L2252399Project Number:23008Report Date:10/06/22

Data Qualifiers

- **ND** Not detected at the reporting limit (RL) for the sample.
- 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.)
- 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: Data Usability Report



Project Name: APPLE VALLEY SHOPPING CENTER Lab Number: L2252399

Project Number: 82000 Lab Number: L2252399

Project Number: 23008 Report Date: 10/06/22

REFERENCES

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

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

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



Alpha Analytical, Inc. Facility: Company-wide

Department: Quality Assurance

Title: Certificate/Approval Program Summary

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Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene;

EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

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

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

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

Non-Potable Water

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

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan II, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.

Mansfield Facility:

Drinking Water

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

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

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