



ANALYTICAL REPORT

Lab Number:	L1926749
Client:	Tenen Environmental, LLC 121 West 27th Street Suite 702 New York City, NY 10001
ATTN:	Matthew Carroll
Phone:	(646) 606-2332
Project Name:	965 MANARONECK AVE
Project Number:	965 MANARONECK AVE
Report Date:	06/26/19

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



Project Name: 965 MANARONECK AVE
Project Number: 965 MANARONECK AVE

Lab Number: L1926749
Report Date: 06/26/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1926749-01	SV-1	SOIL_VAPOR	MANARONECK, NY	06/18/19 14:45	06/19/19
L1926749-02	SV-2	SOIL_VAPOR	MANARONECK, NY	06/18/19 14:55	06/19/19
L1926749-03	SV-3	SOIL_VAPOR	MANARONECK, NY	06/18/19 14:50	06/19/19

Project Name: 965 MANARONECK AVE
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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: 965 MANARONECK AVE
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Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on June 17, 2019. The canister certification results are provided as an addendum.

L1926749-01 through -03: The Acetone result should be considered estimated due to co-elution with a non-target peak.

L1926749-03: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

WG1252879-5: The Acetone result should be considered estimated due to co-elution with a non-target peak.

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: 06/26/19

AIR

Project Name: 965 MANARONECK AVE
Project Number: 965 MANARONECK AVE

Lab Number: L1926749
Report Date: 06/26/19

SAMPLE RESULTS

Lab ID: L1926749-01
 Client ID: SV-1
 Sample Location: MANARONECK, NY

Date Collected: 06/18/19 14:45
 Date Received: 06/19/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 06/25/19 21:50
 Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.539	0.200	--	2.67	0.989	--		1
Chloromethane	0.453	0.200	--	0.935	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	0.029	0.020	--	0.074	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
Ethyl Alcohol	76.9	5.00	--	145	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	124	1.00	--	295	2.38	--		1
Trichlorofluoromethane	0.272	0.050	--	1.53	0.281	--		1
iso-Propyl Alcohol	10.4	0.500	--	25.6	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	7.10	0.500	--	21.5	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	0.023	0.020	--	0.091	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.483	0.200	--	1.50	0.623	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.095	0.050	--	0.728	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



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SAMPLE RESULTS

Lab ID: L1926749-01
 Client ID: SV-1
 Sample Location: MANARONECK, NY

Date Collected: 06/18/19 14:45
 Date Received: 06/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	10.3	0.500	--	30.4	1.47	--		1
cis-1,2-Dichloroethene	0.023	0.020	--	0.091	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.222	0.020	--	1.08	0.098	--		1
Tetrahydrofuran	0.625	0.500	--	1.84	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.520	0.200	--	1.83	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.603	0.100	--	1.93	0.319	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Cyclohexane	0.272	0.200	--	0.936	0.688	--		1
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
2,2,4-Trimethylpentane	0.510	0.200	--	2.38	0.934	--		1
Heptane	0.330	0.200	--	1.35	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	1.25	0.500	--	5.12	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	1.41	0.050	--	5.31	0.188	--		1
2-Hexanone	0.605	0.200	--	2.48	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	13.8	0.020	--	93.6	0.136	--		1



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SAMPLE RESULTS

Lab ID: L1926749-01
 Client ID: SV-1
 Sample Location: MANARONECK, NY

Date Collected: 06/18/19 14:45
 Date Received: 06/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.341	0.020	--	1.48	0.087	--		1
p/m-Xylene	1.27	0.040	--	5.52	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	1.72	0.020	--	7.47	0.087	--		1
Styrene	0.102	0.020	--	0.434	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.448	0.020	--	1.95	0.087	--		1
4-Ethyltoluene	0.086	0.020	--	0.423	0.098	--		1
1,3,5-Trimethylbenzene	0.082	0.020	--	0.403	0.098	--		1
1,2,4-Trimethylbenzene	0.335	0.020	--	1.65	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-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	107		60-140
bromochloromethane	112		60-140
chlorobenzene-d5	108		60-140



Project Name: 965 MANARONECK AVE
Project Number: 965 MANARONECK AVE

Lab Number: L1926749
Report Date: 06/26/19

SAMPLE RESULTS

Lab ID: L1926749-02
 Client ID: SV-2
 Sample Location: MANARONECK, NY

Date Collected: 06/18/19 14:55
 Date Received: 06/19/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 06/25/19 22:30
 Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	0.525	0.200	--	2.60	0.989	--		1
Chloromethane	0.933	0.200	--	1.93	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	0.021	0.020	--	0.054	0.051	--		1
1,3-Butadiene	0.672	0.020	--	1.49	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	152	5.00	--	286	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	140	1.00	--	333	2.38	--		1
Trichlorofluoromethane	0.266	0.050	--	1.49	0.281	--		1
iso-Propyl Alcohol	3.82	0.500	--	9.39	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	7.19	0.500	--	21.8	1.52	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Methylene chloride	4.85	0.500	--	16.8	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	0.625	0.200	--	1.95	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.090	0.050	--	0.690	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



Project Name: 965 MANARONECK AVE**Lab Number:** L1926749**Project Number:** 965 MANARONECK AVE**Report Date:** 06/26/19**SAMPLE RESULTS**

Lab ID: L1926749-02
 Client ID: SV-2
 Sample Location: MANARONECK, NY

Date Collected: 06/18/19 14:55
 Date Received: 06/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	6.28	0.500	--	18.5	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	0.500	0.500	--	1.47	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.479	0.200	--	1.69	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	0.867	0.100	--	2.77	0.319	--		1
Carbon tetrachloride	0.081	0.020	--	0.510	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
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
2,2,4-Trimethylpentane	0.403	0.200	--	1.88	0.934	--		1
Heptane	0.320	0.200	--	1.31	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	1.13	0.500	--	4.63	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	1.34	0.050	--	5.05	0.188	--		1
2-Hexanone	0.579	0.200	--	2.37	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	2.88	0.020	--	19.5	0.136	--		1



Project Name: 965 MANARONECK AVE
Project Number: 965 MANARONECK AVE

Lab Number: L1926749
Report Date: 06/26/19

SAMPLE RESULTS

Lab ID: L1926749-02
 Client ID: SV-2
 Sample Location: MANARONECK, NY

Date Collected: 06/18/19 14:55
 Date Received: 06/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.406	0.020	--	1.76	0.087	--		1
p/m-Xylene	1.67	0.040	--	7.25	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	2.28	0.020	--	9.90	0.087	--		1
Styrene	0.091	0.020	--	0.387	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.616	0.020	--	2.68	0.087	--		1
4-Ethyltoluene	0.073	0.020	--	0.359	0.098	--		1
1,3,5-Trimethylbenzene	0.067	0.020	--	0.329	0.098	--		1
1,2,4-Trimethylbenzene	0.280	0.020	--	1.38	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-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	107		60-140
bromochloromethane	112		60-140
chlorobenzene-d5	108		60-140



Project Name: 965 MANARONECK AVE
Project Number: 965 MANARONECK AVE

Lab Number: L1926749
Report Date: 06/26/19

SAMPLE RESULTS

Lab ID: L1926749-03 D
 Client ID: SV-3
 Sample Location: MANARONECK, NY

Date Collected: 06/18/19 14:50
 Date Received: 06/19/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 06/25/19 23:47
 Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	1.20	1.00	--	2.48	2.07	--		5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.250	--	ND	1.75	--		5
Vinyl chloride	ND	0.100	--	ND	0.256	--		5
1,3-Butadiene	ND	0.100	--	ND	0.221	--		5
Bromomethane	ND	0.100	--	ND	0.388	--		5
Chloroethane	ND	0.500	--	ND	1.32	--		5
Ethyl Alcohol	104	25.0	--	196	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	674	5.00	--	1600	11.9	--		5
Trichlorofluoromethane	0.285	0.250	--	1.60	1.40	--		5
iso-Propyl Alcohol	5.95	2.50	--	14.6	6.15	--		5
1,1-Dichloroethene	ND	0.100	--	ND	0.396	--		5
tert-Butyl Alcohol	14.8	2.50	--	44.9	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
1,2-Dichloroethene (total)	ND	0.100	--	ND	0.396	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
1,3-Dichloropropene, Total	ND	0.100	--	ND	0.454	--		5
Carbon disulfide	ND	1.00	--	ND	3.11	--		5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.250	--	ND	1.92	--		5
trans-1,2-Dichloroethene	ND	0.100	--	ND	0.396	--		5
1,1-Dichloroethane	ND	0.100	--	ND	0.405	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5



Project Name: 965 MANARONECK AVE**Lab Number:** L1926749**Project Number:** 965 MANARONECK AVE**Report Date:** 06/26/19**SAMPLE RESULTS**

Lab ID: L1926749-03 D
 Client ID: SV-3
 Sample Location: MANARONECK, NY

Date Collected: 06/18/19 14:50
 Date Received: 06/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
2-Butanone	27.4	2.50	--	80.8	7.37	--		5
cis-1,2-Dichloroethene	ND	0.100	--	ND	0.396	--		5
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5
Chloroform	ND	0.100	--	ND	0.488	--		5
Tetrahydrofuran	ND	2.50	--	ND	7.37	--		5
1,2-Dichloroethane	ND	0.100	--	ND	0.405	--		5
n-Hexane	1.03	1.00	--	3.63	3.52	--		5
1,1,1-Trichloroethane	ND	0.100	--	ND	0.546	--		5
Benzene	1.35	0.500	--	4.31	1.60	--		5
Carbon tetrachloride	ND	0.100	--	ND	0.629	--		5
Cyclohexane	ND	1.00	--	ND	3.44	--		5
1,2-Dichloropropane	ND	0.100	--	ND	0.462	--		5
Bromodichloromethane	ND	0.100	--	ND	0.670	--		5
1,4-Dioxane	ND	0.500	--	ND	1.80	--		5
Trichloroethene	ND	0.100	--	ND	0.537	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	ND	1.00	--	ND	4.10	--		5
cis-1,3-Dichloropropene	ND	0.100	--	ND	0.454	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	0.100	--	ND	0.454	--		5
1,1,2-Trichloroethane	ND	0.100	--	ND	0.546	--		5
Toluene	1.65	0.250	--	6.22	0.942	--		5
2-Hexanone	2.14	1.00	--	8.77	4.10	--		5
Dibromochloromethane	ND	0.100	--	ND	0.852	--		5
1,2-Dibromoethane	ND	0.100	--	ND	0.769	--		5
Tetrachloroethene	1.50	0.100	--	10.2	0.678	--		5



Project Name: 965 MANARONECK AVE
Project Number: 965 MANARONECK AVE

Lab Number: L1926749
Report Date: 06/26/19

SAMPLE RESULTS

Lab ID: L1926749-03 D
 Client ID: SV-3
 Sample Location: MANARONECK, NY

Date Collected: 06/18/19 14:50
 Date Received: 06/19/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Chlorobenzene	ND	0.500	--	ND	2.30	--		5
Ethylbenzene	0.490	0.100	--	2.13	0.434	--		5
p/m-Xylene	1.90	0.200	--	8.25	0.869	--		5
Bromoform	ND	0.100	--	ND	1.03	--		5
Xylene (Total)	2.66	0.100	--	11.6	0.434	--		5
Styrene	0.140	0.100	--	0.596	0.426	--		5
1,1,2,2-Tetrachloroethane	ND	0.100	--	ND	0.687	--		5
o-Xylene	0.755	0.100	--	3.28	0.434	--		5
4-Ethyltoluene	ND	0.100	--	ND	0.492	--		5
1,3,5-Trimethylbenzene	ND	0.100	--	ND	0.492	--		5
1,2,4-Trimethylbenzene	0.305	0.100	--	1.50	0.492	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	0.100	--	ND	0.601	--		5
1,4-Dichlorobenzene	ND	0.100	--	ND	0.601	--		5
1,2-Dichlorobenzene	ND	0.100	--	ND	0.601	--		5
1,2,4-Trichlorobenzene	ND	0.250	--	ND	1.86	--		5
Hexachlorobutadiene	ND	0.250	--	ND	2.67	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	99		60-140
bromochloromethane	110		60-140
chlorobenzene-d5	101		60-140



Project Name: 965 MANARONECK AVE

Lab Number: L1926749

Project Number: 965 MANARONECK AVE

Report Date: 06/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/25/19 16:03

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG1252879-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	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
Ethyl Alcohol	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	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	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



Project Name: 965 MANARONECK AVE

Lab Number: L1926749

Project Number: 965 MANARONECK AVE

Report Date: 06/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/25/19 16:03

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG1252879-4								
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		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
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
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
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	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	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1

Project Name: 965 MANARONECK AVE

Lab Number: L1926749

Project Number: 965 MANARONECK AVE

Report Date: 06/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/25/19 16:03

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG1252879-4								
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
Xylene (Total)	ND	0.020	--	ND	0.087	--		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
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
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



Project Name: 965 MANARONECK AVE

Lab Number: L1926749

Project Number: 965 MANARONECK AVE

Report Date: 06/26/19

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/25/19 16:03

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-03 Batch: WG1252879-4								
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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 965 MANARONECK AVE

Lab Number: L1926749

Project Number: 965 MANARONECK AVE

Report Date: 06/26/19

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG1252879-3								
Propylene	131	Q	-		70-130	-		25
Dichlorodifluoromethane	114		-		70-130	-		25
Chloromethane	115		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	108		-		70-130	-		25
Vinyl chloride	104		-		70-130	-		25
1,3-Butadiene	117		-		70-130	-		25
Bromomethane	100		-		70-130	-		25
Chloroethane	108		-		70-130	-		25
Ethyl Alcohol	121		-		40-160	-		25
Vinyl bromide	109		-		70-130	-		25
Acetone	88		-		40-160	-		25
Trichlorofluoromethane	107		-		70-130	-		25
iso-Propyl Alcohol	94		-		40-160	-		25
Acrylonitrile	113		-		70-130	-		25
1,1-Dichloroethene	113		-		70-130	-		25
tert-Butyl Alcohol ¹	111		-		70-130	-		25
Methylene chloride	118		-		70-130	-		25
3-Chloropropene	116		-		70-130	-		25
Carbon disulfide	108		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	109		-		70-130	-		25
trans-1,2-Dichloroethene	104		-		70-130	-		25
1,1-Dichloroethane	101		-		70-130	-		25
Methyl tert butyl ether	93		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 965 MANARONECK AVE

Lab Number: L1926749

Project Number: 965 MANARONECK AVE

Report Date: 06/26/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG1252879-3								
Vinyl acetate	106		-		70-130	-		25
2-Butanone	93		-		70-130	-		25
cis-1,2-Dichloroethene	91		-		70-130	-		25
Ethyl Acetate	110		-		70-130	-		25
Chloroform	96		-		70-130	-		25
Tetrahydrofuran	90		-		70-130	-		25
1,2-Dichloroethane	94		-		70-130	-		25
n-Hexane	77		-		70-130	-		25
1,1,1-Trichloroethane	82		-		70-130	-		25
Benzene	96		-		70-130	-		25
Carbon tetrachloride	84		-		70-130	-		25
Cyclohexane	104		-		70-130	-		25
Dibromomethane ¹	86		-		70-130	-		25
1,2-Dichloropropane	98		-		70-130	-		25
Bromodichloromethane	88		-		70-130	-		25
1,4-Dioxane	97		-		70-130	-		25
Trichloroethene	95		-		70-130	-		25
2,2,4-Trimethylpentane	101		-		70-130	-		25
cis-1,3-Dichloropropene	85		-		70-130	-		25
4-Methyl-2-pentanone	99		-		70-130	-		25
trans-1,3-Dichloropropene	103		-		70-130	-		25
1,1,2-Trichloroethane	103		-		70-130	-		25
Toluene	104		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 965 MANARONECK AVE

Lab Number: L1926749

Project Number: 965 MANARONECK AVE

Report Date: 06/26/19

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG1252879-3								
2-Hexanone	110		-		70-130	-		25
Dibromochloromethane	111		-		70-130	-		25
1,2-Dibromoethane	105		-		70-130	-		25
Tetrachloroethene	103		-		70-130	-		25
1,1,1,2-Tetrachloroethane	92		-		70-130	-		25
Chlorobenzene	107		-		70-130	-		25
Ethylbenzene	108		-		70-130	-		25
p/m-Xylene	103		-		70-130	-		25
Bromoform	123		-		70-130	-		25
Styrene	107		-		70-130	-		25
1,1,2,2-Tetrachloroethane	106		-		70-130	-		25
o-Xylene	105		-		70-130	-		25
1,2,3-Trichloropropane ¹	94		-		70-130	-		25
Isopropylbenzene	99		-		70-130	-		25
Bromobenzene ¹	94		-		70-130	-		25
4-Ethyltoluene	105		-		70-130	-		25
1,3,5-Trimethylbenzene	105		-		70-130	-		25
1,2,4-Trimethylbenzene	104		-		70-130	-		25
Benzyl chloride	120		-		70-130	-		25
1,3-Dichlorobenzene	116		-		70-130	-		25
1,4-Dichlorobenzene	113		-		70-130	-		25
sec-Butylbenzene	106		-		70-130	-		25
p-Isopropyltoluene	86		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 965 MANARONECK AVE

Project Number: 965 MANARONECK AVE

Lab Number: L1926749

Report Date: 06/26/19

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 Batch: WG1252879-3								
1,2-Dichlorobenzene	103		-		70-130	-		25
n-Butylbenzene	99		-		70-130	-		25
1,2,4-Trichlorobenzene	114		-		70-130	-		25
Naphthalene	82		-		70-130	-		25
1,2,3-Trichlorobenzene	91		-		70-130	-		25
Hexachlorobutadiene	98		-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 965 MANARONECK AVE

Project Number: 965 MANARONECK AVE

Lab Number: L1926749

Report Date: 06/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1252879-5 QC Sample: L1926749-02 Client ID: SV-2						
Dichlorodifluoromethane	0.525	0.509	ppbV	3		25
Chloromethane	0.933	0.935	ppbV	0		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	0.021	ND	ppbV	NC		25
1,3-Butadiene	0.672	0.689	ppbV	2		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	152	164	ppbV	8		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	140	141	ppbV	1		25
Trichlorofluoromethane	0.266	0.277	ppbV	4		25
iso-Propyl Alcohol	3.82	3.82	ppbV	0		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol ¹	7.19	7.18	ppbV	0		25
Methylene chloride	4.85	4.83	ppbV	0		25
1,2-Dichloroethene (total)	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	0.625	0.621	ppbV	1		25
1,3-Dichloropropene, Total	ND	ND	ppbV	NC		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.090	0.091	ppbV	1		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 965 MANARONECK AVE

Project Number: 965 MANARONECK AVE

Lab Number: L1926749

Report Date: 06/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1252879-5 QC Sample: L1926749-02 Client ID: SV-2						
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	6.28	6.28	ppbV	0		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	0.500	0.511	ppbV	2		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	0.479	0.494	ppbV	3		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.867	0.875	ppbV	1		25
Carbon tetrachloride	0.081	0.069	ppbV	16		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
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	0.403	0.409	ppbV	1		25
Heptane	0.320	0.303	ppbV	5		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	1.13	1.11	ppbV	2		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 965 MANARONECK AVE

Project Number: 965 MANARONECK AVE

Lab Number: L1926749

Report Date: 06/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1252879-5 QC Sample: L1926749-02 Client ID: SV-2						
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	1.34	1.33	ppbV	1		25
2-Hexanone	0.579	0.572	ppbV	1		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	2.88	2.89	ppbV	0		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.406	0.404	ppbV	0		25
p/m-Xylene	1.67	1.66	ppbV	1		25
Bromoform	ND	ND	ppbV	NC		25
Xylene (Total)	2.28	2.26	ppbV	1		25
Styrene	0.091	0.093	ppbV	2		25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.616	0.607	ppbV	1		25
4-Ethyltoluene	0.073	0.071	ppbV	3		25
1,3,5-Trimethylbenzene	0.067	0.069	ppbV	3		25
1,2,4-Trimethylbenzene	0.280	0.274	ppbV	2		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 965 MANARONECK AVE

Project Number: 965 MANARONECK AVE

Lab Number: L1926749

Report Date: 06/26/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1252879-5 QC Sample: L1926749-02 Client ID: SV-2						
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: 965 MANARONECK AVE

Project Number: 965 MANARONECK AVE

Serial_No:06261913:25
Lab Number: L1926749

Report Date: 06/26/19

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 Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1926749-01	SV-1	0803	Flow 4	06/17/19	294532		-	-	-	Pass	4.5	4.7	4
L1926749-01	SV-1	2184	2.7L Can	06/17/19	294532	L1925088-02	Pass	-29.2	-4.2	-	-	-	-
L1926749-02	SV-2	0396	Flow 5	06/17/19	294532		-	-	-	Pass	4.5	4.6	2
L1926749-02	SV-2	2219	2.7L Can	06/17/19	294532	L1925088-02	Pass	-29.0	-6.4	-	-	-	-
L1926749-03	SV-3	01113	Flow 1	06/17/19	294532		-	-	-	Pass	4.5	4.6	2
L1926749-03	SV-3	2384	2.7L Can	06/17/19	294532	L1925088-02	Pass	-29.0	-3.5	-	-	-	-

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

Lab Number: L1925088
Report Date: 06/26/19

Air Canister Certification Results

Lab ID: L1925088-02
 Client ID: CAN 564 SHELF 2
 Sample Location:

Date Collected: 06/11/19 16:00
 Date Received: 06/12/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 06/12/19 09:28
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



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

Lab Number: L1925088
Report Date: 06/26/19

Air Canister Certification Results

Lab ID: L1925088-02
 Client ID: CAN 564 SHELF 2
 Sample Location:

Date Collected: 06/11/19 16:00
 Date Received: 06/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
Dibromomethane	ND	0.200	--	ND	1.42	--		1



Project Name: BATCH CANISTER CERTIFICATION
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Lab Number: L1925088
Report Date: 06/26/19

Air Canister Certification Results

Lab ID: L1925088-02
 Client ID: CAN 564 SHELF 2
 Sample Location:

Date Collected: 06/11/19 16:00
 Date Received: 06/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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
o-Xylene	ND	0.200	--	ND	0.869	--		1

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

Lab Number: L1925088
Report Date: 06/26/19

Air Canister Certification Results

Lab ID: L1925088-02
 Client ID: CAN 564 SHELF 2
 Sample Location:

Date Collected: 06/11/19 16:00
 Date Received: 06/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
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: L1925088
Report Date: 06/26/19

Air Canister Certification Results

Lab ID: L1925088-02
 Client ID: CAN 564 SHELF 2
 Sample Location:

Date Collected: 06/11/19 16:00
 Date Received: 06/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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	60		60-140
Bromochloromethane	67		60-140
chlorobenzene-d5	86		60-140



Project Name: BATCH CANISTER CERTIFICATION
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Lab Number: L1925088
Report Date: 06/26/19

Air Canister Certification Results

Lab ID: L1925088-02
 Client ID: CAN 564 SHELF 2
 Sample Location:

Date Collected: 06/11/19 16:00
 Date Received: 06/12/19
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 06/12/19 09:28
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
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
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
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



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

Lab Number: L1925088
Report Date: 06/26/19

Air Canister Certification Results

Lab ID: L1925088-02
 Client ID: CAN 564 SHELF 2
 Sample Location:

Date Collected: 06/11/19 16:00
 Date Received: 06/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	0.050	--	ND	0.188	--		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-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



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

Lab Number: L1925088
Report Date: 06/26/19

Air Canister Certification Results

Lab ID: L1925088-02
 Client ID: CAN 564 SHELF 2
 Sample Location:

Date Collected: 06/11/19 16:00
 Date Received: 06/12/19
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
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	64		60-140
bromochloromethane	77		60-140
chlorobenzene-d5	84		60-140

Project Name: 965 MANARONECK AVE

Project Number: 965 MANARONECK AVE

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

N/A Present/Intact

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1926749-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-SIM(30)
L1926749-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-SIM(30)
L1926749-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-SIM(30)

Project Name: 965 MANARONECK AVE
Project Number: 965 MANARONECK AVE

Lab Number: L1926749
Report Date: 06/26/19

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.
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.

Footnotes

Report Format: Data Usability Report



Project Name: 965 MANARONECK AVE
Project Number: 965 MANARONECK AVE

Lab Number: L1926749
Report Date: 06/26/19

- 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.

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'.

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.

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. 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 Condensation Product".
- 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.
- 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.
- 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.

Report Format: Data Usability Report



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

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

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

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

Mansfield Facility

SM 2540D: TSS

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

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

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

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

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

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

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

Non-Potable Water

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

EPA 624.1: Volatile Halocarbons & Aromatics,

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

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

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

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.

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

CHAIN OF CUSTODY

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

PAGE _____ OF _____

Date Rec'd in Lab: 6/20/19

ALPHA Job #: L1926749

Client Information

Client: Tenen Env'l

Address:

Phone:

Fax:

Email: mcarroll@tenen-env.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

Project Information

Project Name: 965 Manaroneck Ave

Project Location: Manaroneck, NY

Project #: 965 Manaroneck Ave

Project Manager: Matt Carroll

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

ANALYSIS

TO-15
 TO-15 SIM
 APH (Subject Non-Halogenated HCs)
 Fixed Gases
 Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
926749-01	SV-1	6/18/19	0648	1445	30.19	4.69	SV	AK	2.7	2184	0803	X					
-02	SV-2	↓	0655	1455	29.85	7.05	↓	↓	↓	2219	0396	X					
-03	SV-3	↓	0703	1450	21.93	4.15	↓	↓	↓	2384	0113	X					

***SAMPLE MATRIX CODES**

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

Container Type

CS

Relinquished By:

Date/Time

[Signature] 6-19-19 9:15
 6-19-19 1530
 G20 BW

Received By:

Date/Time:

[Signature] 6-19-19 9:15
 Ron Elbarh 6/20/19 0300

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.