ROUX

PROGRESS REPORT

Brownfield Cleanup Program Site No. C360117

Mr. Cleaners-Shrub Oak Shopping Center
1360 East Main Street, Shrub Oak, New York

Period: September 1, 2023 through September 30, 2023

Report Date: October 17, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C360117), dated March 6, 2014, and amended July 21, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the Brownfield Cleanup Program (BCP) activities at the Shrub Oak Shopping Center, located at 1360 East Main Street, Shrub Oak, New York (Site). Shrub Oak Partners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

None.

II. BCP Activities Planned for the Next Reporting Period (October 1, 2023 through October 31, 2023)

Planning for follow-up indoor air / soil vapor intrusion assessment to be conducted during the heating season. This assessment is tentatively scheduled for mid-November.

III. Schedule and Changes to Scope of Work or Schedule

BCP Project Milestones	Project Schedule
Replacement of fan above dry cleaner	June 2022
Submittal of updated site contact list	June 2022
Advancement of additional monitoring points in pizzeria and dry cleaner	December 2022
Provide current products and inventory used by dry cleaner	December 2022
Evaluation of current SSDS infrastructure in full operation (following re-installation of new SSDS fan)	February 2023
Submittal of Emerging Contaminants Groundwater Sampling Work Plan	April 2023
Groundwater Sampling for Emerging Contaminants and VOCs	May 2023
Data Validation of Groundwater Samples for Emerging Contaminants and VOCs	July 2023
Indoor Air / Soil Vapor Intrusion Assessment	August 2023

The table provided above is a summary of the current milestones completed to date.

3950.0001Y108/PR

IV. Sampling and Other Data Received or Generated during the Reporting Period

Roux received laboratory analytical results from the soil vapor intrusion / indoor air assessment conducted last month. The data is currently being validated. The laboratory analytical report is provided as Attachment 1. Locations of the samples collected are shown in Plate 1.

The results are summarized in Table 1. Six of the eight compounds listed in the New York State Department of Health (NYSDOH) Guidance matrices (carbon tetrachloride, cis-1,2-dichloroethene, 1,1-dichloroethene, trichloroethene (TCE), tetrachloroethylene (PCE), and methylene chloride) were detected in soil vapor and indoor air samples. A figure depicting the concentrations of these compounds is included as Plate 2.

V. Deliverables Submitted during the Reporting Period

None.

VI. Percentage of Work Completion and Any Delays

None.

VII. Citizen's Participation Plan Actions Taken during the Reporting Period

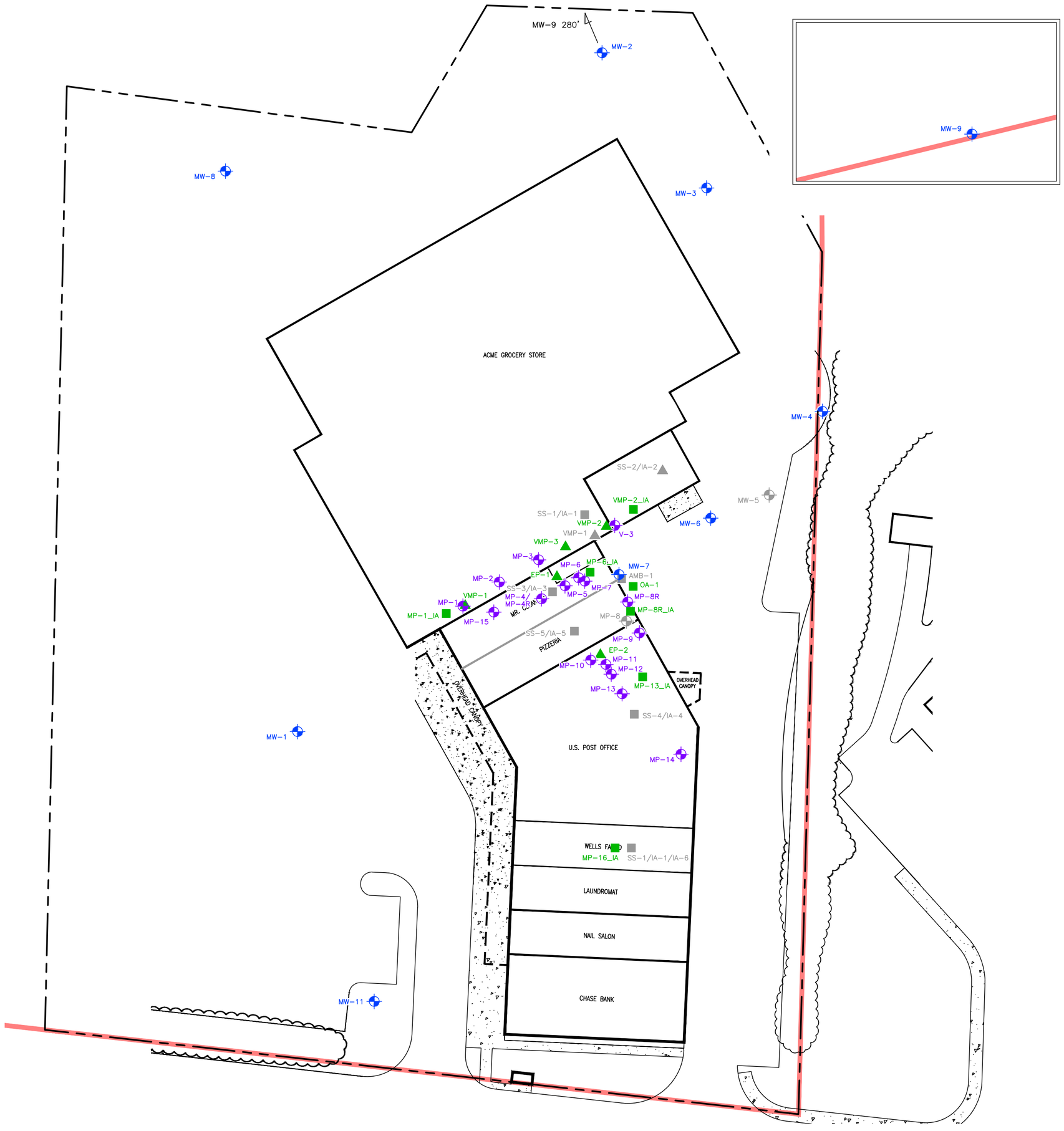
None.

VIII. Citizen's Participation Plan Actions Planned for the Next Reporting Period

None.

PLATES

1. Soil Vapor Intrusion / Indoor Air Assessment Sampling Locations August 29, 2023
2. Concentrations of VOCs in Sub-Slab and Indoor Air Samples



LEGEND

- BROWNFIELD PARCEL LINE
- PROPERTY LINE
- SS-1/IA-1 — HISTORIC SUB-SLAB SOIL VAPOR/INDOOR AIR/ AMBIENT AIR SAMPLE LOCATION
- VMP-1 — ABANDONED EXTRACTION POINT LOCATION
- MP-1_IA — AUGUST 2023 INDOOR AIR/ AMBIENT AIR SAMPLE LOCATIONS
- EP-1 — EXTRACTION POINT LOCATION
- MP-1 — MONITORING POINT LOCATION
- MW-1 — MONITORING WELL LOCATION
- MW-5 — ABANDONED MONITORING WELL/ MONITORING POINT LOCATION

NOTE

1. THE ACTIVE EXTRACTION POINT NAMED VMP-1 WAS PREVIOUSLY REFERRED TO AS VMP-4.
2. SUB-SLAB SAMPLES WERE COLLECTED FROM MP-6 AND MP-8R.

SOURCE

EXCEL ENVIRONMENTAL RESOURCES, INC., PROJECT #12229, "GENERALIZED SITE PLAN" DATED APRIL 22, 2019.

30' 0 30'

N

Title:

SOIL VAPOR INTRUSION / INDOOR AIR ASSESSMENT SAMPLING LOCATIONS AUGUST 29, 2023

MR. CLEANERS - SHRUB OAK SHOPPING CENTER
1360 EAST MAIN STREET, SHRUB OAK, NEW YORK

Prepared for:

SHRUB OAK PARTNERS

ROUX

Compiled by: C.H.	Date: 08SEP23	PLATE
Prepared by: G.M.	Scale: AS SHOWN	1
Project Mgr: C.H.	Project: 3950.0001Y000	
File: 3950.0001Y107.01.DWG		

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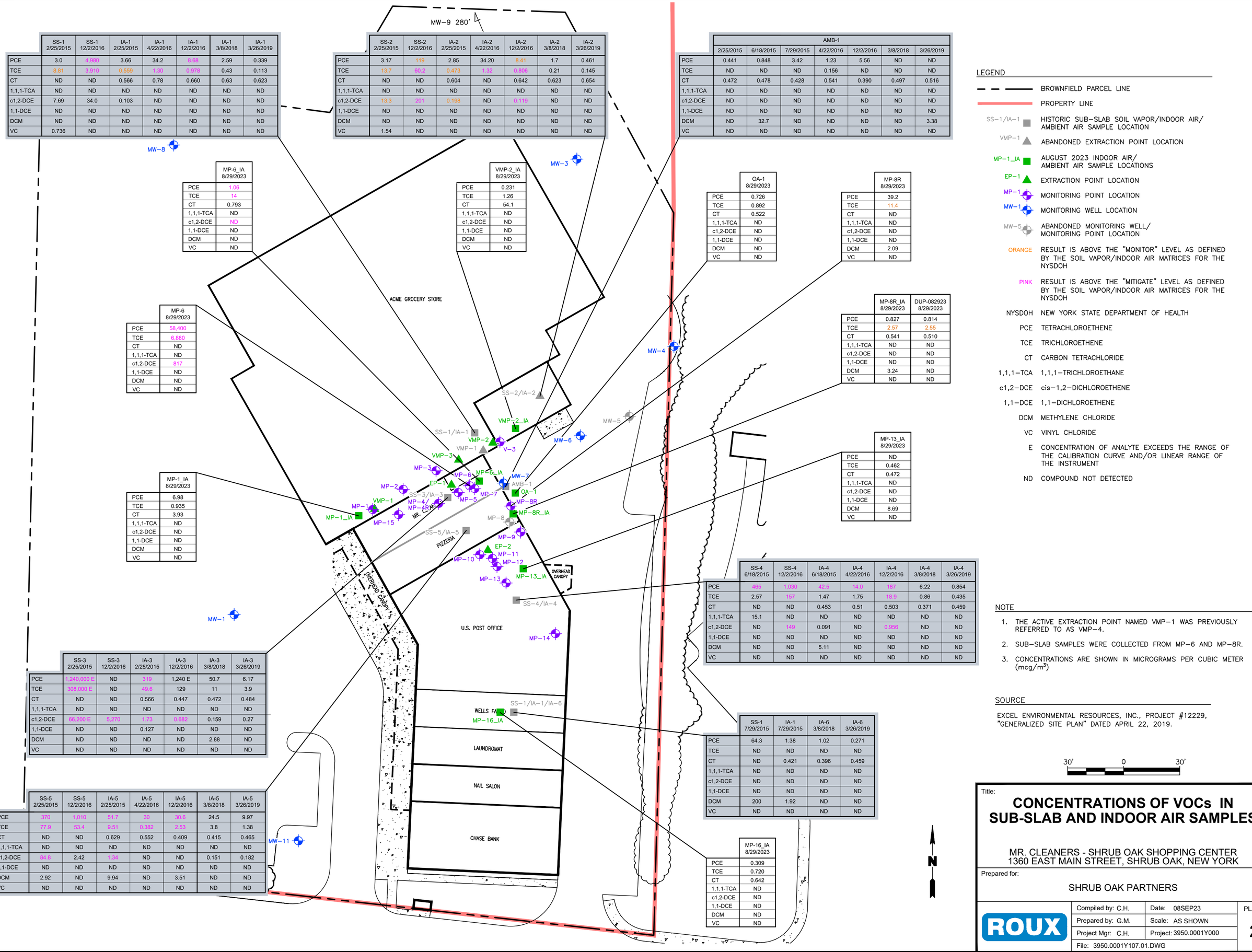

	SS-1 2/25/2015	SS-1 12/2/2016	IA-1 2/25/2015	IA-1 4/22/2016	IA-1 12/2/2016	IA-1 3/8/2018	IA-1 3/26/2019
PCE	3.0	4,980	3.66	34.2	8.68	2.59	0.339
TCE	8.81	3,910	0.559	1.30	0.978	0.43	0.113
CT	ND	ND	0.566	0.78	0.660	0.63	0.623
1,1,1-TCA	ND	ND	ND	ND	ND	ND	ND
c1,2-DCE	7.69	34.0	0.103	ND	ND	ND	ND
1,1-DCE	ND	ND	ND	ND	ND	ND	ND
DCM	ND	ND	ND	ND	ND	ND	ND
VC	0.736	ND	ND	ND	ND	ND	ND

	SS-2 2/25/2015	SS-2 12/2/2016	IA-2 2/25/2015	IA-2 4/22/2016	IA-2 12/2/2016	IA-2 3/8/2018	IA-2 3/26/2019
PCE	3.17	119	2.85	34.20	8.41	1.7	0.461
TCE	13.7	60.2	0.473	1.32	0.806	0.21	0.145
CT	ND	ND	0.604	ND	0.642	0.623	0.654
1,1,1-TCA	ND	ND	ND	ND	ND	ND	ND
c1,2-DCE	13.3	201	0.198	ND	0.119	ND	ND
1,1-DCE	ND	ND	ND	ND	ND	ND	ND
DCM	ND	ND	ND	ND	ND	ND	ND
VC	1.54	ND	ND	ND	ND	ND	ND

	AMB-1						
	2/25/2015	6/18/2015	7/29/2015	4/22/2016	12/2/2016	3/8/2018	3/26/2019
PCE	0.441	0.848	3.42	1.23	5.56	ND	ND
TCE	ND	ND	ND	0.156	ND	ND	ND
CT	0.472	0.478	0.428	0.541	0.390	0.497	0.516
1,1,1-TCA	ND	ND	ND	ND	ND	ND	ND
c1,2-DCE	ND	ND	ND	ND	ND	ND	ND
1,1-DCE	ND	ND	ND	ND	ND	ND	ND
DCM	ND	32.7	ND	ND	ND	ND	3.38
VC	ND	ND	ND	ND	ND	ND	ND

	MP-6_IA 8/29/2023
PCE	1.06
TCE	14
CT	0.793
1,1,1-TCA	ND
c1,2-DCE	ND
1,1-DCE	ND
DCM	ND
VC	ND

	VMP-2_IA 8/29/2023
PCE	0.231
TCE	1.26
CT	54.1
1,1,1-TCA	ND
c1,2-DCE	ND
1,1-DCE	ND
DCM	ND
VC	ND

	OA-1 8/29/2023
PCE	0.726
TCE	0.892
CT	0.522
1,1,1-TCA	ND
c1,2-DCE	ND
1,1-DCE	ND
DCM	ND
VC	ND

	MP-8R 8/29/2023
PCE	39.2
TCE	11.4
CT	ND
1,1,1-TCA	ND
c1,2-DCE	ND
1,1-DCE	ND
DCM	2.09
VC	ND

	MP-6 8/29/2023
PCE	58,400
TCE	6,880
CT	ND
1,1,1-TCA	ND
c1,2-DCE	817
1,1-DCE	ND
DCM	ND
VC	ND

	MP-8R_IA 8/29/2023	DUP-082923 8/29/2023
PCE	0.827	0.814
TCE	2.57	2.55
CT	0.541	0.510
1,1,1-TCA	ND	ND
c1,2-DCE	ND	ND
1,1-DCE	ND	ND
DCM	3.24	ND
VC	ND	ND

	MP-13_IA 8/29/2023
PCE	ND
TCE	0.462
CT	0.472
1,1,1-TCA	ND
c1,2-DCE	ND
1,1-DCE	ND
DCM	8.69
VC	ND

	MP-1_IA 8/29/2023
PCE	6.98
TCE	0.935
CT	3.93
1,1,1-TCA	ND
c1,2-DCE	ND
1,1-DCE	ND
DCM	ND
VC	ND

	SS-4 6/18/2015	SS-4 12/2/2016	IA-4 6/18/2015	IA-4 4/22/2016	IA-4 12/2/2016	IA-4 3/8/2018	IA-4 3/26/2019
PCE	465	1,030	42.5	14.0	187	6.22	0.854
TCE	2.57	157	1.47	1.75	18.9	0.86	0.435
CT	ND	ND	0.453	0.51	0.503	0.371	0.459
1,1,1-TCA	15.1	ND	ND	ND	ND	ND	ND
c1,2-DCE	ND	149	0.091	ND	0.956	ND	ND
1,1-DCE	ND	ND	ND	ND	ND	ND	ND
DCM	ND	ND	5.11	ND	ND	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND

	SS-3 2/25/2015	SS-3 12/2/2016	IA-3 2/25/2015	IA-3 12/2/2016	IA-3 3/8/2018	IA-3 3/26/2019
PCE	1,240,000 E	ND	319	1,240 E	50.7	6.17
TCE	308,000 E	ND	49.6	129	11	3.9
CT	ND	ND	0.566	0.447	0.472	0.484
1,1,1-TCA	ND	ND	ND	ND	ND	ND
c1,2-DCE	66,200 E	5,270	1.73	0.682	0.159	0.27
1,1-DCE	ND	ND	0.127	ND	ND	ND
DCM	ND	ND	ND	ND	2.88	ND
VC	ND	ND	ND	ND	ND	ND

	SS-1 7/29/2015	IA-1 7/29/2015	IA-6 3/8/2018	IA-6 3/26/2019
PCE	64.3	1.38	1.02	0.271
TCE	ND	ND	ND	ND
CT	ND	0.421	0.396	0.459
1,1,1-TCA	ND	ND	ND	ND
c1,2-DCE	ND	ND	ND	ND
1,1-DCE	ND	ND	ND	ND
DCM	200	1.92	ND	ND
VC	ND	ND	ND	ND

	MP-16_IA 8/29/2023
PCE	0.309
TCE	0.720
CT	0.642
1,1,1-TCA	ND
c1,2-DCE	ND
1,1-DCE	ND
DCM	ND
VC	ND

	SS-5 2/25/2015	SS-5 12/2/2016	IA-5 2/25/2015	IA-5 4/22/2016	IA-5 12/2/2016	IA-5 3/8/2018	IA-5 3/26/2019
PCE	370	1,010	51.7	30	30.6	24.5	9.97
TCE	77.9	53.4	9.51	0.382	2.53	3.8	1.38
CT	ND	ND	0.629	0.552	0.409	0.415	0.465
1,1,1-TCA	ND	ND	ND	ND	ND	ND	ND
c1,2-DCE	84.8	2.42	1.34	ND	ND	0.151	0.182
1,1-DCE	ND	ND	ND	ND	ND	ND	ND
DCM	2.92	ND	9.94	ND	3.51	ND	ND
VC	ND	ND	ND	ND	ND	ND	ND

LEGEND

- BROWNFIELD PARCEL LINE
- PROPERTY LINE
- SS-1/IA-1 — HISTORIC SUB-SLAB SOIL VAPOR/INDOOR AIR/AMBIENT AIR SAMPLE LOCATION
- VMP-1 — ABANDONED EXTRACTION POINT LOCATION
- MP-1_IA — AUGUST 2023 INDOOR AIR/AMBIENT AIR SAMPLE LOCATIONS
- EP-1 — EXTRACTION POINT LOCATION
- MP-1 — MONITORING POINT LOCATION
- MW-1 — MONITORING WELL LOCATION
- MW-5 — ABANDONED MONITORING WELL/MONITORING POINT LOCATION
- ORANGE — RESULT IS ABOVE THE "MONITOR" LEVEL AS DEFINED BY THE SOIL VAPOR/INDOOR AIR MATRICES FOR THE NYSDOH
- PINK — RESULT IS ABOVE THE "MITIGATE" LEVEL AS DEFINED BY THE SOIL VAPOR/INDOOR AIR MATRICES FOR THE NYSDOH
- NYSDOH — NEW YORK STATE DEPARTMENT OF HEALTH
- PCE — TETRACHLOROETHENE
- TCE — TRICHLOROETHENE
- CT — CARBON TETRACHLORIDE
- 1,1,1-TCA — 1,1,1-TRICHLOROETHANE
- c1,2-DCE — cis-1,2-DICHLOROETHENE
- 1,1-DCE — 1,1-DICHLOROETHENE
- DCM — METHYLENE CHLORIDE
- VC — VINYL CHLORIDE
- E — CONCENTRATION OF ANALYTE EXCEEDS THE RANGE OF THE CALIBRATION CURVE AND/OR LINEAR RANGE OF THE INSTRUMENT
- ND — COMPOUND NOT DETECTED

NOTE

1. THE ACTIVE EXTRACTION POINT NAMED VMP-1 WAS PREVIOUSLY REFERRED TO AS VMP-4.
2. SUB-SLAB SAMPLES WERE COLLECTED FROM MP-6 AND MP-8R.
3. CONCENTRATIONS ARE SHOWN IN MICROGRAMS PER CUBIC METER (mcg/m^3)

SOURCE

EXCEL ENVIRONMENTAL RESOURCES, INC., PROJECT #12229, "GENERALIZED SITE PLAN" DATED APRIL 22, 2019.

Title:

CONCENTRATIONS OF VOCs IN SUB-SLAB AND INDOOR AIR SAMPLES

MR. CLEANERS - SHRUB OAK SHOPPING CENTER
1360 EAST MAIN STREET, SHRUB OAK, NEW YORK

Prepared for:

SHRUB OAK PARTNERS

ROUX

Compiled by: C.H.	Date: 08SEP23
Prepared by: G.M.	Scale: AS SHOWN
Project Mgr: C.H.	Project: 3950.0001Y000
File: 3950.0001Y107.01.DWG	

PLATE 2

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TABLE 1

Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air

Table 1. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 1360 East Main Street, Shrub Oak, New York

Sample Designation:		MP-1_IA	MP-13_IA	MP-16_IA	MP-6	MP-6_IA	MP-8R	MP-8R_IA	MP-8R_IA	OA-1	VMP-2_IA
Sample Date:		08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	FD	N	N
Parameter	Units										
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.11 U	98.2 U	0.109 U	1.09 U	0.109 U	0.109 U	0.109 U	0.109 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.39 U	124 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	1.53 U	1.53 U	1.55 U	138 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.1 U	98.2 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.818 U	72.9 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.08 U	71.4 U	0.079 U	0.793 U	0.079 U	0.079 U	0.079 U	0.079 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.5 U	134 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	**6.39**	0.983 U	0.993 U	88.5 U	**1.49**	**2.06**	0.983 U	0.983 U	0.983 U	**6.49**
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.55 U	138 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.21 U	108 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.818 U	72.9 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.934 U	83.2 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.41 U	126 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	**2.14**	0.983 U	0.993 U	88.5 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**2.01**
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.447 U	39.8 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.21 U	108 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.21 U	108 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	0.721 U	0.721 U	0.728 U	64.9 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.943 U	84.1 U	0.934 U	**2.13**	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.828 U	73.8 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	**1.46**	0.983 U	0.993 U	88.5 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**1.46**
Acetone	UG/M3	**20.5**	**25.7**	**135**	214 U	**18**	**32.3**	**50.4**	**51.8**	**13.5**	**25.7**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.632 U	56.3 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	0.639 U	0.645 U	57.5 U	0.639 U	**2.38**	0.639 U	0.639 U	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.05 U	93.2 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.35 U	121 U	1.34 U	**1.79**	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.09 U	186 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.784 U	69.9 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.629 U	56.1 U	0.623 U	**0.688**	0.623 U	0.623 U	0.623 U	0.623 U
Carbon Tetrachloride	UG/M3	**3.93**	**0.472**	**0.642**	113 U	**0.793**	1.26 U	**0.541**	**0.51**	**0.522**	**54.1**
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.93 U	82.9 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.533 U	47.5 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	UG/M3	**1.1**	0.977 U	0.986 U	87.9 U	0.977 U	**20**	0.977 U	0.977 U	0.977 U	**3.76**
Chloromethane	UG/M3	**1.46**	**1.13**	**1.22**	37.2 U	**1.15**	**0.599**	**1.1**	**1.04**	**1.03**	**1.35**
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	0.079 U	0.08 U	**817**	0.079 U	0.793 U	0.079 U	0.079 U	0.079 U	0.079 U
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.917 U	81.7 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.695 U	62 U	0.688 U	**0.991**	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.72 U	153 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**3.31**	**1.71**	**1.85**	89 U	**2**	**1.72**	**1.79**	**1.7**	**1.6**	**3.19**
Ethanol	UG/M3	**445**	**110**	**1250**	850 U	**96.9**	**317**	**73.9**	**63.5**	**26.4**	**612**
Ethyl Acetate	UG/M3	**4.32**	1.8 U	**5.77**	163 U	1.8 U	**12.7**	1.8 U	1.8 U	1.8 U	**39.6**
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.877 U	78.2 U	0.869 U	**1.37**	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.15 U	192 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**9.39**	**4.2**	**58.5**	111 U	**1.78**	**8.04**	**2.97**	**2.85**	1.23 U	**15.1**
m,p-Xylene	UG/M3	1.74 U	1.74 U	1.76 U	157 U	1.74 U	**4.52**	1.74 U	1.74 U	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	**1.72**	1.47 U	1.49 U	133 U	1.47 U	**18.6**	**1.74**	**2.11**	**12.8**	**2.36**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.07 U	185 U	2.05 U	**11.1**	2.05 U	2.05 U	2.05 U	2.05 U
Methylene Chloride	UG/M3	1.74 U	**8.69**	1.76 U	157 U	1.74 U	**2.09**	**3.24**	1.74 U	1.74 U	1.74 U
N-Heptane	UG/M3	**1.09**	0.82 U	0.828 U	73.8 U	0.82 U	**2.14**	0.82 U	0.82 U	0.82 U	**1.29**
N-Hexane	UG/M3	0.705 U	0.705 U	0.712 U	63.4 U	0.705 U	**1.72**	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	0.877 U	78.2 U	0.869 U	**1.71**	0.869 U	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.86 U	76.6 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.53 U	137 U	1.52 U	**10.3**	1.52 U	1.52 U	1.52 U	**1.55**

Table 1. Summary of Volatile Organic Compounds in Soil Vapor and Indoor Air, 1360 East Main Street, Shrub Oak, New York

Sample Designation:		MP-1_IA	MP-13_IA	MP-16_IA	MP-6	MP-6_IA	MP-8R	MP-8R_IA	MP-8R_IA	OA-1	VMP-2_IA
Sample Date:		08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023	08/29/2023
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	FD	N	N
Parameter	Units										
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.728 U	64.9 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	UG/M3	**6.98**	0.136 U	**0.309**	**58400**	**1.06**	**39.2**	**0.827**	**0.814**	**0.726**	**0.231**
Tetrahydrofuran	UG/M3	**2.04**	1.47 U	**2**	133 U	**1.94**	**1.62**	1.47 U	1.47 U	1.47 U	**1.93**
Toluene	UG/M3	**1.58**	**3.42**	**1.08**	67.8 U	0.754 U	**9.5**	**1.19**	**1.21**	**0.837**	**1.27**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.801 U	71.4 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.917 U	81.7 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	UG/M3	**0.935**	**0.462**	**0.72**	**6880**	**14**	**11.4**	**2.57**	**2.55**	**0.892**	**1.26**
Trichlorofluoromethane	UG/M3	**4.6**	1.12 U	**1.23**	101 U	**1.87**	**1.28**	**1.33**	**1.2**	**1.2**	**4.65**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.883 U	78.7 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.052 U	46 U	0.051 U	0.511 U	0.051 U	0.051 U	0.051 U	0.051 U

ATTACHMENT 1

Analytical Laboratory Report

ANALYTICAL REPORT

Lab Number:	L2350542
Client:	Roux Env. Eng. & Geology, DPC 209 Shafter Street Islandia, NY 11749-5074
ATTN:	Stephen Loonie
Phone:	(631) 630-2379
Project Name:	SHRUB OAK
Project Number:	Not Specified
Report Date:	09/11/23

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 (99110) , NJ (MA015), NY (11627), NC (685), OH (CL106), OR (MA-0262), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #525-23-107-88708), 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: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2350542-01	MP-6	SOIL_VAPOR	1650 E MAIN ST	08/29/23 16:35	08/30/23
L2350542-02	MP-13	SOIL_VAPOR	1650 E MAIN ST	08/29/23 17:30	08/30/23
L2350542-03	MP-8R	SOIL_VAPOR	1650 E MAIN ST	08/29/23 20:00	08/30/23
L2350542-04	MP-16	SOIL_VAPOR	1650 E MAIN ST	08/29/23 16:25	08/30/23
L2350542-05	MP-6_IA	AIR	1650 E MAIN ST	08/29/23 17:30	08/30/23
L2350542-06	MP-1_IA	AIR	1650 E MAIN ST	08/29/23 17:24	08/30/23
L2350542-07	VMP-2_IA	AIR	1650 E MAIN ST	08/29/23 17:29	08/30/23
L2350542-08	MP-13_IA	AIR	1650 E MAIN ST	08/29/23 18:00	08/30/23
L2350542-09	OA-1	AIR	1650 E MAIN ST	08/29/23 19:40	08/30/23
L2350542-10	MP-8R_IA	AIR	1650 E MAIN ST	08/29/23 20:01	08/30/23
L2350542-11	MP-16_IA	AIR	1650 E MAIN ST	08/29/23 18:33	08/30/23
L2350542-12	DUP_082923	AIR	1650 E MAIN ST	08/29/23 20:02	08/30/23
L2350542-13	UNUSED CAN #2198	SOIL_VAPOR	1650 E MAIN ST		08/30/23
L2350542-14	UNUSED CAN #3119	SOIL_VAPOR	1650 E MAIN ST		08/30/23
L2350542-15	UNUSED CAN #506	SOIL_VAPOR	1650 E MAIN ST		08/30/23

Project Name:	SHRUB OAK	**Lab Number:**	L2350542
Project Number:	Not Specified	**Report Date:**	09/11/23

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: SHRUB OAK
Project Number: Not Specified
Lab Number: L2350542
Report Date: 09/11/23

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on August 25, 2023. The canister certification results are provided as an addendum.

L2350542-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2350542-11D: The canister vacuum measured on receipt at the laboratory was > 15 in. Hg. Due to the low pressure in the canister, the sample did not pull the target volume of 250 mL required for a 1X analysis. A dilution factor has been applied as a result of the lower volume analyzed.

L2350542-11D: The canister vacuum measured on receipt at the laboratory was > 15 in. Hg. Due to the low pressure in the canister, the sample did not pull the target volume of 250 mL required for a 1X analysis. A dilution factor has been applied as a result of the lower volume analyzed.

L2350542-11D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

Sample Receipt

The sample designated MP-13 (L2350542-02) failed to collect in the field. The associated flow controller was clogged upon return. The anlaysis of this sample was cancelled.

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: Christopher J. Anderson

Title: Technical Director/Representative Date: 09/11/23

AIR

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-01 D
Client ID: MP-6
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 16:35
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 06:06
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	18.0	--	ND	89.0	--		90.25
Chloromethane	ND	18.0	--	ND	37.2	--		90.25
Freon-114	ND	18.0	--	ND	126	--		90.25
Vinyl chloride	ND	18.0	--	ND	46.0	--		90.25
1,3-Butadiene	ND	18.0	--	ND	39.8	--		90.25
Bromomethane	ND	18.0	--	ND	69.9	--		90.25
Chloroethane	ND	18.0	--	ND	47.5	--		90.25
Ethanol	ND	451	--	ND	850	--		90.25
Vinyl bromide	ND	18.0	--	ND	78.7	--		90.25
Acetone	ND	90.2	--	ND	214	--		90.25
Trichlorofluoromethane	ND	18.0	--	ND	101	--		90.25
Isopropanol	ND	45.1	--	ND	111	--		90.25
1,1-Dichloroethene	ND	18.0	--	ND	71.4	--		90.25
Tertiary butyl Alcohol	ND	45.1	--	ND	137	--		90.25
Methylene chloride	ND	45.1	--	ND	157	--		90.25
3-Chloropropene	ND	18.0	--	ND	56.3	--		90.25
Carbon disulfide	ND	18.0	--	ND	56.1	--		90.25
Freon-113	ND	18.0	--	ND	138	--		90.25
trans-1,2-Dichloroethene	ND	18.0	--	ND	71.4	--		90.25
1,1-Dichloroethane	ND	18.0	--	ND	72.9	--		90.25
Methyl tert butyl ether	ND	18.0	--	ND	64.9	--		90.25
2-Butanone	ND	45.1	--	ND	133	--		90.25
cis-1,2-Dichloroethene	206	18.0	--	817	71.4	--		90.25

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-01 D
Client ID: MP-6
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 16:35
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	45.1	--	ND	163	--		90.25
Chloroform	ND	18.0	--	ND	87.9	--		90.25
Tetrahydrofuran	ND	45.1	--	ND	133	--		90.25
1,2-Dichloroethane	ND	18.0	--	ND	72.9	--		90.25
n-Hexane	ND	18.0	--	ND	63.4	--		90.25
1,1,1-Trichloroethane	ND	18.0	--	ND	98.2	--		90.25
Benzene	ND	18.0	--	ND	57.5	--		90.25
Carbon tetrachloride	ND	18.0	--	ND	113	--		90.25
Cyclohexane	ND	18.0	--	ND	62.0	--		90.25
1,2-Dichloropropane	ND	18.0	--	ND	83.2	--		90.25
Bromodichloromethane	ND	18.0	--	ND	121	--		90.25
1,4-Dioxane	ND	18.0	--	ND	64.9	--		90.25
Trichloroethene	1280	18.0	--	6880	96.7	--		90.25
2,2,4-Trimethylpentane	ND	18.0	--	ND	84.1	--		90.25
Heptane	ND	18.0	--	ND	73.8	--		90.25
cis-1,3-Dichloropropene	ND	18.0	--	ND	81.7	--		90.25
4-Methyl-2-pentanone	ND	45.1	--	ND	185	--		90.25
trans-1,3-Dichloropropene	ND	18.0	--	ND	81.7	--		90.25
1,1,2-Trichloroethane	ND	18.0	--	ND	98.2	--		90.25
Toluene	ND	18.0	--	ND	67.8	--		90.25
2-Hexanone	ND	18.0	--	ND	73.8	--		90.25
Dibromochloromethane	ND	18.0	--	ND	153	--		90.25
1,2-Dibromoethane	ND	18.0	--	ND	138	--		90.25
Tetrachloroethene	8610	18.0	--	58400	122	--		90.25
Chlorobenzene	ND	18.0	--	ND	82.9	--		90.25
Ethylbenzene	ND	18.0	--	ND	78.2	--		90.25

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-01 D
Client ID: MP-6
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 16:35
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	ND	36.1	--	ND	157	--		90.25
Bromoform	ND	18.0	--	ND	186	--		90.25
Styrene	ND	18.0	--	ND	76.6	--		90.25
1,1,2,2-Tetrachloroethane	ND	18.0	--	ND	124	--		90.25
o-Xylene	ND	18.0	--	ND	78.2	--		90.25
4-Ethyltoluene	ND	18.0	--	ND	88.5	--		90.25
1,3,5-Trimethylbenzene	ND	18.0	--	ND	88.5	--		90.25
1,2,4-Trimethylbenzene	ND	18.0	--	ND	88.5	--		90.25
Benzyl chloride	ND	18.0	--	ND	93.2	--		90.25
1,3-Dichlorobenzene	ND	18.0	--	ND	108	--		90.25
1,4-Dichlorobenzene	ND	18.0	--	ND	108	--		90.25
1,2-Dichlorobenzene	ND	18.0	--	ND	108	--		90.25
1,2,4-Trichlorobenzene	ND	18.0	--	ND	134	--		90.25
Hexachlorobutadiene	ND	18.0	--	ND	192	--		90.25

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	110		60-140
Bromochloromethane	110		60-140
chlorobenzene-d5	107		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-03
Client ID: MP-8R
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:00
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil_Vapor
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 05:37
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.347	0.200	--	1.72	0.989	--		1
Chloromethane	0.290	0.200	--	0.599	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	168	5.00	--	317	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	13.6	1.00	--	32.3	2.38	--		1
Trichlorofluoromethane	0.227	0.200	--	1.28	1.12	--		1
Isopropanol	3.27	0.500	--	8.04	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	3.40	0.500	--	10.3	1.52	--		1
Methylene chloride	0.602	0.500	--	2.09	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.221	0.200	--	0.688	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	6.29	0.500	--	18.6	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-03
Client ID: MP-8R
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:00
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	3.52	0.500	--	12.7	1.80	--		1
Chloroform	4.10	0.200	--	20.0	0.977	--		1
Tetrahydrofuran	0.549	0.500	--	1.62	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.487	0.200	--	1.72	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.744	0.200	--	2.38	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.288	0.200	--	0.991	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.267	0.200	--	1.79	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	2.13	0.200	--	11.4	1.07	--		1
2,2,4-Trimethylpentane	0.457	0.200	--	2.13	0.934	--		1
Heptane	0.521	0.200	--	2.14	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	2.71	0.500	--	11.1	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	2.52	0.200	--	9.50	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	5.78	0.200	--	39.2	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.316	0.200	--	1.37	0.869	--		1

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-03
Client ID: MP-8R
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:00
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	1.04	0.400	--	4.52	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
o-Xylene	0.394	0.200	--	1.71	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	0.420	0.200	--	2.06	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	107		60-140
Bromochloromethane	106		60-140
chlorobenzene-d5	113		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-05
Client ID: MP-6_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:30
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 01:26
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.405	0.200	--	2.00	0.989	--		1
Chloromethane	0.556	0.200	--	1.15	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		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	51.4	5.00	--	96.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	7.59	1.00	--	18.0	2.38	--		1
Trichlorofluoromethane	0.333	0.200	--	1.87	1.12	--		1
Isopropanol	0.723	0.500	--	1.78	1.23	--		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
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.657	0.500	--	1.94	1.47	--		1

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-05
Client ID: MP-6_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:30
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		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
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
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
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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-05
Client ID: MP-6_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:30
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	0.303	0.200	--	1.49	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-05
Client ID: MP-6_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:30
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/09/23 01:26
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.126	0.020	--	0.793	0.126	--		1
Trichloroethene	2.60	0.020	--	14.0	0.107	--		1
Tetrachloroethene	0.156	0.020	--	1.06	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	90		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	92		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-06
Client ID: MP-1_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:24
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 02:49
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.670	0.200	--	3.31	0.989	--		1
Chloromethane	0.706	0.200	--	1.46	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		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	236	5.00	--	445	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.61	1.00	--	20.5	2.38	--		1
Trichlorofluoromethane	0.819	0.200	--	4.60	1.12	--		1
Isopropanol	3.82	0.500	--	9.39	1.23	--		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	0.583	0.500	--	1.72	1.47	--		1
Ethyl Acetate	1.20	0.500	--	4.32	1.80	--		1
Chloroform	0.225	0.200	--	1.10	0.977	--		1
Tetrahydrofuran	0.691	0.500	--	2.04	1.47	--		1

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-06
Client ID: MP-1_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:24
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		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
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.265	0.200	--	1.09	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	0.420	0.200	--	1.58	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
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
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	0.296	0.200	--	1.46	0.983	--		1
1,3,5-Trimethylbenzene	0.436	0.200	--	2.14	0.983	--		1

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-06
Client ID: MP-1_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:24
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	1.30	0.200	--	6.39	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	113		60-140
Bromochloromethane	108		60-140
chlorobenzene-d5	101		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-06
Client ID: MP-1_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:24
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/09/23 02:49
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.625	0.020	--	3.93	0.126	--		1
Trichloroethene	0.174	0.020	--	0.935	0.107	--		1
Tetrachloroethene	1.03	0.020	--	6.98	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	105		60-140
bromochloromethane	100		60-140
chlorobenzene-d5	96		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-07
Client ID: VMP-2_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:29
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 03:24
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.645	0.200	--	3.19	0.989	--		1
Chloromethane	0.656	0.200	--	1.35	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		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	325	5.00	--	612	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.8	1.00	--	25.7	2.38	--		1
Trichlorofluoromethane	0.827	0.200	--	4.65	1.12	--		1
Isopropanol	6.14	0.500	--	15.1	1.23	--		1
Tertiary butyl Alcohol	0.511	0.500	--	1.55	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	0.799	0.500	--	2.36	1.47	--		1
Ethyl Acetate	11.0	0.500	--	39.6	1.80	--		1
Chloroform	0.770	0.200	--	3.76	0.977	--		1
Tetrahydrofuran	0.654	0.500	--	1.93	1.47	--		1

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-07
Client ID: VMP-2_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:29
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		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
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.314	0.200	--	1.29	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	0.336	0.200	--	1.27	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
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
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	0.297	0.200	--	1.46	0.983	--		1
1,3,5-Trimethylbenzene	0.408	0.200	--	2.01	0.983	--		1

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-07
Client ID: VMP-2_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:29
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	1.32	0.200	--	6.49	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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	110		60-140
Bromochloromethane	107		60-140
chlorobenzene-d5	102		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-07
Client ID: VMP-2_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 17:29
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/09/23 03:24
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	8.60	0.020	--	54.1	0.126	--		1
Trichloroethene	0.235	0.020	--	1.26	0.107	--		1
Tetrachloroethene	0.034	0.020	--	0.231	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	102		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	98		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-08
Client ID: MP-13_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 18:00
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 03:57
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.345	0.200	--	1.71	0.989	--		1
Chloromethane	0.548	0.200	--	1.13	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		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	58.2	5.00	--	110	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	10.8	1.00	--	25.7	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	1.71	0.500	--	4.20	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	2.50	0.500	--	8.69	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
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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-08
Client ID: MP-13_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 18:00
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		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
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	0.908	0.200	--	3.42	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
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
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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-08
Client ID: MP-13_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 18:00
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	106		60-140
Bromochloromethane	106		60-140
chlorobenzene-d5	100		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-08
Client ID: MP-13_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 18:00
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/09/23 03:57
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.075	0.020	--	0.472	0.126	--		1
Trichloroethene	0.086	0.020	--	0.462	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	100		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	97		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-09
Client ID: OA-1
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 19:40
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/08/23 18:30
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.324	0.200	--	1.60	0.989	--		1
Chloromethane	0.499	0.200	--	1.03	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		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	14.0	5.00	--	26.4	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.67	1.00	--	13.5	2.38	--		1
Trichlorofluoromethane	0.214	0.200	--	1.20	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		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	4.34	0.500	--	12.8	1.47	--		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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-09
Client ID: OA-1
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 19:40
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		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
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	0.222	0.200	--	0.837	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
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
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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-09
Client ID: OA-1
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 19:40
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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

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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-09
Client ID: OA-1
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 19:40
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/08/23 18:30
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	0.166	0.020	--	0.892	0.107	--		1
Tetrachloroethene	0.107	0.020	--	0.726	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	89		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	90		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-10
Client ID: MP-8R_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:01
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 00:03
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.362	0.200	--	1.79	0.989	--		1
Chloromethane	0.534	0.200	--	1.10	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		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	39.2	5.00	--	73.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	21.2	1.00	--	50.4	2.38	--		1
Trichlorofluoromethane	0.237	0.200	--	1.33	1.12	--		1
Isopropanol	1.21	0.500	--	2.97	1.23	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	0.934	0.500	--	3.24	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	0.591	0.500	--	1.74	1.47	--		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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-10
Client ID: MP-8R_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:01
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		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
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	0.316	0.200	--	1.19	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
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
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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-10
Client ID: MP-8R_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:01
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-10
Client ID: MP-8R_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:01
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/09/23 00:03
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.086	0.020	--	0.541	0.126	--		1
Trichloroethene	0.479	0.020	--	2.57	0.107	--		1
Tetrachloroethene	0.122	0.020	--	0.827	0.136	--		1

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	86		60-140
bromochloromethane	87		60-140
chlorobenzene-d5	89		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-11 D
Client ID: MP-16_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 18:33
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 00:49
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.374	0.202	--	1.85	0.999	--		1.012
Chloromethane	0.589	0.202	--	1.22	0.417	--		1.012
Freon-114	ND	0.202	--	ND	1.41	--		1.012
1,3-Butadiene	ND	0.202	--	ND	0.447	--		1.012
Bromomethane	ND	0.202	--	ND	0.784	--		1.012
Chloroethane	ND	0.202	--	ND	0.533	--		1.012
Ethanol	557	5.06	--	1050	9.53	--	E	1.012
Vinyl bromide	ND	0.202	--	ND	0.883	--		1.012
Acetone	56.9	1.01	--	135	2.40	--		1.012
Trichlorofluoromethane	0.218	0.202	--	1.23	1.14	--		1.012
Isopropanol	23.8	0.506	--	58.5	1.24	--		1.012
Tertiary butyl Alcohol	ND	0.506	--	ND	1.53	--		1.012
Methylene chloride	ND	0.506	--	ND	1.76	--		1.012
3-Chloropropene	ND	0.202	--	ND	0.632	--		1.012
Carbon disulfide	ND	0.202	--	ND	0.629	--		1.012
Freon-113	ND	0.202	--	ND	1.55	--		1.012
trans-1,2-Dichloroethene	ND	0.202	--	ND	0.801	--		1.012
1,1-Dichloroethane	ND	0.202	--	ND	0.818	--		1.012
Methyl tert butyl ether	ND	0.202	--	ND	0.728	--		1.012
2-Butanone	ND	0.506	--	ND	1.49	--		1.012
Ethyl Acetate	1.60	0.506	--	5.77	1.82	--		1.012
Chloroform	ND	0.202	--	ND	0.986	--		1.012
Tetrahydrofuran	0.678	0.506	--	2.00	1.49	--		1.012

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-11 D
Client ID: MP-16_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 18:33
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.202	--	ND	0.818	--		1.012
n-Hexane	ND	0.202	--	ND	0.712	--		1.012
Benzene	ND	0.202	--	ND	0.645	--		1.012
Cyclohexane	ND	0.202	--	ND	0.695	--		1.012
1,2-Dichloropropane	ND	0.202	--	ND	0.934	--		1.012
Bromodichloromethane	ND	0.202	--	ND	1.35	--		1.012
1,4-Dioxane	ND	0.202	--	ND	0.728	--		1.012
2,2,4-Trimethylpentane	ND	0.202	--	ND	0.943	--		1.012
Heptane	ND	0.202	--	ND	0.828	--		1.012
cis-1,3-Dichloropropene	ND	0.202	--	ND	0.917	--		1.012
4-Methyl-2-pentanone	ND	0.506	--	ND	2.07	--		1.012
trans-1,3-Dichloropropene	ND	0.202	--	ND	0.917	--		1.012
1,1,2-Trichloroethane	ND	0.202	--	ND	1.10	--		1.012
Toluene	0.286	0.202	--	1.08	0.761	--		1.012
2-Hexanone	ND	0.202	--	ND	0.828	--		1.012
Dibromochloromethane	ND	0.202	--	ND	1.72	--		1.012
1,2-Dibromoethane	ND	0.202	--	ND	1.55	--		1.012
Chlorobenzene	ND	0.202	--	ND	0.930	--		1.012
Ethylbenzene	ND	0.202	--	ND	0.877	--		1.012
p/m-Xylene	ND	0.405	--	ND	1.76	--		1.012
Bromoform	ND	0.202	--	ND	2.09	--		1.012
Styrene	ND	0.202	--	ND	0.860	--		1.012
1,1,2,2-Tetrachloroethane	ND	0.202	--	ND	1.39	--		1.012
o-Xylene	ND	0.202	--	ND	0.877	--		1.012
4-Ethyltoluene	ND	0.202	--	ND	0.993	--		1.012
1,3,5-Trimethylbenzene	ND	0.202	--	ND	0.993	--		1.012

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-11 D
Client ID: MP-16_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 18:33
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.202	--	ND	0.993	--		1.012
Benzyl chloride	ND	0.202	--	ND	1.05	--		1.012
1,3-Dichlorobenzene	ND	0.202	--	ND	1.21	--		1.012
1,4-Dichlorobenzene	ND	0.202	--	ND	1.21	--		1.012
1,2-Dichlorobenzene	ND	0.202	--	ND	1.21	--		1.012
1,2,4-Trichlorobenzene	ND	0.202	--	ND	1.50	--		1.012
Hexachlorobutadiene	ND	0.202	--	ND	2.15	--		1.012

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	98		60-140
Bromochloromethane	102		60-140
chlorobenzene-d5	98		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-11 D
Client ID: MP-16_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 18:33
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 07:31
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Ethanol	664	12.5	--	1250	23.6	--		2.5

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	108		60-140
Bromochloromethane	109		60-140
chlorobenzene-d5	105		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-11 D
Client ID: MP-16_IA
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 18:33
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/09/23 00:49
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.052	--		1.012
1,1-Dichloroethene	ND	0.020	--	ND	0.080	--		1.012
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.080	--		1.012
1,1,1-Trichloroethane	ND	0.020	--	ND	0.110	--		1.012
Carbon tetrachloride	0.102	0.020	--	0.642	0.127	--		1.012
Trichloroethene	0.134	0.020	--	0.720	0.109	--		1.012
Tetrachloroethene	0.046	0.020	--	0.309	0.137	--		1.012

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-difluorobenzene	93		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	94		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-12
Client ID: DUP_082923
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:02
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 09/09/23 05:03
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.343	0.200	--	1.70	0.989	--		1
Chloromethane	0.505	0.200	--	1.04	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		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	33.7	5.00	--	63.5	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	21.8	1.00	--	51.8	2.38	--		1
Trichlorofluoromethane	0.213	0.200	--	1.20	1.12	--		1
Isopropanol	1.16	0.500	--	2.85	1.23	--		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	0.716	0.500	--	2.11	1.47	--		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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-12
Client ID: DUP_082923
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:02
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		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
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	0.320	0.200	--	1.21	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
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
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

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-12
Client ID: DUP_082923
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:02
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	104		60-140
Bromochloromethane	106		60-140
chlorobenzene-d5	102		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

SAMPLE RESULTS

Lab ID: L2350542-12
Client ID: DUP_082923
Sample Location: 1650 E MAIN ST

Date Collected: 08/29/23 20:02
Date Received: 08/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 09/09/23 05:03
Analyst: JMB

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.081	0.020	--	0.510	0.126	--		1
Trichloroethene	0.475	0.020	--	2.55	0.107	--		1
Tetrachloroethene	0.120	0.020	--	0.814	0.136	--		1

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

Project Name: SHRUB OAK
Project Number: Not Specified
Lab Number: L2350542
Report Date: 09/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/08/23 14:31

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03,05-12 Batch: WG1825394-4								
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: SHRUB OAK
Project Number: Not Specified
Lab Number: L2350542
Report Date: 09/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/08/23 14:31

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03,05-12 Batch: WG1825394-4								
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: SHRUB OAK
Project Number: Not Specified
Lab Number: L2350542
Report Date: 09/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 09/08/23 14:31

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab for sample(s): 01,03,05-12 Batch: WG1825394-4								
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

Project Name: SHRUB OAK
Project Number: Not Specified
Lab Number: L2350542
Report Date: 09/11/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15-SIM
Analytical Date: 09/08/23 15:01

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 05-12 Batch: WG1825395-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,05-12 Batch: WG1825394-3								
Dichlorodifluoromethane	87		-		70-130	-		
Chloromethane	96		-		70-130	-		
Freon-114	93		-		70-130	-		
Vinyl chloride	89		-		70-130	-		
1,3-Butadiene	96		-		70-130	-		
Bromomethane	93		-		70-130	-		
Chloroethane	89		-		70-130	-		
Ethanol	111		-		40-160	-		
Vinyl bromide	88		-		70-130	-		
Acetone	89		-		40-160	-		
Trichlorofluoromethane	92		-		70-130	-		
Isopropanol	77		-		40-160	-		
1,1-Dichloroethene	88		-		70-130	-		
Tertiary butyl Alcohol	81		-		70-130	-		
Methylene chloride	94		-		70-130	-		
3-Chloropropene	84		-		70-130	-		
Carbon disulfide	76		-		70-130	-		
Freon-113	88		-		70-130	-		
trans-1,2-Dichloroethene	77		-		70-130	-		
1,1-Dichloroethane	86		-		70-130	-		
Methyl tert butyl ether	85		-		70-130	-		
2-Butanone	83		-		70-130	-		
cis-1,2-Dichloroethene	85		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,05-12 Batch: WG1825394-3								
Ethyl Acetate	84		-		70-130	-		
Chloroform	89		-		70-130	-		
Tetrahydrofuran	77		-		70-130	-		
1,2-Dichloroethane	85		-		70-130	-		
n-Hexane	92		-		70-130	-		
1,1,1-Trichloroethane	104		-		70-130	-		
Benzene	94		-		70-130	-		
Carbon tetrachloride	107		-		70-130	-		
Cyclohexane	91		-		70-130	-		
1,2-Dichloropropane	99		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	92		-		70-130	-		
Trichloroethene	102		-		70-130	-		
2,2,4-Trimethylpentane	94		-		70-130	-		
Heptane	96		-		70-130	-		
cis-1,3-Dichloropropene	109		-		70-130	-		
4-Methyl-2-pentanone	100		-		70-130	-		
trans-1,3-Dichloropropene	95		-		70-130	-		
1,1,2-Trichloroethane	103		-		70-130	-		
Toluene	91		-		70-130	-		
2-Hexanone	86		-		70-130	-		
Dibromochloromethane	93		-		70-130	-		
1,2-Dibromoethane	89		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,05-12 Batch: WG1825394-3								
Tetrachloroethene	88		-		70-130	-		
Chlorobenzene	92		-		70-130	-		
Ethylbenzene	92		-		70-130	-		
p/m-Xylene	96		-		70-130	-		
Bromoform	96		-		70-130	-		
Styrene	90		-		70-130	-		
1,1,2,2-Tetrachloroethane	97		-		70-130	-		
o-Xylene	99		-		70-130	-		
4-Ethyltoluene	89		-		70-130	-		
1,3,5-Trimethylbenzene	100		-		70-130	-		
1,2,4-Trimethylbenzene	105		-		70-130	-		
Benzyl chloride	98		-		70-130	-		
1,3-Dichlorobenzene	96		-		70-130	-		
1,4-Dichlorobenzene	100		-		70-130	-		
1,2-Dichlorobenzene	98		-		70-130	-		
1,2,4-Trichlorobenzene	102		-		70-130	-		
Hexachlorobutadiene	111		-		70-130	-		

Lab Control Sample Analysis
Batch Quality Control

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 05-12 Batch: WG1825395-3								
Vinyl chloride	89		-		70-130	-		25
1,1-Dichloroethene	91		-		70-130	-		25
cis-1,2-Dichloroethene	86		-		70-130	-		25
1,1,1-Trichloroethane	107		-		70-130	-		25
Carbon tetrachloride	106		-		70-130	-		25
Trichloroethene	96		-		70-130	-		25
Tetrachloroethene	91		-		70-130	-		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,05-12 QC Batch ID: WG1825394-5 QC Sample: L2350542-05 Client ID: MP-6_IA						
Dichlorodifluoromethane	0.405	0.400	ppbV	1		25
Chloromethane	0.556	0.596	ppbV	7		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	51.4	49.3	ppbV	4		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	7.59	6.80	ppbV	11		25
Trichlorofluoromethane	0.333	0.272	ppbV	20		25
Isopropanol	0.723	0.668	ppbV	8		25
Tertiary butyl Alcohol	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,05-12 QC Batch ID: WG1825394-5 QC Sample: L2350542-05 Client ID: MP-6_IA						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	0.657	0.678	ppbV	3		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
Benzene	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	ND	0.212	ppbV	NC		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis
Batch Quality Control

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01,03,05-12 QC Batch ID: WG1825394-5 QC Sample: L2350542-05 Client ID: MP-6_IA						
p/m-Xylene	ND	ND	ppbV	NC		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.303	0.323	ppbV	6		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 05-12 QC Batch ID: WG1825395-5 QC Sample: L2350542-05 Client ID: MP-6_IA						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Carbon tetrachloride	0.126	0.118	ppbV	7		25
Trichloroethene	2.60	2.65	ppbV	2		25
Tetrachloroethene	0.156	0.171	ppbV	9		25

Project Name: SHRUB OAK

Lab Number: L2350542

Project Number:

Report Date: 09/11/23

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
L2350542-01	MP-6	02098	Flow 3	08/25/23	434429		-	-	-	Pass	-4.5	3.3	-1300
L2350542-01	MP-6	2308	2.7L Can	08/25/23	434429	L2346802-02	Pass	-29.9	-14.7	-	-	-	-
L2350542-02	MP-13	01046	Flow 3	08/25/23	434429		-	-	-	Pass	-4.5	0.0	-200
L2350542-02	MP-13	3191	2.7L Can	08/25/23	434429	L2346802-02	Pass	-29.9	-29.4	-	-	-	-
L2350542-03	MP-8R	01535	Flow 4	08/25/23	434429		-	-	-	Pass	-4.5	4.8	6200
L2350542-03	MP-8R	470	2.7L Can	08/25/23	434429	L2346961-06	Pass	-29.9	-9.1	-	-	-	-
L2350542-04	MP-16	01494	Flow 3	08/25/23	434429		-	-	-	Pass	-4.5	0.0	-200
L2350542-04	MP-16	2075	2.7L Can	08/25/23	434429	L2346802-02	Pass	-29.9	-29.6	-	-	-	-
L2350542-05	MP-6_IA	01793	Flow 3	08/25/23	434429		-	-	-	Pass	-4.5	4.8	6200
L2350542-05	MP-6_IA	2313	2.7L Can	08/25/23	434429	L2346802-02	Pass	-29.9	-8.6	-	-	-	-
L2350542-06	MP-1_IA	01117	Flow 5	08/25/23	434429		-	-	-	Pass	-4.5	4.1	-4300
L2350542-06	MP-1_IA	550	2.7L Can	08/25/23	434429	L2347593-01	Pass	-29.9	-9.9	-	-	-	-
L2350542-07	VMP-2_IA	01646	Flow 4	08/25/23	434429		-	-	-	Pass	-4.5	4.2	-5800
L2350542-07	VMP-2_IA	374	2.7L Can	08/25/23	434429	L2346961-06	Pass	-29.9	-8.2	-	-	-	-
L2350542-08	MP-13_IA	01508	Flow 4	08/25/23	434429		-	-	-	Pass	-4.5	4.7	9200

Project Name: SHRUB OAK

Project Number:

Lab Number: L2350542

Report Date: 09/11/23

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
L2350542-08	MP-13_IA	2822	2.7L Can	08/25/23	434429	L2347593-01	Pass	-29.9	-8.7	-	-	-	-
L2350542-09	OA-1	01119	Flow 4	08/25/23	434429		-	-	-	Pass	-4.5	4.4	-17800
L2350542-09	OA-1	2220	2.7L Can	08/25/23	434429	L2346961-06	Pass	-29.9	-6.1	-	-	-	-
L2350542-10	MP-8R_IA	01585	Flow 4	08/25/23	434429		-	-	-	Pass	-4.5	4.8	6200
L2350542-10	MP-8R_IA	3714	2.7L Can	08/25/23	434429	L2346961-06	Pass	-29.9	-10.9	-	-	-	-
L2350542-11	MP-16_IA	01774	Flow 4	08/25/23	434429		-	-	-	Pass	-4.5	4.2	-5800
L2350542-11	MP-16_IA	2383	2.7L Can	08/25/23	434429	L2346961-06	Pass	-29.9	-12.3	-	-	-	-
L2350542-12	DUP_082923	0286	Flow 5	08/25/23	434429		-	-	-	Pass	-4.5	4.3	-8800
L2350542-12	DUP_082923	3899	2.7L Can	08/25/23	434429	L2346961-06	Pass	-29.9	-7.8	-	-	-	-
L2350542-13	UNUSED CAN #2198	01495	Flow 3	08/25/23	434429		-	-	-	Pass	-4.5	0.9	-300
L2350542-13	UNUSED CAN #2198	2198	2.7L Can	08/25/23	434429	L2346961-06	Pass	-29.9	-29.7	-	-	-	-
L2350542-14	UNUSED CAN #3119	01492	Flow 3	08/25/23	434429		-	-	-	Pass	-4.5	1.3	-363
L2350542-14	UNUSED CAN #3119	3119	2.7L Can	08/25/23	434429	L2346961-06	Pass	-29.9	-28.9	-	-	-	-
L2350542-15	UNUSED CAN #506	01477	Flow 3	08/25/23	434429		-	-	-	Pass	-4.5	0.5	-250
L2350542-15	UNUSED CAN #506	506	2.7L Can	08/25/23	434429	L2346961-06	Pass	-29.9	-29.6	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346802
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346802-02
Client ID: CAN 129 SHELF 10
Sample Location:

Date Collected: 08/11/23 18:00
Date Received: 08/14/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/15/23 17:37
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield 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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346802
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346802-02
Client ID: CAN 129 SHELF 10
Sample Location:

Date Collected: 08/11/23 18:00
Date Received: 08/14/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution 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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2346802
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346802-02
Client ID: CAN 129 SHELF 10
Sample Location:

Date Collected: 08/11/23 18:00
Date Received: 08/14/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346802
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346802-02
Client ID: CAN 129 SHELF 10
Sample Location:

Date Collected: 08/11/23 18:00
Date Received: 08/14/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield 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
Isopropylbenzene	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
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-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
p-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
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346802
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346802-02
Client ID: CAN 129 SHELF 10
Sample Location:

Date Collected: 08/11/23 18:00
Date Received: 08/14/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	96		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346802
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346802-02
Client ID: CAN 129 SHELF 10
Sample Location:

Date Collected: 08/11/23 18:00
Date Received: 08/14/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/15/23 17:37
Analyst: RAY

	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

Project Name: BATCH CANISTER CERTIFICATION **Lab Number:** L2346802

Project Number: CANISTER QC BAT **Report Date:** 09/11/23

Air Canister Certification Results

Lab ID: L2346802-02
Client ID: CAN 129 SHELF 10
Sample Location:

Date Collected: 08/11/23 18:00
Date Received: 08/14/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield 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
p/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
Project Number: CANISTER QC BAT
Lab Number: L2346802
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346802-02
Client ID: CAN 129 SHELF 10
Sample Location:

Date Collected: 08/11/23 18:00
Date Received: 08/14/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	94		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346961
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346961-06
Client ID: CAN 2362 SHELF 9
Sample Location:

Date Collected: 08/15/23 09:00
Date Received: 08/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/17/23 23:01
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield 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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346961
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346961-06
Client ID: CAN 2362 SHELF 9
Sample Location:

Date Collected: 08/15/23 09:00
Date Received: 08/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution 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
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346961
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346961-06
Client ID: CAN 2362 SHELF 9
Sample Location:

Date Collected: 08/15/23 09:00
Date Received: 08/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346961
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346961-06
Client ID: CAN 2362 SHELF 9
Sample Location:

Date Collected: 08/15/23 09:00
Date Received: 08/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield 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
Isopropylbenzene	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
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-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
p-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
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346961
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346961-06
Client ID: CAN 2362 SHELF 9
Sample Location:

Date Collected: 08/15/23 09:00
Date Received: 08/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346961
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346961-06
Client ID: CAN 2362 SHELF 9
Sample Location:

Date Collected: 08/15/23 09:00
Date Received: 08/15/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/17/23 23:01
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution 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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2346961
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346961-06
Client ID: CAN 2362 SHELF 9
Sample Location:

Date Collected: 08/15/23 09:00
Date Received: 08/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield 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
p/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
Project Number: CANISTER QC BAT
Lab Number: L2346961
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2346961-06
Client ID: CAN 2362 SHELF 9
Sample Location:

Date Collected: 08/15/23 09:00
Date Received: 08/15/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	79		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2347593
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2347593-01
Client ID: CAN 3421 SHELF 1
Sample Location:

Date Collected: 08/16/23 18:00
Date Received: 08/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/17/23 18:36
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
Volatile Organics in Air - Mansfield 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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2347593
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2347593-01
Client ID: CAN 3421 SHELF 1
Sample Location:

Date Collected: 08/16/23 18:00
Date Received: 08/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution 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
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2347593
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2347593-01
Client ID: CAN 3421 SHELF 1
Sample Location:

Date Collected: 08/16/23 18:00
Date Received: 08/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								
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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2347593
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2347593-01
Client ID: CAN 3421 SHELF 1
Sample Location:

Date Collected: 08/16/23 18:00
Date Received: 08/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield 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
Isopropylbenzene	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
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-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
p-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
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2347593
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2347593-01
Client ID: CAN 3421 SHELF 1
Sample Location:

Date Collected: 08/16/23 18:00
Date Received: 08/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air - Mansfield Lab								

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					

No Tentatively Identified Compounds

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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2347593
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2347593-01
Client ID: CAN 3421 SHELF 1
Sample Location:

Date Collected: 08/16/23 18:00
Date Received: 08/17/23
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/17/23 18:36
Analyst: RAY

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution 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

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT
Lab Number: L2347593
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2347593-01
Client ID: CAN 3421 SHELF 1
Sample Location:

Date Collected: 08/16/23 18:00
Date Received: 08/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield 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
p/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
Project Number: CANISTER QC BAT
Lab Number: L2347593
Report Date: 09/11/23

Air Canister Certification Results

Lab ID: L2347593-01
Client ID: CAN 3421 SHELF 1
Sample Location:

Date Collected: 08/16/23 18:00
Date Received: 08/17/23
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	98		60-140
chlorobenzene-d5	96		60-140

Project Name: SHRUB OAK
Project Number: Not Specified

Lab Number: L2350542
Report Date: 09/11/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2350542-01A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2350542-02A	Canister - 2.7 Liter	NA	NA			Y	Absent		CANCELLED()
L2350542-03A	Canister - 2.7 Liter	NA	NA			Y	Absent		TO15-LL(30)
L2350542-04A	Canister - 2.7 Liter	NA	NA			Y	Absent		CANCELLED()
L2350542-05A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2350542-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2350542-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2350542-08A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2350542-09A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2350542-10A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2350542-11A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2350542-12A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2350542-13A	Canister - 2.7 Liter	NA	NA			Y	Absent		CLEAN-FEE()
L2350542-14A	Canister - 2.7 Liter	NA	NA			Y	Absent		CLEAN-FEE()
L2350542-15A	Canister - 2.7 Liter	NA	NA			Y	Absent		CLEAN-FEE()

*Values in parentheses indicate holding time in days

Project Name:	SHRUB OAK	**Lab Number:**	L2350542
Project Number:	Not Specified	**Report Date:**	09/11/23

GLOSSARY

Acronyms

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.
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.)
LOQ	- 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.
MS	- 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: Data Usability Report

Project Name:	SHRUB OAK	**Lab Number:**	L2350542
Project Number:	Not Specified	**Report Date:**	09/11/23

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 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, Benz(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.

B - 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 concentration found in the blank. For DOD-related projects, 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 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).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - 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. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report

Project Name:	SHRUB OAK	**Lab Number:**	L2350542
Project Number:	Not Specified	**Report Date:**	09/11/23

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.

V - 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: Data Usability Report

REFERENCES

48 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.

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 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 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, 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 I, 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, 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.

AIR ANALYSIS

PAGE 1 OF 2

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/31/23

ALPHA Job #: L2350542

Client Information

Client: Roux
Address: 209 N Shafter St
Islandia NY 11749
Phone: 631-232-2600
Fax:
Email: SLoonie@roux-inc.com; CHoelzli@roux-inc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Shub Oak
Project Location: 1650 E Main St
Project #:
Project Manager: Stephen Loonie
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX
☑ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs	Fixed Gases ☐	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
50542-01	MP-6	~~8/24/23~~	835	1635	29.69	-14.30	SV	~~MH~~ SL	2.7L	01048	2308	X					
-02	MP-13		~~835~~ 1021	~~1635~~ 1720	29.69	-29.10	SV	MH		01646	3141	Y					
-03	MP-8R		1154	2000	-29.37	-8.53	SV			470	01535	Y					
-04	MP-16		1125	1625	-29.84	-29.50	SV			2075	01494	Y					
-05	MP-6_IA		9:36	1730	-29.60	-7.90	AA			2313	01743	Y					
-06	MP-1_IA		9:24	1724	-29.80	~~-7.98~~ -9.77	AA			550	01117	X					
-07	VMP-2_IA		929	1729	-29.75	~~-8~~ -8.17	AA			374	01646	Y					
-08	MP-13_IA		1000	1800	-29.50	~~-8~~ -7.98	AA			2822	01508	X					
-09	OA-1		1140	1940	-29.46	-5.50	AA			2220	01119	X					
-10	MP-8R_IA		1200	2001	-29.94	-9.98	AA			3714	01585	X					

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
MPW ALPHA	8/30/23 1645	MPW ALPHA	~~8/30/23~~ 8/30/23 1645
Anthony Green	8/30 2040	Anthony Green	AUG 30 2023 2025
	8/30/23 2345		8/30/23 2345

AIR ANALYSIS

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA ANALYTICAL

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 8/31/23

ALPHA Job #: L2350542

Client Information

Client: Roux
Address: 209 Shafter St
Islandia NY 11749
Phone: 631 232 2600
Fax: sleonie@rouxinc
Email: cHoelzli@rouxinc.

❑ These samples have been previously analyzed by Alpha

Project Information

Project Name: Shrub Oak
Project Location: 1650 E Main St.
Project #:
Project Manager: Stephen Leonie
ALPHA Quote #:

Turn-Around Time

❑ Standard ❑ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

❑ FAX
❑ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
❑ EMAIL (standard pdf report)
❑ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

❑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ❑

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date (8/29/23)	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH ❑ Subtract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
50542-11	MP-16_IA	~~8/30/23~~	1037	1833	-29.63	-11.00	AA	MH	2.7	2383	01774	X					
-12	Dup_082923	~~8/30/23~~ 8/29/23	1201	2002	-29.63	-6.43	AA	MH	2.7	3844	0286	X					

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
[signature]	8/30/23 1645	MPZA ALPHA	8/30 16:45
MPZA ALPHA	8/30 2020	Anthony Green	AUG 30 2023 2025
Anthony Green	8/30/23 2345	[signature]	8/30/23 2345
[signature]	8/31/23 0430	[signature] AAL	8/31/23 04:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.