ENVIRONMENT
& HEALTH

Sent Electronically to linda.stanek@wisconsin.gov and WDNR Portal

Linda Stanek
Hydrogeologist
Wisconsin Department of Natural Resources
1027 W St. Paul Avenue
Milwaukee, WI 53233

VAPOR INTRUSION RESULTS
FS APARTMENTS, LLC
147 EAST BECHER STREET ("site")
MILWAUKEE, WISCONSIN 53207
BRRTS 02-41-589088

July 14, 2025

Ramboll
234 West Florida St., 5th Floor
Milwaukee, WI 53204
USA

Phone: 414-837-3607
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Ref. 1690023383

Dear Ms. Stanek:

Ramboll received the sub-slab vapor sampling and indoor air analytical results from the sampling of four sub-slab and three indoor air samples in Building 7L at the site, which was completed from June 30 to July 7, 2025. This transmittal is submitted following the sample results notification requirements outlined in Wisconsin Administrative Code Chapter NR 716.14(2). The laboratory analytical results are summarized in **Table 1**, the sampling locations are illustrated in **Figure 1**, and the laboratory reports are provided in **Attachment A**. A discussion of these results will be included in a forthcoming letter report for BRRTS number 02-41-589088.

Please let me know if you have any questions or comments.

Sincerely yours,

Richard Mazurkiewicz
Managing Consultant

D 262 901 3502
rmazurkiewicz@ramboll.com

c: Nick Orthmann, Bear Development, LLC

Attachments:
Table 1 - Indoor Air, Outdoor Air And Sub-Slab Analytical Results
Figure 1 – Sub-Slab And Indoor Air Vapor Sampling Locations
Attachment A – Laboratory Analytical Reports

TABLE 1
INDOOR AIR, OUTDOOR AIR AND SUB-SLAB ANALYTICAL RESULTS
FS Apartments, LLC
147 East Becher Street, Milwaukee, Wisconsin

Parameters		Indoor Air Results			Sub-Slab Results				USEPA RSL Basis(2)	BUILDING 7L - INDOOR AIR				BUILDING 7L - SUB-SLAB VAPOR			
					Residential		Small Commercial			OA-7L	IA-7L-2	IA-7L-3	IA-7L-4	SS7L-1	SS7L-2	SS7L-3	SS7L-4
Analyte (µg/m^3)	CAS No.	Residential Indoor Air VAL	Small Commercial Indoor Air VAL	Large Commercial / Industrial Indoor Air VAL	Sub-Slab Vapor VRSL (33.3 x)	Sub-Slab Vapor VRSL (33.3 x)	Sub-Slab Vapor VRSL (33.3 x)	Sub-Slab Vapor VRSL (33.3 x)	--	06/30/2025 to 07/07/2025(1)	06/30/2025 to 07/07/2025(1)	06/30/2025 to 07/07/2025(1)	06/30/2025 to 07/07/2025(1)	07/07/2025	07/07/2025	07/07/2025	07/07/2025
Acetone	67-64-1	--	--	--	--	--	--	--	--	NA	NA	NA	NA	73	130	95	89
Benzene	71-43-2	3.6	16	16	**120**	1,000	**520**	4,400	c	<0.50	<0.50	<0.50	<0.50	16	17	11	11
Carbon Tetrachloride	56-23-5	4.7	20	20	**160**	3,500	**680**	15,000	c	0.30	0.23	0.25	0.26	<7.2	<7.2	<6.5	<8.0
Chloroform	67-66-3	1.2	5.3	5.3	**41**	3,400	**180**	14,000	c	<0.13	<0.13	<0.13	<0.13	**120 A**	**260 A,B**	**190 A,B**	34
Cyclohexane	110-82-7	6,300	26,000	26,000	--	**210,000**	--	**880,000**	nc	<0.18	1.4	2.1	0.61	13	24	22	18
Dichlorodifluoromethane (Freon 12)	75-71-8	100	440	440	--	**3,500**	--	**15,000**	nc	NA	NA	NA	NA	12	19	5.5	<6.3
Ethanol	64-17-5	--	--	--	--	--	--	--	--	<0.97	<0.97	<0.97	<0.97	120	240	130	200
Ethylbenzene	100-41-4	11	49	49	**370**	35,000	**1,600**	150,000	c	<0.14	0.63	0.66	0.42	16	21	14	14
Ethyltoluene, 4-	622-96-8	--	--	--	--	--	--	--	--	NA	NA	NA	NA	15	18	14	15
Heptane, n-	142-82-5	420	1,800	1,800	--	**14,000**	--	**58,000**	nc	0.18	15	21	6.6	12	16	16	16
Hexane, N-	110-54-3	730	3,100	3,100	--	**24,000**	--	**100,000**	nc	0.22	0.30	0.37	0.56	28	33	50	23
Isopropanol	67-63-0	210	880	880	--	**7,000**	--	**29,000**	nc	NA	NA	NA	NA	<11	22	10	<12
Methyl Ethyl Ketone (2-Butanone)	78-93-3	5,200	22,000	22,000	--	**170,000**	--	**730,000**	nc	0.37	3.1	3.1	1.7	28	30	29	29
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	3,100	13,000	13,000	--	**100,000**	--	**440,000**	nc	<0.30	<0.30	<0.30	0.35	<4.7	<4.7	<4.2	<5.2
Propyl benzene	103-65-1	1,000	4,400	4,400	--	**35,000**	--	**150,000**	nc	<0.17	0.18	0.19	<0.17	<5.6	<5.6	<5.1	<6.3
Styrene	100-42-5	1,000	4,400	4,400	--	**35,000**	--	**150,000**	nc	<0.16	0.38	0.41	0.27	<4.9	<4.9	<4.4	<5.4
Tetrachloroethylene	127-18-4	42	180	180	3,600	**1,400**	16,000	**5,800**	nc	<0.17	0.24	0.20	<0.17	<7.8	<7.8	<7.0	<8.6
Tetrahydrofuran	109-99-9	2,100	8,800	8,800	--	**70,000**	--	**290,000**	nc	NA	NA	NA	NA	17	25	16	20
Toluene	108-88-3	5,200	22,000	22,000	--	**170,000**	--	**730,000**	nc	0.54	2.3	2.9	2.0	120	140	100	97
Trichloroethane, 1,1,1-	71-55-6	5,200	22,000	22,000	--	**170,000**	--	**730,000**	nc	<0.16	<0.16	<0.16	<0.16	<6.2	8.8	7.1	<7.0
Trichlorofluoromethane (Freon 11)	75-69-4	--	--	--	--	--	--	--	--	NA	NA	NA	NA	110	220	110	34
Trimethylbenzene, 1,2,4-	95-63-6	63	260	260	--	**2,100**	--	**8,800**	nc	<0.20	1.6	1.7	1.1	15	18	12	15
2,2,4-Trimethylpentane	540-84-1	--	--	--	--	--	--	--	--	NA	NA	NA	NA	13.0	20	49	44
Xylene, m&p-	108-38-3/106-42-3	100	440	440	--	**3,500**	--	**15,000**	nc	0.29	2.1	2.2	1.4	58	74	50	55
Xylene, o-	95-47-6	100	440	440	--	**3,500**	--	**15,000**	nc	<0.15	0.84	0.84	0.54	20	23	18	21

Notes:

(1) Passive sample collection period = 7 days.

First-floor slab-on-grade level indoor air samples are compared to Residential Vapor Action Levels (VALs) using USEPA Vapor Intrusion Screening Levels (VISL; https://epa-visl.ornl.gov/cgi-bin/visl_search, calculated 06/24/2025). Wisconsin variables (Target Risk = 0.00001, i.e., 1x10-5, Target Hazard Quotient = 1). Small Commercial and Large Commercial/Industrial Indoor Air VALs and Small Commercial Vapor Risk Screening Levels are included for reference. USEPA VISL Calculator variables are listed in the adjacent table.

Samples analyzed using United States Environmental Protection Agency (USEPA) Modified Method Toxic Organics-17.

µg/m^3 = Microgram per cubic meter

AF = Attenuation Factor

VAL= Vapor Action Level

VRSL = Vapor Risk Screening Level

(1) For parameters with both carcinogenic and non-carcinogenic indoor air VALs, results are compared to the most conservative sub-slab vapor VRSL displayed in **bold** font.

(2) The USEPA RSL Basis indicates whether the carcinogenic (c) or non-carcinogenic (nc) indoor air VAL is most stringent.

A = Sub-Slab Sample Exceeds Residential VRSL**.**

B = Sample Exceeds Small Commercial VAL**.**

NA = Not analyzed or compound not available for analysis due to sampling media and/or analytical method.

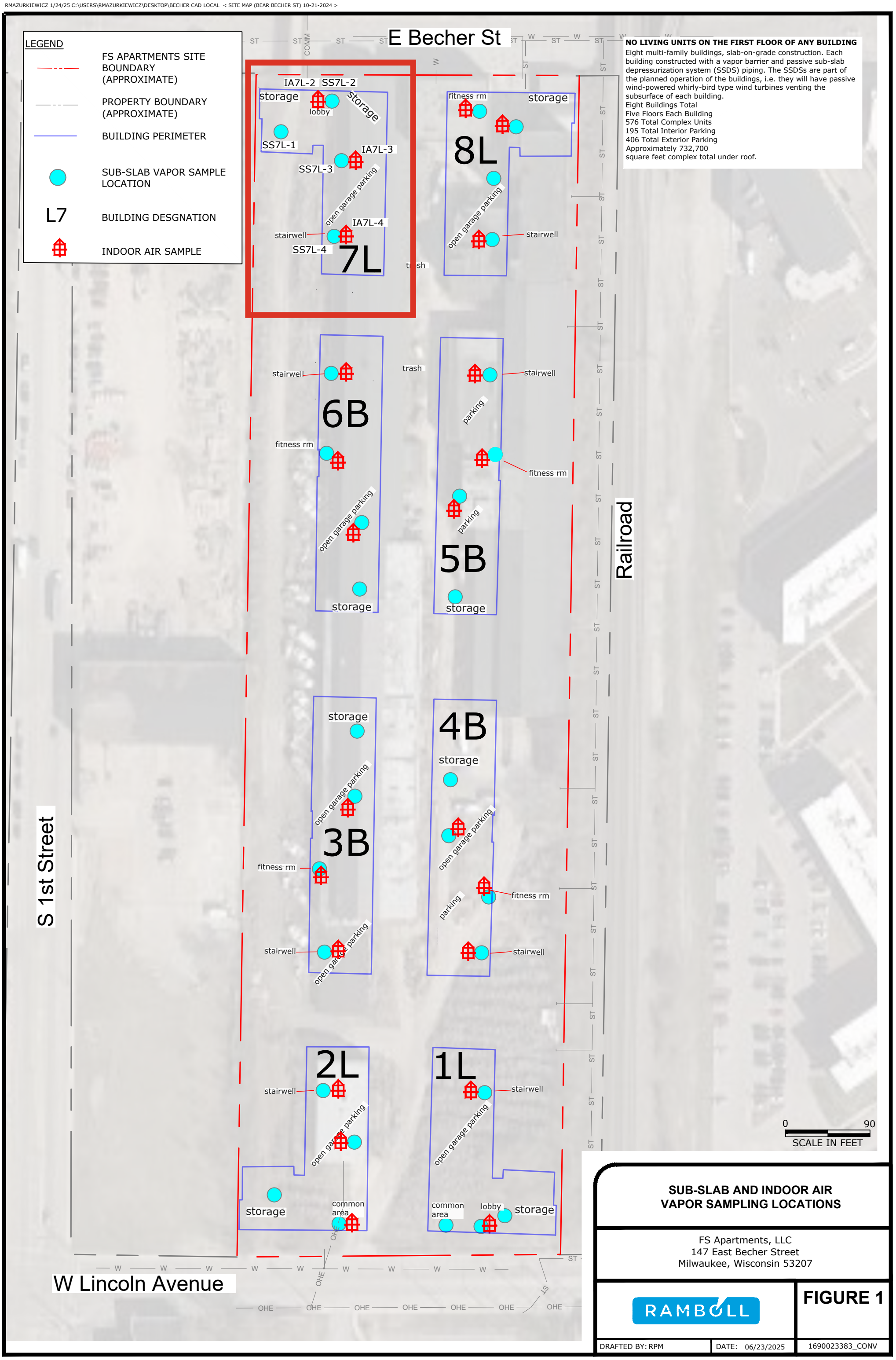
-- No RSL established.

Indoor air and outdoor (background) air samples collected using passive Radiello* 130 samplers.

USEPA VISL Calculator Variables	
Exposure Scenario	Resident
Temperature for Groundwater Vapor Concentration C	25
ED_{res} (exposure duration) years	26
TR (target risk) unitless	0.00001
THQ (target hazard quotient) unitless	1
LT (lifetime) years	70
EF_{res} (exposure frequency) days/year	350
ED_{0-2} (mutagenic exposure duration first phase) years	2
ED_{2-6} (mutagenic exposure duration second phase) years	4
ED_{6-16} (mutagenic exposure duration third phase) years	10
ED_{16-26} (mutagenic exposure duration fourth phase) years	10
EF_{0-2} (mutagenic exposure frequency first phase) days/year	350
EF_{2-6} (mutagenic exposure frequency second phase) days/year	350
EF_{6-16} (mutagenic exposure frequency third phase) days/year	350
EF_{16-26} (mutagenic exposure frequency fourth phase) days/year	350
ET_{res} (exposure time) hours/day	24
ET_{0-2} (mutagenic exposure time first phase) hours/day	24
ET_{2-6} (mutagenic exposure time second phase) hours/day	24
ET_{6-16} (mutagenic exposure time third phase) hours/day	24
ET_{16-26} (mutagenic exposure time fourth phase) hours/day	24
AF_{gw} (Attenuation Factor Groundwater) unitless	0.001
AF_{ss} (Attenuation Factor Sub-Slab) unitless	0.03

Output generated 24JUN2025:14:07:47

RMAZURKIEWICZ 1/24/25 C:\USERS\RMAZURKIEWICZ\DESKTOP\BECHER CAD LOCAL < SITE MAP (BEAR BECHER ST) 10-21-2024 >



NO LIVING UNITS ON THE FIRST FLOOR OF ANY BUILDING

Eight multi-family buildings, slab-on-grade construction. Each building constructed with a vapor barrier and passive sub-slab depressurization system (SSDS) piping. The SSDSs are part of the planned operation of the buildings, i.e. they will have passive wind-powered whirly-bird type wind turbines venting the subsurface of each building.
Eight Buildings Total
Five Floors Each Building
576 Total Complex Units
195 Total Interior Parking
406 Total Exterior Parking
Approximately 732,700
square feet complex total under roof.

SUB-SLAB AND INDOOR AIR VAPOR SAMPLING LOCATIONS

FS Apartments, LLC
147 East Becher Street
Milwaukee, Wisconsin 53207

RAMBOLL

FIGURE 1

DRAFTED BY: RPM	DATE: 06/23/2025	1690023383_CONV

Attachment A

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Analytical Report

7/11/2025
Mr. Duncan Glasford
Ramboll
234 W. Florida St.
5th Floor
Milwaukee WI 53204

Project Name: Becher Street
Project #: 1690023383
Workorder #: 2507167

Dear Mr. Duncan Glasford

The following report includes the data for the above referenced project for sample(s) received on 7/8/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Passive S.E. RAD130/SKC are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Alexander Mojica at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Alexander Mojica

Project Manager

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WORK ORDER #: 2507167

Work Order Summary

CLIENT:	Mr. Duncan Glasford Ramboll 234 W. Florida St. 5th Floor Milwaukee, WI 53204	**BILL TO:**	Accounts Payable-Syracuse Ramboll 333 West Washington Street, Suite 400 Syracuse, NY 13202
PHONE:	414-837-3544	**P.O. #**	
FAX:		**PROJECT #**	1690023383 Becher Street
DATE RECEIVED:	07/08/2025	**CONTACT:**	Alexander Mojica
DATE COMPLETED:	07/11/2025		

FRACTION #	NAME	TEST
01A	OA-7L	Passive S.E. RAD130/SKC
02A	IA-7L-2	Passive S.E. RAD130/SKC
03A	IA-7L-3	Passive S.E. RAD130/SKC
04A	IA-7L-4	Passive S.E. RAD130/SKC
05A	TRIP BLANK	Passive S.E. RAD130/SKC
06A	Lab Blank	Passive S.E. RAD130/SKC
07A	CCV	Passive S.E. RAD130/SKC
08A	LCS	Passive S.E. RAD130/SKC
08AA	LCSD	Passive S.E. RAD130/SKC

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 07/11/25

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
RAD130 Passive SE by Mod EPA TO-17
Ramboll
Workorder# 2507167

Five Radiello 130 (Solvent) samples were received on July 08, 2025. The laboratory analyzed the charcoal sorbent bed of the passive sampler following modified method EPA TO-17. The VOCs were chemically extracted using carbon disulfide and an aliquot of the extract was injected into a GC/MS for identification and quantification of volatile organic compounds (VOCs).

The mass of each target compound adsorbed by the sampler was converted to units of concentration using the sample deployment time and the sampling rate for each VOC. If sampling rates were calculated by the lab or the manufacturer, the concentration result has been flagged as an estimated value. Results are not corrected for desorption efficiency.

The reference method used for this procedure is EPA TO-17, which describes the collection of VOCs in ambient air using sorbents and analysis by GC/MS. Because TO-17 describes active sample collection using a pump and thermal desorption as the preparation step, several modifications are required. Modifications to TO-17 are listed in the table below:

Requirement	***TO-17***	***ATL Modifications***
Sample Collection	Pump pulls measured air volume through sorbent tube	VOCs in air adsorbed onto sorbent bed passively through diffusion
Sample Preparation	Thermal extraction	Solvent extraction
Sorbent tube conditioning	Condition newly packed tubes prior to use	Charcoal-based sorbent is a single use media and conditioning is conducted by vendor.
Instrumentation	Thermal desorption introduction system	Liquid injection introduction system
Internal Standard	Gas-phase internal standard introduced on the tube or focusing trap during analysis	Liquid-phase internal standard introduced on the tube at the time of extraction
Media and sample storage	<4 deg C, 30 days	Media shelf life is determined by vendor; sample hold-time is 6 months for the RAD130 and WMS. Sample preservation requirements are storage in a cool, solvent-free refrigerator and optional use of ice during shipping.
Internal Standard Recovery	+/-40% of daily CCV area	-50% to +100% of daily CCV area

Receiving Notes

Sample collection date was incomplete on the Chain of Custody for samples OA-7L, IA-7L-2, IA-7L-3, IA-7L-4 and TRIP BLANK. The year of collection was assumed to be 2025.

Analytical Notes

The uptake rates were corrected based on average field temperatures if provided. In the absence of

field temperatures, the uptake rates determined at 25 deg C were used.

To calculate ug/m3 concentrations in the Lab Blank and Trip Blank, a sampling duration of 10098 minutes was applied. The assumed temperature used for the uptake rate is listed on the data page. If the field temperatures were provided, the rate was adjusted in the same manner as the field samples.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

C - Estimated concentration due to calculated sampling rate

CN - See case narrative explanation.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: OA-7L

Lab ID#: 2507167-01A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.15	0.15	0.22
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.29	0.37
Carbon Tetrachloride	0.10	0.15	0.20	0.30
Heptane	0.10	0.17	0.10	0.18
Toluene	0.10	0.13	0.40	0.54
m,p-Xylene	0.10	0.14	0.20	0.29

Client Sample ID: IA-7L-2

Lab ID#: 2507167-02A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.15	0.20	0.30
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	2.5	3.1
Cyclohexane	0.10	0.18	0.74	1.4
Carbon Tetrachloride	0.10	0.15	0.16	0.23
Heptane	0.10	0.17	9.0	15
Toluene	0.10	0.13	1.7	2.3
Tetrachloroethene	0.10	0.17	0.14	0.24
Ethyl Benzene	0.10	0.14	0.43	0.63
m,p-Xylene	0.10	0.14	1.5	2.1
o-Xylene	0.10	0.15	0.55	0.84
Styrene	0.10	0.16	0.23	0.38
Propylbenzene	0.10	0.17	0.10	0.18
1,2,4-Trimethylbenzene	0.10	0.20	0.79	1.6

Client Sample ID: IA-7L-3

Lab ID#: 2507167-03A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.15	0.25	0.37
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	2.5	3.1
Cyclohexane	0.10	0.18	1.2	2.1
Carbon Tetrachloride	0.10	0.15	0.17	0.25

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Summary of Detected Compounds
VOCS BY PASSIVE SAMPLER - GC/MS

Client Sample ID: IA-7L-3

Lab ID#: 2507167-03A

Heptane	0.10	0.17	12	21
Toluene	0.10	0.13	2.2	2.9
Tetrachloroethene	0.10	0.17	0.12	0.20
Ethyl Benzene	0.10	0.14	0.45	0.66
m,p-Xylene	0.10	0.14	1.5	2.2
o-Xylene	0.10	0.15	0.55	0.84
Styrene	0.10	0.16	0.25	0.41
Propylbenzene	0.10	0.17	0.11	0.19
1,2,4-Trimethylbenzene	0.10	0.20	0.85	1.7

Client Sample ID: IA-7L-4

Lab ID#: 2507167-04A

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Hexane	0.10	0.15	0.37	0.56
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	1.3	1.7
Cyclohexane	0.10	0.18	0.33	0.61
Carbon Tetrachloride	0.10	0.15	0.18	0.26
Heptane	0.10	0.17	3.9	6.6
4-Methyl-2-pentanone	0.20	0.30	0.24	0.35
Toluene	0.10	0.13	1.5	2.0
Ethyl Benzene	0.10	0.14	0.29	0.42
m,p-Xylene	0.10	0.14	0.98	1.4
o-Xylene	0.10	0.15	0.36	0.54
Styrene	0.10	0.16	0.16	0.27
1,2,4-Trimethylbenzene	0.10	0.20	0.57	1.1

Client Sample ID: TRIP BLANK

Lab ID#: 2507167-05A

No Detections Were Found.

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Client Sample ID: OA-7L

Lab ID#: 2507167-01A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18070907sim**	**Date of Collection: 7/7/25 10:33:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 11:23 AM**
		Date of Extraction: 7/9/25

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	0.15	0.22
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	0.29	0.37
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	0.20	0.30
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	0.10	0.18
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	0.40	0.54
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	0.20	0.29
o-Xylene	0.10	0.15	Not Detected	Not Detected
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10094 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130

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Client Sample ID: IA-7L-2

Lab ID#: 2507167-02A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18070908sim**	**Date of Collection: 7/7/25 10:39:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 11:50 AM**
		Date of Extraction: 7/9/25

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	0.20	0.30
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	2.5	3.1
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	0.74	1.4
Carbon Tetrachloride	0.10	0.15	0.16	0.23
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	9.0	15
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	1.7	2.3
Tetrachloroethene	0.10	0.17	0.14	0.24
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	0.43	0.63
m,p-Xylene	0.10	0.14	1.5	2.1
o-Xylene	0.10	0.15	0.55	0.84
Styrene	0.10	0.16	0.23	0.38
Propylbenzene	0.10	0.17	0.10	0.18
1,2,4-Trimethylbenzene	0.10	0.20	0.79	1.6
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10098 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130

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Client Sample ID: IA-7L-3

Lab ID#: 2507167-03A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18070909sim**	**Date of Collection: 7/7/25 10:37:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 12:17 PM**
		Date of Extraction: 7/9/25

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	0.25	0.37
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	2.5	3.1
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	1.2	2.1
Carbon Tetrachloride	0.10	0.15	0.17	0.25
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	12	21
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	2.2	2.9
Tetrachloroethene	0.10	0.17	0.12	0.20
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	0.45	0.66
m,p-Xylene	0.10	0.14	1.5	2.2
o-Xylene	0.10	0.15	0.55	0.84
Styrene	0.10	0.16	0.25	0.41
Propylbenzene	0.10	0.17	0.11	0.19
1,2,4-Trimethylbenzene	0.10	0.20	0.85	1.7
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10095 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130

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Client Sample ID: IA-7L-4

Lab ID#: 2507167-04A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18070910sim**	**Date of Collection: 7/7/25 10:35:00 AM**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 12:44 PM**
		Date of Extraction: 7/9/25

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	0.37	0.56
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	1.3	1.7
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	0.33	0.61
Carbon Tetrachloride	0.10	0.15	0.18	0.26
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	3.9	6.6
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	0.24	0.35
Toluene	0.10	0.13	1.5	2.0
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	0.29	0.42
m,p-Xylene	0.10	0.14	0.98	1.4
o-Xylene	0.10	0.15	0.36	0.54
Styrene	0.10	0.16	0.16	0.27
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	0.57	1.1
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10095 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130

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Client Sample ID: TRIP BLANK

Lab ID#: 2507167-05A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18070911sim**	**Date of Collection: 7/7/25**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 01:11 PM**	
		Date of Extraction: 7/9/25	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	Not Detected	Not Detected
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	Not Detected	Not Detected
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	Not Detected	Not Detected
o-Xylene	0.10	0.15	Not Detected	Not Detected
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10098 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2507167-06A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18070906sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 10:57 AM**	
		Date of Extraction: 7/9/25	

Compound	Rpt. Limit (ug)	Rpt. Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
Ethanol	1.0	0.97	Not Detected	Not Detected
Methyl tert-butyl ether	0.10	0.15	Not Detected	Not Detected
Hexane	0.10	0.15	Not Detected	Not Detected
Ethyl Acetate	0.40	0.51	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.20	0.25	Not Detected	Not Detected
Chloroform	0.10	0.13	Not Detected	Not Detected
1,1,1-Trichloroethane	0.10	0.16	Not Detected	Not Detected
Cyclohexane	0.10	0.18	Not Detected	Not Detected
Carbon Tetrachloride	0.10	0.15	Not Detected	Not Detected
Benzene	0.40	0.50	Not Detected	Not Detected
1,2-Dichloroethane	0.10	0.13	Not Detected	Not Detected
Heptane	0.10	0.17	Not Detected	Not Detected
Trichloroethene	0.10	0.14	Not Detected	Not Detected
4-Methyl-2-pentanone	0.20	0.30	Not Detected	Not Detected
Toluene	0.10	0.13	Not Detected	Not Detected
Tetrachloroethene	0.10	0.17	Not Detected	Not Detected
Chlorobenzene	0.10	0.14	Not Detected	Not Detected
Ethyl Benzene	0.10	0.14	Not Detected	Not Detected
m,p-Xylene	0.10	0.14	Not Detected	Not Detected
o-Xylene	0.10	0.15	Not Detected	Not Detected
Styrene	0.10	0.16	Not Detected	Not Detected
Propylbenzene	0.10	0.17	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.10	0.20	Not Detected	Not Detected
1,4-Dichlorobenzene	0.10	0.19	Not Detected	Not Detected
Naphthalene	0.10	0.40	Not Detected	Not Detected

Temperature = 77.0F , duration time = 10098 minutes.

Container Type: Radiello 130 (Solvent)

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130

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Client Sample ID: CCV

Lab ID#: 2507167-07A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18070903sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 09:37 AM**
		Date of Extraction: NA

Compound	%Recovery
Ethanol	117
Methyl tert-butyl ether	116
Hexane	97
Ethyl Acetate	109
2-Butanone (Methyl Ethyl Ketone)	111
Chloroform	114
1,1,1-Trichloroethane	115
Cyclohexane	108
Carbon Tetrachloride	116
Benzene	106
1,2-Dichloroethane	112
Heptane	106
Trichloroethene	110
4-Methyl-2-pentanone	109
Toluene	108
Tetrachloroethene	113
Chlorobenzene	110
Ethyl Benzene	108
m,p-Xylene	108
o-Xylene	108
Styrene	108
Propylbenzene	110
1,2,4-Trimethylbenzene	109
1,4-Dichlorobenzene	109
Naphthalene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	106	70-130

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Client Sample ID: LCS

Lab ID#: 2507167-08A

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18070904sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 10:04 AM**
		Date of Extraction: 7/9/25

Compound	%Recovery	Method Limits
Ethanol	56	50-130
Methyl tert-butyl ether	100	70-130
Hexane	88	70-130
Ethyl Acetate	93	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	95	70-130
Carbon Tetrachloride	100	70-130
Benzene	90	70-130
1,2-Dichloroethane	92	70-130
Heptane	94	70-130
Trichloroethene	97	70-130
4-Methyl-2-pentanone	94	70-130
Toluene	96	70-130
Tetrachloroethene	100	70-130
Chlorobenzene	94	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	96	70-130
o-Xylene	95	70-130
Styrene	70	20-100
Propylbenzene	100	70-130
1,2,4-Trimethylbenzene	95	70-130
1,4-Dichlorobenzene	89	50-110
Naphthalene	30	5-80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130

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Client Sample ID: LCSD

Lab ID#: 2507167-08AA

VOCS BY PASSIVE SAMPLER - GC/MS

File Name:	**18070905sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 10:30 AM**
		Date of Extraction: 7/9/25

Compound	%Recovery	Method Limits
Ethanol	58	50-130
Methyl tert-butyl ether	102	70-130
Hexane	89	70-130
Ethyl Acetate	95	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	99	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	101	70-130
Benzene	90	70-130
1,2-Dichloroethane	94	70-130
Heptane	94	70-130
Trichloroethene	98	70-130
4-Methyl-2-pentanone	96	70-130
Toluene	96	70-130
Tetrachloroethene	100	70-130
Chlorobenzene	94	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	96	70-130
o-Xylene	95	70-130
Styrene	71	20-100
Propylbenzene	100	70-130
1,2,4-Trimethylbenzene	95	70-130
1,4-Dichlorobenzene	89	50-110
Naphthalene	30	5-80

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130

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Method : Passive SE GC/MS - Full 130 (rev 2023)

CAS Number	Compound	Rpt. Limit (ug)
64-17-5	Ethanol	1.0
1634-04-4	Methyl tert-butyl ether	0.10
110-54-3	Hexane	0.10
141-78-6	Ethyl Acetate	0.40
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.20
67-66-3	Chloroform	0.10
71-55-6	1,1,1-Trichloroethane	0.10
110-82-7	Cyclohexane	0.10
56-23-5	Carbon Tetrachloride	0.10
71-43-2	Benzene	0.40
107-06-2	1,2-Dichloroethane	0.10
142-82-5	Heptane	0.10
79-01-6	**Trichloroethene**	**0.10**
108-10-1	4-Methyl-2-pentanone	0.20
108-88-3	Toluene	0.10
127-18-4	Tetrachloroethene	0.10
108-90-7	Chlorobenzene	0.10
100-41-4	Ethyl Benzene	0.10
108-38-3	m,p-Xylene	0.10
95-47-6	o-Xylene	0.10
100-42-5	Styrene	0.10
103-65-1	Propylbenzene	0.10
95-63-6	1,2,4-Trimethylbenzene	0.10
106-46-7	1,4-Dichlorobenzene	0.10
91-20-3	Naphthalene	0.10

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130

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Analysis Request / Passive Sorbent Chain of Custody

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Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder #: 2507167

page 1 of 1

Client: RAES
Site Name: BECHER ST.
Project Manager: RIC MAZ
Sampler: D. GLASFORD

Project Name: BECHER STREET
Project #: 1690023383
PO#:

Turnaround Time (Specify Below)
Standard ____ Rush 3 (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days: 3 DAY

Sample Matrix (Check One): Indoor/Outdoor Air | Soil Gas | Workplace Monitoring | (Other) ____

Reporting Units (Circle One): ppbv | µg/m³ | ppmv | mg/m³ | µg | ng

Lab ID	Field Sample Identification (Location)	Tube # / Sampler ID	Deployment Date	Deployment Time	Retrieval Date	Retrieval Time	Indoor/Outdoor Air	Soil Gas	Workplace Monitoring	(Other)	Temperature	Analysis Requested	Sample Comments:
01A	OA-7L	TW670	6-30	1019	7-7	1033	X					TO17	
02A	IA-7L-2	TW672	↓	1021	↓	1039	X					↓	
03A	IA-7L-3	TW673	↓	1022	↓	1037	X					↓	
04A	IA-7L-4	TW674	↓	1020	↓	1035	X					↓	
05A	TRIP BLANK	TW671	—	—	—	—	X					TO17	

INITIAL °C: ____ CF: ____ FINAL °C: ____
PROBE: ____ TIME STORED: A 7/8/25
CUSTODY SEAL? YES NO NONE
CARRIER: Fed Ex

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature]	7-7-25	1400	FEDEX	7-7-25	1400
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
			[signature] OAL	7/8/25	0923
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed Ex | Custody Seals Intact? Yes No None | Temperature: NA | Condition: Good

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922

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Analytical Report

7/11/2025
Mr. Duncan Glasford
Ramboll
234 W. Florida St.
5th Floor
Milwaukee WI 53204

Project Name: Becher Street
Project #: 1690023383
Workorder #: 2507168

Dear Mr. Duncan Glasford

The following report includes the data for the above referenced project for sample(s) received on 7/8/2025 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Alexander Mojica at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Alexander Mojica

Project Manager

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WORK ORDER #: 2507168

Work Order Summary

CLIENT:	Mr. Duncan Glasford Ramboll 234 W. Florida St. 5th Floor Milwaukee, WI 53204	**BILL TO:**	Accounts Payable-Syracuse Ramboll 333 West Washington Street, Suite 400 Syracuse, NY 13202
PHONE:	414-837-3544	**P.O. #**	
FAX:		**PROJECT #**	1690023383 Becher Street
DATE RECEIVED:	07/08/2025	**CONTACT:**	Alexander Mojica
DATE COMPLETED:	07/11/2025		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	SS 7L-1	TO-15	8 "Hg	10 psi
02A	SS 7L-2	TO-15	8.4 "Hg	9.5 psi
03A	SS 7L-3	TO-15	5.7 "Hg	9.9 psi
04A	SS 7L-4	TO-15	10.4 "Hg	9.8 psi
05A	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 07/11/25

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP–02089, MN NELAP-2836569, NH NELAP–209224-A, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-13180, WA NELAP-C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-21
Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000

LABORATORY NARRATIVE
EPA Method TO-15
Ramboll
Workorder# 2507168

Four 1 Liter Summa Canister (100% Certified) samples were received on July 08, 2025. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

Sample collection date was incomplete on the Chain of Custody for samples SS 7L-1, SS 7L-2, SS 7L-3 and SS 7L-4. The year of collection was assumed to be 2025.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS 7L-1

Lab ID#: 2507168-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	2.4	5.7	12
Freon 11	1.1	20	6.4	110
Ethanol	11	65	22	120
Acetone	11	31	27	73
Hexane	1.1	7.9	4.0	28
2-Butanone (Methyl Ethyl Ketone)	4.6	9.4	14	28
Tetrahydrofuran	1.1	5.8	3.4	17
Chloroform	1.1	24	5.6	120
Cyclohexane	1.1	3.8	3.9	13
2,2,4-Trimethylpentane	1.1	2.7	5.3	13
Benzene	1.1	4.9	3.6	16
Heptane	1.1	2.9	4.7	12
Toluene	2.3	31	8.6	120
Ethyl Benzene	1.1	3.8	5.0	16
m,p-Xylene	2.3	13	9.9	58
o-Xylene	1.1	4.5	5.0	20
4-Ethyltoluene	1.1	3.0	5.6	15
1,2,4-Trimethylbenzene	1.1	3.0	5.6	15

Client Sample ID: SS 7L-2

Lab ID#: 2507168-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	3.9	5.7	19
Freon 11	1.1	40	6.4	220
Ethanol	11	130	22	240
Acetone	11	53	27	130
2-Propanol	4.6	9.1	11	22
Hexane	1.1	9.3	4.0	33
2-Butanone (Methyl Ethyl Ketone)	4.6	10	14	30
Tetrahydrofuran	1.1	8.6	3.4	25
Chloroform	1.1	54	5.6	260
1,1,1-Trichloroethane	1.1	1.6	6.2	8.8

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS 7L-2

Lab ID#: 2507168-02A

Cyclohexane	1.1	6.9	3.9	24
2,2,4-Trimethylpentane	1.1	4.2	5.3	20
Benzene	1.1	5.4	3.6	17
Heptane	1.1	3.8	4.7	16
Toluene	2.3	39	8.6	140
Ethyl Benzene	1.1	4.8	5.0	21
m,p-Xylene	2.3	17	9.9	74
o-Xylene	1.1	5.3	5.0	23
4-Ethyltoluene	1.1	3.8	5.6	18
1,2,4-Trimethylbenzene	1.1	3.7	5.6	18

Client Sample ID: SS 7L-3

Lab ID#: 2507168-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	1.1	5.1	5.5
Freon 11	1.0	19	5.8	110
Ethanol	10	69	20	130
Acetone	10	40	24	95
2-Propanol	4.1	4.2	10	10
Hexane	1.0	14	3.6	50
2-Butanone (Methyl Ethyl Ketone)	4.1	9.8	12	29
Tetrahydrofuran	1.0	5.5	3.0	16
Chloroform	1.0	38	5.0	190
1,1,1-Trichloroethane	1.0	1.3	5.6	7.1
Cyclohexane	1.0	6.3	3.6	22
2,2,4-Trimethylpentane	1.0	10	4.8	49
Benzene	1.0	3.5	3.3	11
Heptane	1.0	3.9	4.2	16
Toluene	2.1	27	7.8	100
Ethyl Benzene	1.0	3.2	4.5	14
m,p-Xylene	2.1	12	9.0	50
o-Xylene	1.0	4.1	4.5	18
4-Ethyltoluene	1.0	2.8	5.1	14
1,2,4-Trimethylbenzene	1.0	2.5	5.1	12

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: SS 7L-4

Lab ID#: 2507168-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	1.3	6.0	7.2	34
Ethanol	13	110	24	200
Acetone	13	37	30	89
Hexane	1.3	6.6	4.5	23
2-Butanone (Methyl Ethyl Ketone)	5.1	9.8	15	29
Tetrahydrofuran	1.3	6.7	3.8	20
Chloroform	1.3	7.0	6.2	34
Cyclohexane	1.3	5.1	4.4	18
2,2,4-Trimethylpentane	1.3	9.4	6.0	44
Benzene	1.3	3.5	4.1	11
Heptane	1.3	4.0	5.2	16
Toluene	2.6	26	9.6	97
Ethyl Benzene	1.3	3.2	5.5	14
m,p-Xylene	2.6	13	11	55
o-Xylene	1.3	4.8	5.5	21
4-Ethyltoluene	1.3	3.0	6.3	15
1,2,4-Trimethylbenzene	1.3	3.0	6.3	15

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Client Sample ID: SS 7L-1

Lab ID#: 2507168-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070910**	**Date of Collection:**	**7/7/25 11:56:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**7/9/25 10:20 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	2.4	5.7	12
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	20	6.4	110
Ethanol	11	65	22	120
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	31	27	73
2-Propanol	4.6	Not Detected	11	Not Detected
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	7.9	4.0	28
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	9.4	14	28
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	5.8	3.4	17
Chloroform	1.1	24	5.6	120
1,1,1-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Cyclohexane	1.1	3.8	3.9	13
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	2.7	5.3	13
Benzene	1.1	4.9	3.6	16
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	2.9	4.7	12
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	2.3	31	8.6	120
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected

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Client Sample ID: SS 7L-1

Lab ID#: 2507168-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070910**	**Date of Collection:**	**7/7/25 11:56:00 AM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**7/9/25 10:20 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	3.8	5.0	16
m,p-Xylene	2.3	13	9.9	58
o-Xylene	1.1	4.5	5.0	20
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	3.0	5.6	15
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	3.0	5.6	15
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: SS 7L-2

Lab ID#: 2507168-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070911**	**Date of Collection:**	**7/7/25 12:21:00 PM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**7/9/25 10:49 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	3.9	5.7	19
Freon 114	1.1	Not Detected	8.0	Not Detected
Chloromethane	11	Not Detected	24	Not Detected
Vinyl Chloride	1.1	Not Detected	2.9	Not Detected
1,3-Butadiene	1.1	Not Detected	2.5	Not Detected
Bromomethane	11	Not Detected	44	Not Detected
Chloroethane	4.6	Not Detected	12	Not Detected
Freon 11	1.1	40	6.4	220
Ethanol	11	130	22	240
Freon 113	1.1	Not Detected	8.8	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Acetone	11	53	27	130
2-Propanol	4.6	9.1	11	22
Carbon Disulfide	4.6	Not Detected	14	Not Detected
3-Chloropropene	4.6	Not Detected	14	Not Detected
Methylene Chloride	11	Not Detected	40	Not Detected
Methyl tert-butyl ether	4.6	Not Detected	16	Not Detected
trans-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Hexane	1.1	9.3	4.0	33
1,1-Dichloroethane	1.1	Not Detected	4.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.6	10	14	30
cis-1,2-Dichloroethene	1.1	Not Detected	4.5	Not Detected
Tetrahydrofuran	1.1	8.6	3.4	25
Chloroform	1.1	54	5.6	260
1,1,1-Trichloroethane	1.1	1.6	6.2	8.8
Cyclohexane	1.1	6.9	3.9	24
Carbon Tetrachloride	1.1	Not Detected	7.2	Not Detected
2,2,4-Trimethylpentane	1.1	4.2	5.3	20
Benzene	1.1	5.4	3.6	17
1,2-Dichloroethane	1.1	Not Detected	4.6	Not Detected
Heptane	1.1	3.8	4.7	16
Trichloroethene	1.1	Not Detected	6.2	Not Detected
1,2-Dichloropropane	1.1	Not Detected	5.3	Not Detected
1,4-Dioxane	4.6	Not Detected	16	Not Detected
Bromodichloromethane	1.1	Not Detected	7.7	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
4-Methyl-2-pentanone	1.1	Not Detected	4.7	Not Detected
Toluene	2.3	39	8.6	140
trans-1,3-Dichloropropene	1.1	Not Detected	5.2	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	6.2	Not Detected
Tetrachloroethene	1.1	Not Detected	7.8	Not Detected
2-Hexanone	4.6	Not Detected	19	Not Detected

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Client Sample ID: SS 7L-2

Lab ID#: 2507168-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070911**	**Date of Collection:**	**7/7/25 12:21:00 PM**
Dil. Factor:	**2.29**	**Date of Analysis:**	**7/9/25 10:49 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.1	Not Detected	9.8	Not Detected
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.8	Not Detected
Chlorobenzene	1.1	Not Detected	5.3	Not Detected
Ethyl Benzene	1.1	4.8	5.0	21
m,p-Xylene	2.3	17	9.9	74
o-Xylene	1.1	5.3	5.0	23
Styrene	1.1	Not Detected	4.9	Not Detected
Bromoform	1.1	Not Detected	12	Not Detected
Cumene	1.1	Not Detected	5.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.9	Not Detected
Propylbenzene	1.1	Not Detected	5.6	Not Detected
4-Ethyltoluene	1.1	3.8	5.6	18
1,3,5-Trimethylbenzene	1.1	Not Detected	5.6	Not Detected
1,2,4-Trimethylbenzene	1.1	3.7	5.6	18
1,3-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.9	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.9	Not Detected
1,2,4-Trichlorobenzene	4.6	Not Detected	34	Not Detected
Hexachlorobutadiene	4.6	Not Detected	49	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: SS 7L-3

Lab ID#: 2507168-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070912**	**Date of Collection:**	**7/7/25 12:42:00 PM**
Dil. Factor:	**2.07**	**Date of Analysis:**	**7/9/25 11:18 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.0	1.1	5.1	5.5
Freon 114	1.0	Not Detected	7.2	Not Detected
Chloromethane	10	Not Detected	21	Not Detected
Vinyl Chloride	1.0	Not Detected	2.6	Not Detected
1,3-Butadiene	1.0	Not Detected	2.3	Not Detected
Bromomethane	10	Not Detected	40	Not Detected
Chloroethane	4.1	Not Detected	11	Not Detected
Freon 11	1.0	19	5.8	110
Ethanol	10	69	20	130
Freon 113	1.0	Not Detected	7.9	Not Detected
1,1-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Acetone	10	40	24	95
2-Propanol	4.1	4.2	10	10
Carbon Disulfide	4.1	Not Detected	13	Not Detected
3-Chloropropene	4.1	Not Detected	13	Not Detected
Methylene Chloride	10	Not Detected	36	Not Detected
Methyl tert-butyl ether	4.1	Not Detected	15	Not Detected
trans-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Hexane	1.0	14	3.6	50
1,1-Dichloroethane	1.0	Not Detected	4.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	4.1	9.8	12	29
cis-1,2-Dichloroethene	1.0	Not Detected	4.1	Not Detected
Tetrahydrofuran	1.0	5.5	3.0	16
Chloroform	1.0	38	5.0	190
1,1,1-Trichloroethane	1.0	1.3	5.6	7.1
Cyclohexane	1.0	6.3	3.6	22
Carbon Tetrachloride	1.0	Not Detected	6.5	Not Detected
2,2,4-Trimethylpentane	1.0	10	4.8	49
Benzene	1.0	3.5	3.3	11
1,2-Dichloroethane	1.0	Not Detected	4.2	Not Detected
Heptane	1.0	3.9	4.2	16
Trichloroethene	1.0	Not Detected	5.6	Not Detected
1,2-Dichloropropane	1.0	Not Detected	4.8	Not Detected
1,4-Dioxane	4.1	Not Detected	15	Not Detected
Bromodichloromethane	1.0	Not Detected	6.9	Not Detected
cis-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
4-Methyl-2-pentanone	1.0	Not Detected	4.2	Not Detected
Toluene	2.1	27	7.8	100
trans-1,3-Dichloropropene	1.0	Not Detected	4.7	Not Detected
1,1,2-Trichloroethane	1.0	Not Detected	5.6	Not Detected
Tetrachloroethene	1.0	Not Detected	7.0	Not Detected
2-Hexanone	4.1	Not Detected	17	Not Detected

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Client Sample ID: SS 7L-3

Lab ID#: 2507168-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070912**	**Date of Collection:**	**7/7/25 12:42:00 PM**
Dil. Factor:	**2.07**	**Date of Analysis:**	**7/9/25 11:18 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.0	Not Detected	8.8	Not Detected
1,2-Dibromoethane (EDB)	1.0	Not Detected	8.0	Not Detected
Chlorobenzene	1.0	Not Detected	4.8	Not Detected
Ethyl Benzene	1.0	3.2	4.5	14
m,p-Xylene	2.1	12	9.0	50
o-Xylene	1.0	4.1	4.5	18
Styrene	1.0	Not Detected	4.4	Not Detected
Bromoform	1.0	Not Detected	11	Not Detected
Cumene	1.0	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.0	Not Detected	7.1	Not Detected
Propylbenzene	1.0	Not Detected	5.1	Not Detected
4-Ethyltoluene	1.0	2.8	5.1	14
1,3,5-Trimethylbenzene	1.0	Not Detected	5.1	Not Detected
1,2,4-Trimethylbenzene	1.0	2.5	5.1	12
1,3-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
alpha-Chlorotoluene	1.0	Not Detected	5.4	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected	6.2	Not Detected
1,2,4-Trichlorobenzene	4.1	Not Detected	31	Not Detected
Hexachlorobutadiene	4.1	Not Detected	44	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: SS 7L-4

Lab ID#: 2507168-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070913**	**Date of Collection:**	**7/7/25 1:00:00 PM**
Dil. Factor:	**2.55**	**Date of Analysis:**	**7/9/25 11:46 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.3	Not Detected
Freon 114	1.3	Not Detected	8.9	Not Detected
Chloromethane	13	Not Detected	26	Not Detected
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
1,3-Butadiene	1.3	Not Detected	2.8	Not Detected
Bromomethane	13	Not Detected	50	Not Detected
Chloroethane	5.1	Not Detected	13	Not Detected
Freon 11	1.3	6.0	7.2	34
Ethanol	13	110	24	200
Freon 113	1.3	Not Detected	9.8	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Acetone	13	37	30	89
2-Propanol	5.1	Not Detected	12	Not Detected
Carbon Disulfide	5.1	Not Detected	16	Not Detected
3-Chloropropene	5.1	Not Detected	16	Not Detected
Methylene Chloride	13	Not Detected	44	Not Detected
Methyl tert-butyl ether	5.1	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Hexane	1.3	6.6	4.5	23
1,1-Dichloroethane	1.3	Not Detected	5.2	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5.1	9.8	15	29
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Tetrahydrofuran	1.3	6.7	3.8	20
Chloroform	1.3	7.0	6.2	34
1,1,1-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Cyclohexane	1.3	5.1	4.4	18
Carbon Tetrachloride	1.3	Not Detected	8.0	Not Detected
2,2,4-Trimethylpentane	1.3	9.4	6.0	44
Benzene	1.3	3.5	4.1	11
1,2-Dichloroethane	1.3	Not Detected	5.2	Not Detected
Heptane	1.3	4.0	5.2	16
Trichloroethene	1.3	Not Detected	6.8	Not Detected
1,2-Dichloropropane	1.3	Not Detected	5.9	Not Detected
1,4-Dioxane	5.1	Not Detected	18	Not Detected
Bromodichloromethane	1.3	Not Detected	8.5	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
4-Methyl-2-pentanone	1.3	Not Detected	5.2	Not Detected
Toluene	2.6	26	9.6	97
trans-1,3-Dichloropropene	1.3	Not Detected	5.8	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.0	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
2-Hexanone	5.1	Not Detected	21	Not Detected

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Client Sample ID: SS 7L-4

Lab ID#: 2507168-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070913**	**Date of Collection:**	**7/7/25 1:00:00 PM**
Dil. Factor:	**2.55**	**Date of Analysis:**	**7/9/25 11:46 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	1.3	Not Detected	11	Not Detected
1,2-Dibromoethane (EDB)	1.3	Not Detected	9.8	Not Detected
Chlorobenzene	1.3	Not Detected	5.9	Not Detected
Ethyl Benzene	1.3	3.2	5.5	14
m,p-Xylene	2.6	13	11	55
o-Xylene	1.3	4.8	5.5	21
Styrene	1.3	Not Detected	5.4	Not Detected
Bromoform	1.3	Not Detected	13	Not Detected
Cumene	1.3	Not Detected	6.3	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	8.8	Not Detected
Propylbenzene	1.3	Not Detected	6.3	Not Detected
4-Ethyltoluene	1.3	3.0	6.3	15
1,3,5-Trimethylbenzene	1.3	Not Detected	6.3	Not Detected
1,2,4-Trimethylbenzene	1.3	3.0	6.3	15
1,3-Dichlorobenzene	1.3	Not Detected	7.7	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	7.7	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.6	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	7.7	Not Detected
1,2,4-Trichlorobenzene	5.1	Not Detected	38	Not Detected
Hexachlorobutadiene	5.1	Not Detected	54	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	109	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 2507168-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070907**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 08:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
1,3-Butadiene	0.50	Not Detected	1.1	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Ethanol	5.0	Not Detected	9.4	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Acetone	5.0	Not Detected	12	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
3-Chloropropene	2.0	Not Detected	6.3	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
1,4-Dioxane	2.0	Not Detected	7.2	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
4-Methyl-2-pentanone	0.50	Not Detected	2.0	Not Detected
Toluene	1.0	Not Detected	3.8	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 2507168-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070907**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 08:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	1.0	Not Detected	4.3	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
Bromoform	0.50	Not Detected	5.2	Not Detected
Cumene	0.50	Not Detected	2.4	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Propylbenzene	0.50	Not Detected	2.4	Not Detected
4-Ethyltoluene	0.50	Not Detected	2.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	110	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: CCV

Lab ID#: 2507168-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070903**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 04:14 AM**

Compound	%Recovery
Freon 12	122
Freon 114	104
Chloromethane	120
Vinyl Chloride	117
1,3-Butadiene	116
Bromomethane	107
Chloroethane	118
Freon 11	112
Ethanol	120
Freon 113	102
1,1-Dichloroethene	100
Acetone	109
2-Propanol	113
Carbon Disulfide	108
3-Chloropropene	104
Methylene Chloride	124
Methyl tert-butyl ether	109
trans-1,2-Dichloroethene	102
Hexane	115
1,1-Dichloroethane	115
2-Butanone (Methyl Ethyl Ketone)	109
cis-1,2-Dichloroethene	103
Tetrahydrofuran	116
Chloroform	113
1,1,1-Trichloroethane	112
Cyclohexane	104
Carbon Tetrachloride	107
2,2,4-Trimethylpentane	114
Benzene	108
1,2-Dichloroethane	110
Heptane	106
Trichloroethene	104
1,2-Dichloropropane	112
1,4-Dioxane	103
Bromodichloromethane	112
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	102
Toluene	102
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	104
Tetrachloroethene	97
2-Hexanone	106

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Client Sample ID: CCV

Lab ID#: 2507168-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070903**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 04:14 AM**

Compound	%Recovery
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	102
Chlorobenzene	102
Ethyl Benzene	100
m,p-Xylene	100
o-Xylene	101
Styrene	100
Bromoform	102
Cumene	102
1,1,2,2-Tetrachloroethane	109
Propylbenzene	99
4-Ethyltoluene	99
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	100
1,3-Dichlorobenzene	101
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	105
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	111	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCS

Lab ID#: 2507168-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 04:40 AM**	

Compound	%Recovery	Method Limits
Freon 12	118	70-130
Freon 114	101	70-130
Chloromethane	116	70-130
Vinyl Chloride	113	70-130
1,3-Butadiene	111	70-130
Bromomethane	105	70-130
Chloroethane	112	70-130
Freon 11	109	70-130
Ethanol	114	70-130
Freon 113	97	70-130
1,1-Dichloroethene	95	70-130
Acetone	105	70-130
2-Propanol	122	70-130
Carbon Disulfide	102	70-130
3-Chloropropene	101	70-130
Methylene Chloride	113	70-130
Methyl tert-butyl ether	103	70-130
trans-1,2-Dichloroethene	98	70-130
Hexane	107	70-130
1,1-Dichloroethane	110	70-130
2-Butanone (Methyl Ethyl Ketone)	98	70-130
cis-1,2-Dichloroethene	97	70-130
Tetrahydrofuran	110	70-130
Chloroform	104	70-130
1,1,1-Trichloroethane	108	70-130
Cyclohexane	100	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	108	70-130
Benzene	107	70-130
1,2-Dichloroethane	110	70-130
Heptane	104	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	111	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	105	70-130
4-Methyl-2-pentanone	107	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	104	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	95	70-130
2-Hexanone	105	70-130

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Client Sample ID: LCS

Lab ID#: 2507168-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 04:40 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	100	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	102	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	99	70-130
o-Xylene	97	70-130
Styrene	99	70-130
Bromoform	99	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Propylbenzene	97	70-130
4-Ethyltoluene	96	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	101	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	99	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	111	70-130
Hexachlorobutadiene	110	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	106	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 2507168-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 05:05 AM**	

Compound	%Recovery	Method Limits
Freon 12	114	70-130
Freon 114	103	70-130
Chloromethane	116	70-130
Vinyl Chloride	113	70-130
1,3-Butadiene	114	70-130
Bromomethane	111	70-130
Chloroethane	106	70-130
Freon 11	108	70-130
Ethanol	120	70-130
Freon 113	99	70-130
1,1-Dichloroethene	96	70-130
Acetone	103	70-130
2-Propanol	121	70-130
Carbon Disulfide	102	70-130
3-Chloropropene	102	70-130
Methylene Chloride	115	70-130
Methyl tert-butyl ether	105	70-130
trans-1,2-Dichloroethene	98	70-130
Hexane	108	70-130
1,1-Dichloroethane	110	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
cis-1,2-Dichloroethene	97	70-130
Tetrahydrofuran	110	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	106	70-130
Cyclohexane	100	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	108	70-130
Benzene	108	70-130
1,2-Dichloroethane	108	70-130
Heptane	106	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	109	70-130
1,4-Dioxane	101	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	103	70-130
4-Methyl-2-pentanone	106	70-130
Toluene	99	70-130
trans-1,3-Dichloropropene	105	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	98	70-130
2-Hexanone	106	70-130

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Client Sample ID: LCSD

Lab ID#: 2507168-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**17070905**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/9/25 05:05 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	103	70-130
Chlorobenzene	103	70-130
Ethyl Benzene	101	70-130
m,p-Xylene	97	70-130
o-Xylene	99	70-130
Styrene	101	70-130
Bromoform	98	70-130
Cumene	99	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Propylbenzene	96	70-130
4-Ethyltoluene	96	70-130
1,3,5-Trimethylbenzene	98	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3-Dichlorobenzene	98	70-130
1,4-Dichlorobenzene	98	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	109	70-130
Hexachlorobutadiene	109	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	107	70-130
4-Bromofluorobenzene	98	70-130

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Method : TO-15

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.50
74-87-3	Chloromethane	5.0
75-01-4	Vinyl Chloride	0.50
106-99-0	1,3-Butadiene	0.50
74-83-9	Bromomethane	5.0
75-00-3	Chloroethane	2.0
75-69-4	Freon 11	0.50
64-17-5	Ethanol	5.0
76-13-1	Freon 113	0.50
75-35-4	1,1-Dichloroethene	0.50
67-64-1	Acetone	5.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	2.0
107-05-1	3-Chloropropene	2.0
75-09-2	Methylene Chloride	5.0
1634-04-4	Methyl tert-butyl ether	2.0
156-60-5	trans-1,2-Dichloroethene	0.50
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	2.0
156-59-2	cis-1,2-Dichloroethene	0.50
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.50
71-55-6	1,1,1-Trichloroethane	0.50
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.50
107-06-2	1,2-Dichloroethane	0.50
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.50
78-87-5	1,2-Dichloropropane	0.50
123-91-1	1,4-Dioxane	2.0
75-27-4	Bromodichloromethane	0.50
10061-01-5	cis-1,3-Dichloropropene	0.50
108-10-1	4-Methyl-2-pentanone	0.50
108-88-3	Toluene	1.0
10061-02-6	trans-1,3-Dichloropropene	0.50
79-00-5	1,1,2-Trichloroethane	0.50
127-18-4	Tetrachloroethene	0.50
591-78-6	2-Hexanone	2.0
124-48-1	Dibromochloromethane	0.50
106-93-4	1,2-Dibromoethane (EDB)	0.50

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Method : TO-15

CAS Number	Compound	Rpt. Limit (ppbv)
108-90-7	Chlorobenzene	0.50
100-41-4	Ethyl Benzene	0.50
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
100-42-5	Styrene	0.50
75-25-2	Bromoform	0.50
98-82-8	Cumene	0.50
79-34-5	1,1,2,2-Tetrachloroethane	0.50
103-65-1	Propylbenzene	0.50
622-96-8	4-Ethyltoluene	0.50
108-67-8	1,3,5-Trimethylbenzene	0.50
95-63-6	1,2,4-Trimethylbenzene	0.50
541-73-1	1,3-Dichlorobenzene	0.50
106-46-7	1,4-Dichlorobenzene	0.50
100-44-7	alpha-Chlorotoluene	0.50
95-50-1	1,2-Dichlorobenzene	0.50
120-82-1	1,2,4-Trichlorobenzene	2.0
87-68-3	Hexachlorobutadiene	2.0

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

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Analysis Request / Canister Chain of Custody

Eurofins Environment Testing Northern California, LLC
180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

Workorder#: 2507168

Instructions

If no TAT is marked, EATL will proceed with Standard TAT

Client: RAES
Site Name: BECHER ST.
Project Manager: RIC MAZ
Sampler: D-GLASFORD

Project Name: BECHER STREET
Project #: 1690023383
PO#:

Turnaround Time (Specify Below)
Standard ____ Rush X (Surcharges will apply, per availability)
Samples received after 3PM PST are considered to be received on the following workday.
Requested Date (mm/dd/yy):
OR Number of Days: 3

Lab ID	Field Sample Identification (Location)	Canister Barcode #	Flow Controller Barcode #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Requested Analyses: TO-15				Canister Vacuum/Pressure Initial (in Hg)	Final (in Hg)	Lab Use Only: Receipt (in Hg)	Final (in psi) Gas: N2 / He
01A	SS 7L-1	4531	26259	7-7	1151	7-7	1156	X				-29	-5		
02A	SS 7L-2	5039	24860	↓	1213	↓	1221	X				-28	-5		
03A	SS 7L-3	4556	24541	↓	1235	↓	1242	X				-29	-5		
04A	SS 7L-4	3265	23831	↓	1255	↓	1300	X				-27	-5		

Special Instructions/Notes:

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature]	7-7-25	1400	FEDEX	7-7-25	1400
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation) [signature] OAK	Date 7/8/25	Time 0973
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: Fed ex | Custody Seals Intact? Yes No None | Condition:

Sample Transportation Notice: Relinquishing signature on this document indicates that samples are shipped in compliance with all applicable local, State, Federal, and international laws, regulations, and ordinances of any kind. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Eurofins Air Toxics against any claim, demand, or action, of any kind, related to the collection, handling, of shipping of samples. D.O.T Hotline (800) 467-4922