



The **ELAM** Group

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May 12, 2025

Mr. Christopher Maurer
Voluntary Cleanup Program
Washington Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

VIA E-MAIL

Re: Commercial Building Vapor Intrusion Assessment at 2516 E Cherry St and
2518 E Cherry St
VCP ID: NW2009; Cleanup Site ID: 4175; Facility/Site ID: 4765174
Former Cherry Street Cleaners
2510 E Cherry St
Seattle, Washington 98122

Dear Mr. Maurer:

On behalf of the former Cherry Street Cleaners, this letter documents a vapor intrusion compliance assessment at the Twilight Exit Bar at 2516 E Cherry St (“2516”) and the former Tana Market at 2518 E Cherry St (“2518”). This work was undertaken pursuant to the Washington Department of Ecology (“Ecology”) approved *Cleanup Action Plan - Revision 1* (“CAPrev1”)¹ and the previous vapor intrusion assessment (“VIA”) report in this matter.²

The ELAM Group previously recommended conducting an annual inspection to assess whether the 2516 and 2518 E Cherry St properties were continuing to be used for commercial purposes. If Commercial land use is confirmed during the annual inspection, vapor intrusion (“VI”) sampling should be conducted at 2516 during the

¹ The ELAM Group, 2020, *Cleanup Action Plan (Revision 1)*, TO: Chris Mauer, Ecology, FROM: James Hogan, The ELAM Group, 7/30/20.

² The ELAM Group, 2024, *Commercial Building Vapor Intrusion Assessments at 2516 and Inspection of 2518 E. Cherry St.*, TO: Christopher Mauer, Ecology, FROM: James Hogan, The ELAM Group, 6/17/24.



“reasonable worst case” conditions scenario.^{3,4} If the land use changes to residential, additional VI sampling may be warranted. The following narrative provides background to the sampling history, describes the land use observations, documents the VI sampling procedures, and summarizes the results obtained from the 2516 and 2518 buildings in December 2024.

Background

Both buildings are located east of the former Cherry Street Cleaners dry cleaning facility, as shown on Figure 1. Cherry Street Cleaners was located at 2510 E Cherry St from 1968 to 2007. During this period, the facility handled tetrachloroethene (“PCE”), which was released to the subsurface environment. The constituents of concern (“COCs”) are associated with historical dry cleaning operations, including chlorinated volatile organic compounds (“cVOCs”) such as PCE and its daughter products trichloroethene (“TCE”), *cis*-1,2-dichloroethene (“c-DCE”), *trans*-1,2-dichloroethene (“t-DCE”) and vinyl chloride (“VC”). Several investigations and remedial activities for COC impacts to soil, groundwater and soil gas have ensued since 2007. Details of the prior work at this site is publicly available through Ecology’s dedicated website.⁵

Regarding 2516 and 2518 E Cherry St, Ecology issued an Opinion Letter (“Opinion”) on 11/17/14 about the VI sampling conducted during 2012 and 2013. The Opinion stated that the current receptors can be considered protected if levels detected are lower than the Washington Ecology Commercial Model Toxics Control Act (“MTCA”) Method C Commercial Indoor Air Cleanup Levels (“IACLs”), provided that the buildings remain in commercial use.

On 6/29/17, the buildings at 2516 and 2518 were reassessed because prior sub-slab soil gas (“SGss”) samples had not been collected contemporaneously with indoor air (“IA”) samples. In addition, the Cherry Street Cleaners building had been demolished

³ Ecology, 2022, *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action*, October 2009 (Revised February 2016, April 2018 and November 2021), Ecology: <https://fortress.wa.gov/ecy/publications/documents/0909047.pdf> (URL last accessed 2/4/25).

⁴ A “reasonable worst case” VI scenario as defined by Ecology’s *Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action*, dated October 2009 (revised February 2016, April 2018 and November 2021) is a period of time when the building’s interior is likely to be “depressurized with respect to the subsurface.” This condition is common during the “heating season”, but also during periods of falling barometric pressure and during snow and/or precipitation when soil gas may preferentially migrate to the drier subsurface airspace beneath building structures.

⁵ Ecology, 2024, *Cherry Street Cleaners*, Ecology: <https://fortress.wa.gov/ecy/gsp/Sitepage.aspx?csid=4175> (URL last accessed 2/4/25).



following those sampling events, and the 2516 and 2518 buildings had not been reassessed thereafter. To understand the resulting VI potential and plan appropriate action, a paired SGss/IA assessment was conducted. The results were reported to Ecology in a VIA report dated 12/1/17.⁶ The analytical results showed that, for the first time, the SGss concentrations were lower than the Method C Commercial SGSLs. The ELAM Group concluded that the 93% reduction in COC concentrations was related to the demolition of the former Cherry Street Cleaners building and subsequent off-gassing of COCs from the newly exposed soil. However, we recommended that VI sampling be conducted at 2016 and 2018 E Cherry St during the winter heating season, when the buildings' interiors were likely to be depressurized, to confirm the reduction in soil gas PCE and to understand the seasonal variability of the COC concentrations.

Accordingly, VI sampling was completed in February of 2018. The results were reported to Ecology in a VIA report dated 11/7/18.⁷ With the exception of SS-1, all of the COC concentrations from 2516 and 2518 once again complied with Ecology's respective Commercial SGSLs and IACLs. To ensure continued compliance, we recommended annual inspections of 2516 and 2518 to confirm continued Commercial land use. If Commercial use continues, VI sampling in 2516 would be conducted annually until the soil gas concentrations remained below the applicable SGSLs for two consecutive events.

Another VI sampling event was conducted in January of 2020. The results were reported to Ecology in a VIA report, dated 4/27/20.⁸ With the exception of SS-1, all COC concentrations from 2516 and 2518 once again complied with Ecology's respective Commercial SGSLs and IACLs. Continued annual inspection and VI sampling according to observed land use was carried forward into the Ecology-approved CAPrev1.⁹

An October 2021 VIA included the annual sampling and inspection specified in the CAPrev1. In addition, this VIA represented the first post-remedy sampling event following the June 2021 removal of a heating oil tank, excavation of the surface soils from 0 to 2 feet below ground surface ("bgs") and *in-situ* chemical oxidation ("ISCO")

⁶ The ELAM Group, 2017, *Commercial Building Vapor Intrusion Assessments at 2516 & 2518 E. Cherry St.*, TO: Dale Myers, Ecology, FROM: James Hogan, The ELAM Group, 12/1/17.

⁷ The ELAM Group, 2018, *Commercial Building Vapor Intrusion Assessments at 2516 & 2518 E. Cherry St.*, TO: Sonia Fernandez, Ecology, FROM: James Hogan, The ELAM Group, 11/7/18.

⁸ The ELAM Group, 2020, *Commercial Building Vapor Intrusion Assessments at 2516 and Inspection of 2518 E. Cherry St.*, TO: Christopher Mauer, Ecology, FROM: James Hogan, The ELAM Group, 4/27/20.

⁹ Ecology, 2020, *Opinion on Proposed Cleanup of the following Site.*, TO: Vera Benton, Cherry Street Cleaners, FROM: Chris Maurer, Ecology, 12/8/20.



from 2 to 10 feet bgs within Cherry Street Cleaners property boundary.¹⁰ Likewise, this report documents the continued effect of remedial actions on soil gas.

The March 2023 VIA continued the annual sampling and inspections specified in the CAPrev1. This work represented the second sampling event since the previously mentioned remedies were conducted in June of 2021. To address PCE impacts deeper in the vadose and saturated zones, the CAPrev1 specified installation of an Ozone Injection Treatment System (“OITS”), which commenced operation in November of 2022, and so this event also marked the first sampling event after this tier of remediation began.¹¹

This event also marked the first event for evaluating the data after Ecology changed the regulatory criteria to the January 2023 cleanup level and risk calculation (“CLARC”) comparison values.¹² The January 2023 SGSLs prompted re-analysis of the historical data for 2518, and that re-analysis prompted VI sampling again because the concentration from the sample from SS-1 exceeded the new Method C SGSL for PCE.

The February 2024 VI sampling event thus marked the first time the 2518 location had a VI sampling event since February 2018. This event also marked the first time that the COC concentrations in the soil gas samples collected from all of the subslab soil gas (“SGss”) ports from both 2516 and 2518 were below not only the Method C SGSLs but also the lower Method B SGSLs. This decreasing trend in soil gas concentrations over the past three sampling events since 2021 correlated well with the ongoing active remediation that had been ongoing for 15 months at that time and was thus attributed to the same.¹³ Nonetheless, additional sampling was warranted at 2516 and 2518 to assess compliance for two consecutive sampling events.

In response to the February 2024 report, on 7/15/24, you had noted that Ecology recently introduced new levels for Commercial workers and asked if those numbers would have any impact on the CAPrev1 remedial actions.¹⁴ While these new numbers on their own accord do not impact the remedial actions, the remedial actions remain

¹⁰ The ELAM Group, 2022, *Annual Report - 2510 E Cherry St, Seattle, WA*, TO: Christopher Mauer, Ecology, FROM: James Hogan, The ELAM Group, 4/5/22.

¹¹ The ELAM Group, 2023, *Annual Report - 2510 E Cherry St, Seattle, WA*, TO: Christopher Mauer, Ecology, FROM: James Hogan, The ELAM Group, 5/5/23.

¹² Ecology, 2024, *Cleanup Levels and Risk Calculation (CLARC)*, Ecology: <https://ecology.wa.gov/regulations-permits/guidance-technical-assistance/contamination-clean-up-tools/clarc> (URL last accessed 2/4/25).

¹³ The ELAM Group, 2024, *Commercial Building Vapor Intrusion Assessments at 2516 E Cherry St and 2518 E Cherry St*, TO: Christopher Mauer, Ecology, FROM: James Hogan, The ELAM Group, 6/17/24.

¹⁴ Ecology, 2024, RE: 6/17/24 - VCP #NW2009 VIA Report for 2516-2518 E Cherry Street (comments), TO: James Hogan, The ELAM Group, FROM: Chris Maurer, Ecology, 7/15/24.



under continued evaluation for efficacy and will be reported more fully in an Annual Report.

This most recent inspection and VI sampling in December 2024 at 2516 and 2518 reported herein documents the most recent data after 25 months of OITS operation. The data summary table in this report also includes the updated CLARC comparison values for clarity.

Inspection for Commercial Land Use

The ELAM Group's 12/9/24 inspection found that the Twilight Exit Bar continues to operate as a commercial business at 2516. There was no tenant in the commercial building space located at 2518. The status of both buildings will continue to be monitored as per the CAPrev1.

Procedures

On 12/9/24, The ELAM Group surveyed the 2516 and 2518 buildings to inventory COC-related chemicals. Because no substances there contained cVOCs, none were removed from the buildings. Thereafter, on 12/11/24, The ELAM Group initiated subslab and indoor air sampling using laboratory-supplied 6-liter stainless steel Summa canisters in accordance with the Ecology-approved Quality Assurance Project Plan - Revision 1 ("QAPPrev1"), dated 3/7/23.

Results

The analytical results are summarized in Table 1 and shown relative to the sample locations on Figure 2. The chemical inventories for each building are provided in Attachment A. The sampling forms are included in Attachment B. The laboratory analytical report including Summa canister certifications is provided in Attachment C.



Analysis

Cherry Street Cleaners COCs Trend Analysis

Like all VI sampling events conducted at 2516 and 2518 E Cherry St, the concentrations of the COCs in the IA samples collected in December 2024 remained in compliance with Ecology's Method C IACLs. By contrast, the concentrations of PCE and TCE in certain SGss samples exceeded the Method B and/or C SGSs. Based on these results, we offer the following:

1. The PCE concentrations detected in the samples collected from SS-1, SS-2, and SS-4 were not consistent with the downward trend observed in SGss concentrations over the three prior sampling events, beginning with the October 2021 sampling event, which were collected shortly after the initiation of remedial activities under CAPRev1. This atypical result prompted further inspection of the sampling procedures and data reporting.
2. As part of this review, no issues were identified concerning data integrity, including sample preservation, instrument calibration, method blanks, surrogate recoveries, laboratory control samples, field duplicates, or relative percent difference between field duplicates and corresponding field samples. The contract laboratory was also asked to review its data for potential errors related to dilution factors and quantification. The laboratory reported no errors and confirmed the accuracy of the data based on its internal review. Consequently, we have concluded the data are valid.
3. The consistency in the IA results over time do not correlate with the observed variability in soil gas concentrations. The Ecology VI guidance affirms that such lack of correlation is not unusual (Ecology 2022).
4. Most importantly, the indoor air data have consistently remained below the Method C IACLs. Including the current event, there are now ten consecutive indoor air data sets at 2516 and 2518 E Cherry St—collected on 10/23/12, 4/10/13, 5/30/13, 6/29/17, 2/28/18, 1/27/20, 10/4/21, 3/11/23, 2/28/24, and 12/5/24—all of which have remained in compliance with Method C IACLs for the COCs. Thus, every sampling event complies with the Method C IACLs, which aligns with Ecology's Opinion from 11/17/14 regarding compliance.



Chloroform

Chloroform exceeding Ecology's Method C SGSL was present in SS-2 and SS-4. The source of the chloroform may result from a disinfection byproduct of treated water and/or cleaning activities. Chlorine bleach can react with ethanol to produce chloroform. 2516 is a bar serving alcoholic beverages. If chlorine bleach is used to disinfect alcoholic beverage spills, the reaction would create chloroform.

Aside from this scenario, chloroform is also a daughter product of carbon tetrachloride ("CT") degradation. CT was commonly used as a dry-cleaning agent up through the 1940s, prior to the common use of PCE.¹⁵ Accordingly, the source of the CT could relate to a dry cleaner that operated during that time. The former Neighborhood Cleaners/Unique Cleaners building was present between 1924 and 1965 at 2522 E Cherry St ("2522").¹⁶

Cherry Street Cleaners' use of chlorinated solvent began in 1968 with PCE, which continued until dry-cleaning activities ceased in 2007. Prior to 1968, the business operated as Accurate Cleaners, which used petroleum-based dry cleaning solvents instead of PCE. Therefore, we conclude that the reported detections of CT and chloroform in the VI samples collected from 2516 are unrelated to the former operations of the Cherry Street Cleaners.

Petroleum-based Chemicals

The following petroleum-related COCs were detected at concentrations greater than their respective laboratory reporting limits: benzene, ethylbenzene, 1,2,4-trimethylbenzene, toluene, and xylene. Excluding benzene, the reported concentrations were below Ecology's respective Method C SGSLs and IACLs. These COCs are associated with petroleum and are therefore unrelated to PCE and daughter products from the former operations of the Cherry Street Cleaners.

¹⁵ Morrison, R.D. and Murphy, B.L., 2006, *Environmental Forensics*, Elsevier: New York, New York.

¹⁶ ECC Horizon, 2014, *Remedial Investigation*.



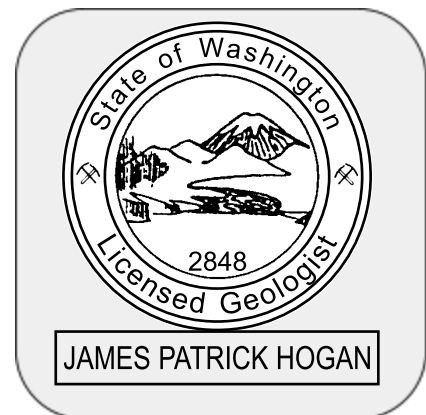
Summary

Based on the December 2024 VI sampling event, The ELAM Group concludes that the indoor air concentrations consistently remain below the Method C IACs for the COCs associated with the Cherry Street Cleaners, providing a consistent pattern of compliance with Ecology's Opinion from 11/17/14. Should the property usage change from Commercial to Residential, the more stringent Method B IACs would apply.

Should you have questions, please contact me at (888) 510-3526 x102 or james.hogan@elamusa.com.

Sincerely,

James P. Hogan, RG





Tables

Table 1. Summary of Sub-Slab Soil Gas and Indoor Air VOC Results

Former Cherry Cleaners
 2510 E. Cherry Street, Seattle, WA 98122
 VCP ID No. NW2009

Sampling Event	Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Chloroform
Chemical Abstracts Service Registry Number ("CASRN")										127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	67-66-3
2025 Indoor Air Cleanup Level, Method B										9.62	0.334	18.3	18.3	0.284	0.321	0.109
2025 Indoor Air Cleanup Level, Method C										40	2	40	40	2.84	3.21	1.09
2025 Indoor Air Cleanup Level, VI Wkr										44.9	2.85	156	156	1.33	1.5	0.508
2025 Sub-Slab Soil Gas Screening Level, Method B										320	11	610	610	9.5	11	3.6
2025 Sub-Slab Soil Gas Screening Level, Method C										1,300	67	1,300	1,300	95	110	36
2025 Sub-Slab Soil Gas Screening Level, VI Wkr										1,500	95	5,200	5,200	44	50	17
2516 E Cherry Street																
October 2012	SV-2	SV-2 Twilight	10/24/12	Sub-slab	6L Summa	NA	-28.5	-6	TO-15	36,000	<94	<69	<69	<45	<56	NT
	IA-2	IA-2 Twilight	10/24/12	Indoor Air	6L Summa	NA	-29.5	-8	TO-15	6.9	<0.19	<0.14	<0.71	<0.046	1.0	NT
	IA-3	IA-3 Twilight	10/24/12	Indoor Air	6L Summa	NA	-29	-8	TO-15	6.8	<0.20	<0.15	<0.76	<0.049	0.97	NT
	SV-3	SV-3 Twilight	10/24/12	Sub-slab	6L Summa	NA	-30+	-7	TO-15	28,000	<78	<58	<58	<37	<46	NT
	SV-4	SV-4 Twilight	10/24/12	Sub-slab	6L Summa	NA	-30	-8	TO-15	110,000	<240	<180	<180	<120	<140	NT
April 2013	IA-03	2516IA-03-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	24	<0.17	<0.13	<0.64	<0.041	0.59	NA
	IA-02	2516IA-02-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	12	<0.18	<0.13	<0.65	<0.042	0.61	NA
	Building Roof	2516INTAKE-20130410	04/10/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	0.24	<0.18	<0.13	<0.66	<0.042	0.40	NA
May 2013	IA-03	2516IA-03-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	25	<0.88	<0.65	<3.2	<0.21	<1.3	NA
	IA-02	2516IA-02-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	15	<0.36	<0.27	<1.3	<0.087	<0.54	NA
June 2017	IA-1	IA-1:A062917	06/29/17	Indoor Air	6L Summa	7.3	-30+	-4	TO-15	2.9	<0.22	<0.19	<0.30	<0.15	0.66	0.40
	SS-1	SS-1:A062917	06/29/17	Sub-slab	6L Summa	7.5	-30+	-4	TO-15	1,900	18.7	<0.18	<0.29	<0.15	1.5	6.2
	IA-2	IA-2:A062917	06/29/17	Indoor Air	6L Summa	7.4	-30+	-5	TO-15	2.2	<0.22	<0.19	<0.30	<0.15	0.57	0.51
	IA-2	FD:A062917	06/29/17	Indoor Air	6L Summa	7.4	-24.5	-3.5	TO-15	5.6	<0.21	<0.18	<0.29	<0.15	9.1	0.51
	SS-2	SS-2:A062917	06/29/17	Sub-slab	6L Summa	7.5	-27	-4	TO-15	636	6.9	<0.18	<0.29	<0.15	1.3	84.7
February 2018	IA-1	IA1:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30	-4	TO-15	19.6	0.13	<0.062	<0.062	<0.040	1.6	0.45
	SS-1	SS1:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30	-11	TO-15	8,550	9.5	<0.085	<0.085	<0.055	1.0	5.1
	IA-2	IA2:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30	-4	TO-15	16.9	1.2	<0.084	<0.084	<0.054	1.9	0.54
	SS-2	SS2:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30	-2	TO-15	544	3.3	<0.058	<0.058	<0.037	0.79	143
January 2020	IA-1	IA1:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30	-5.5	TO-15	4.1	<0.085	<0.062	<0.062	<0.040	1.9	0.44
	SS-1	SS1:A012720	01/27/20	Sub-slab	6L Summa	8.0	-30	-5.5	TO-15	28,000	<40.6	<30.0	<30.0	<19.3		
	IA-2	IA2:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30	-5	TO-15	7.2	<0.088	<0.065	<0.065	<0.042	2.1	1.1
	IA-2	DuplicateIA:A012720	01/27/20	Indoor Air	6L Summa	8.0	-30	-6	TO-15	8.0	<0.088	<0.065	<0.065	<0.042	2.1	1.1
	SS-2	SS2:A012720	01/27/20	Sub-slab	6L Summa	8.0	-29.9	-6	TO-15	742	3.8	<0.27	0.40	<0.17	2.6	82.6
October 2021	IA-1	IA1:A100421	10/04/21	Indoor Air	6L Summa	8.0	-29	-4	TO-15	2.1	0.13	<0.12	<0.12	<0.037	0.35	0.43
	SS-1	SS1:A100421	10/04/21	Sub-slab	6L Summa	8.0	-30	-2	TO-15	29,200	5.6	<0.12	<0.12	<0.037	0.36	5.4
	IA-2	IA2:A100421	10/04/21	Indoor Air	6L Summa	8.0	-30	-4.5	TO-15	0.91	<0.079	<0.12	<0.12	<0.037	0.33	0.24
	IA-2	FD1:A100421	10/04/21	Indoor Air	6L Summa	8.0	-30	-4.5	TO-15	0.94	2.4	1.6	<0.12	<0.039	0.32	0.24
	SS-2	SS2:A100421	10/04/21	Sub-slab	6L Summa	8.0	-30	-4	TO-15	6,320	14.3	<0.12	<0.12	<0.037	0.13	78.4

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2025 Sub-Slab Soil Gas Screening Level, VI Wkr										1,500	95	5,200	5,200	44	50	17
March 2023	IA-1	IA1:A031123	03/11/23	Indoor Air	6L Summa	8.0	-29	-5	TO-15 SIM	17	<0.52	<0.38	<1.9	<0.12		
	SS-1	SS1:A031123	03/11/23	Sub-slab	6L Summa	8.0	-29	-5.0	TO-15 SIM	1,300	4.8	<1.1	<5.4	<0.35		8.3
	IA-2	IA2:A031123	03/11/23	Indoor Air	6L Summa	8.0	-28.5	-3.5	TO-15 SIM	12	<0.27	<0.20	<1.0	<0.064	0.63	0.56
	IA-2	FD1:A031123	03/11/23	Indoor Air	6L Summa	8.0	-29.5	-3.5	TO-15 SIM	13	<0.47	<0.35	<1.7	<0.11		0.61
	SS-2	SS2:A031123	03/11/23	Sub-slab	6L Summa	8.0	-29	-3.5	TO-15 SIM	20	0.95	<0.10	<0.52	<0.033	0.52	36
February 2024	IA-1	IA-1 (2516) A:022824	02/28/24	Indoor Air	6L Summa	8.0	-28	-4	TO-15 SIM	28	<0.72	<0.53	<0.26	<0.17		
	SS-1	SS-1 (2516) A:022824	02/28/24	Sub-slab	6L Summa	8.0	-27	-5	TO-15	68	4.1	<0.59	<0.59	<0.38	1.1	6.3
	IA-2	IA-2 (2516) A:022824	02/28/24	Indoor Air	6L Summa	8.0	-28	-4	TO-15 SIM	32	<0.70	<0.52	<2.6	<0.17		0.81
	IA-2	Dup-1 (2516) A:022824	02/28/24	Indoor Air	6L Summa	8.0	-29	-5	TO-15 SIM	28	<0.36	<0.26	<1.3	<0.085	0.80	0.57
	SS-2	SS-2 (2516) A:022824	02/28/24	Sub-slab	6L Summa	8.0	-28.5	-4	TO-15	310	2.3	<0.49	<0.49	<0.32	0.51	53
December 2024	IA-1	IA1:A121124	12/11/24	Indoor Air	6L Summa	8.0	-30	-4	TO-15 SIM	23	<0.31	<0.23	<1.1	<0.073	1.6	1.0
	SS-1	SS1: A121124	12/11/24	Sub-slab	6L Summa	8.0	-29.5	-5	TO-15	50,000	120	<31	<28	<20		
	IA-2	IA2:A121124	12/11/24	Indoor Air	6L Summa	8.0	-28	-7	TO-15 SIM	22	<0.30	<0.22	<1.1	<0.072	1.6	1.3
	IA-2	FD1:A121124	12/11/24	Indoor Air	6L Summa	8.0	-29	-6	TO-15 SIM	22	<0.30	<0.22	<1.1	<0.072	1.6	1.2
	SS-2	SS2: A121124	12/11/24	Sub-slab	6L Summa	8.0	-30	-5	TO-15	880	<3.7	<2.7	<2.7	<1.8		86
2518 E Cherry Street																
October 2012	SV-5	SV-5 TANA MKT.	10/24/12	Sub-slab	6L Summa	NA	-30+	-7	TO-15	20	<0.18	<0.13	<0.67	<0.043	0.33	NT
	SV-6	SV-6 TANA MKT.	10/24/12	Sub-slab	6L Summa	NA	-30+	-7	TO-15	0.90	<0.18	<0.13	<0.67	<0.043	0.41	NT
	SV-7	SV-7 TANA MKT.	10/24/12	Sub-slab	6L Summa	NA	-28	-7	TO-15	1.8	<0.18	<0.13	<0.67	<0.043	0.50	NT
April 2013	IA-01	2518IA-01-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	15	<0.18	<0.13	<0.65	<0.042	1.1	NA
	IA-02	2518IA-02-20130410	04/10/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	3.0	<0.36	<0.26	<1.3	<0.085	0.90	NA
	Building Roof	2518INTAKE-20130410	04/10/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	0.33	<0.18	<0.14	<0.68	<0.044	0.44	NA
May 2013	IA-01	2518IA-01-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	20	<0.37	<0.27	<1.4	<0.087	0.88	NA
	IA-02	2518IA-02-20130530	05/30/13	Indoor Air	6L Summa	NA	NA	NA	TO-15	2.7	<0.45	<0.33	<1.7	<0.11	0.74	NA
June 2017	IA-3	IA-3:A062917	06/29/17	Indoor Air	6L Summa	7.3	-30	-4	TO-15	1.8	0.24	<0.18	<0.29	<0.15	0.79	0.73
	CSA-3	CSA-3:A062917	06/29/17	Crawlspace	6L Summa	7.3	-30+	-4	TO-15	1.4	0.36	<0.18	<0.29	<0.15	1.7	1.2
	IA-4	IA-4:A062917	06/29/17	Indoor Air	6L Summa	7.3	-30	-2	TO-15	5.7	1.5	<0.19	<0.30	<0.15	2.8	2.2
	SS-4	SS-4:A062917	06/29/17	Sub-slab	6L Summa	7.3	-30+	-4.5	TO-15	2,020	2.5	<0.18	<0.29	<0.15	1.4	3.9

Table 1. Summary of Sub-Slab Soil Gas and Indoor Air VOC Results

Former Cherry Cleaners
 2510 E. Cherry Street, Seattle, WA 98122
 VCP ID No. NW2009

Sampling Event	Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloroethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Chloroform
Chemical Abstracts Service Registry Number ("CASRN")										127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	67-66-3
2025 Indoor Air Cleanup Level, Method B										9.62	0.334	18.3	18.3	0.284	0.321	0.109
2025 Indoor Air Cleanup Level, Method C										40	2	40	40	2.84	3.21	1.09
2025 Indoor Air Cleanup Level, VI Wkr										44.9	2.85	156	156	1.33	1.5	0.508
2025 Sub-Slab Soil Gas Screening Level, Method B										320	11	610	610	9.5	11	3.6
2025 Sub-Slab Soil Gas Screening Level, Method C										1,300	67	1,300	1,300	95	110	36
2025 Sub-Slab Soil Gas Screening Level, VI Wkr										1,500	95	5,200	5,200	44	50	17
February 2018	IA-3	IA3:A022818	02/28/18	Indoor Air	6L Summa	8.0	-29	-2	TO-15	2.2	0.11	<0.062	<0.062	0.047	1.2	1.6
	CSA-3	CSA3:A022818	02/28/18	Crawlspace	6L Summa	8.0	-29	-4	TO-15	1.4	0.16	<0.062	<0.062	<0.040	0.97	0.60
	IA-4	IA4:A022818	02/28/18	Indoor Air	6L Summa	8.0	-27	-2	TO-15	3.4	0.86	<0.056	<0.056	<0.036	1.8	8.6
	IA-4	Dup2518:A022818	02/28/18	Indoor Air	6L Summa	8.0	-30	-5	TO-15	0.68	0.13	<0.062	<0.062	<0.040	1.7	7.8
	SS-4	SS4:A022818	02/28/18	Sub-slab	6L Summa	8.0	-30	-4	TO-15	1.610	0.34	<0.062	<0.062	<0.040	3.6	4.3
January 2020	The commercial building space located at 2518 was vacant and not open for business. Since Commercial land use was confirmed during the annual inspection, a VIA was not conducted in 2518 during the "reasonable worst case" scenario.															
October 2021	The commercial building space located at 2518 was vacant and not open for business. Since Commercial land use was confirmed during the annual inspection, a VIA was not conducted in 2518 during the "reasonable worst case" scenario.															
March 2023	The commercial building space located at 2518 was occupied by an art gallery. Since Commercial land use was confirmed during the annual inspection, a VIA was not conducted in 2518 during the "reasonable worst case" scenario.															
February 2024	IA-3	IA-3 (2518):A022824	02/28/24	Indoor Air	6L Summa	8.0	-28	-4	TO-15 SIM	0.42	<0.14	<0.10	<0.52	<0.033	0.42	0.13
	CSA-3	SS-3 (2518): A022824	02/28/24	Crawlspace	6L Summa	8.0	-26	-4	TO-15	5.0	<0.66	<0.49	<0.49	<0.31	0.74	
	IA-4	IA-4 (2518):A022824	02/28/18	Indoor Air	6L Summa	8.0	-27.5	-5	TO-15 SIM	1.0	<0.14	<0.10	<0.51	<0.033	0.42	0.14
	IA-4	Dup-2 (2518):A022824	02/28/18	Indoor Air	6L Summa	8.0	-28	-2	TO-15 SIM	0.48	<0.14	<0.10	<0.50	<0.032	0.43	0.14
	SS-4	SS-4 (2518): A022824	02/28/18	Sub-slab	6L Summa	8.0	-29.5	-5	TO-15	12	<0.69	<0.51	<0.51	<0.33	0.67	7.2
December 2024	IA-3	IA-3A:121124	12/10/24	Indoor Air	6L Summa	8.0	-30	-6	TO-15 SIM	2.7	<0.14	<0.10	<0.51	<0.033	1.4	0.29
	CSA-3	CS3: A121124	12/10/24	Crawlspace	6L Summa	8.0	-30	-5	TO-15	<0.90	<0.78	<0.53	<0.53	<0.34	0.78	
	IA-4	IA-4A:121124	12/10/24	Indoor Air	6L Summa	8.0	-30	-4	TO-15 SIM	4.7	<0.14	<0.10	<0.52	<0.034	1.5	0.38
	SS-4	SS4: A121124	12/10/24	Sub-slab	6L Summa	8.0	-30	-6	TO-15	6000	<18.0	<13.0	<13.0	<8.7		22
Outdoor Air																
October 2012	Outdoor	AMB-1	10/24/12	Outdoor Air	6L Summa	NA	-30+	-5.0	TO-15	0.68	<0.17	<0.12	<0.61	<0.040	0.81	NT
November 2012	Outdoor	AMB-2	11/14/12	Outdoor Air	6L Summa	NA	-30+	-2.5	TO-15	<0.73	<0.58	<0.42	<2.1	<0.14	1.2	
November 2012	AMB-3	AMB-3 ISS 720 25th Ave	11/30/12	Outdoor Air	6L Summa	8.0	-29.5	-8.0	TO-15 SIM	<0.22	<0.18	<0.13	<0.65	<0.042	0.84	NT
April 2013	Outdoor	AMB-01-20130410	04/10/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	0.26	<0.17	<0.12	<0.63	<0.040	0.75	NA
May 2013	Outdoor	AMB-01-20130530	05/30/13	Outdoor Air	6L Summa	NA	NA	NA	TO-15	<0.22	<0.18	<0.13	<0.66	<0.042	0.30	NA
November 2013	OA1	OA-1:A110713	11/07/13	Outdoor Air	6L Summa	8.0	-30.0+	-6.0	TO-15 SIM	<0.21	<0.17	<0.12	<0.61	<0.040	0.35	NT
November 2013	OA2	OA-1:A110713	11/07/13	Outdoor Air	6L Summa	8.0	-30.0+	-6.5	TO-15 SIM	<0.22	<0.17	<0.13	<0.63	<0.041	0.35	NT
June 2017	Outdoor	OA:A062917	06/29/17	Outdoor Air	6L Summa	6.1	-27	-2.0	TO-15	1.2	<0.21	<0.18	<0.29	<0.15	0.44	<0.14
February 2018	OA720	OA-720:A022818	02/28/18	Outdoor Air	6L Summa	8.0	-30.0+	-4.0	TO-15 SIM	0.20	0.17	<0.060	<0.060	<0.039	0.77	0.12
February 2018	Outdoor	OA2516:A022818	02/28/18	Outdoor Air	6L Summa	8.0	-30	-3.0	TO-15	0.42	<0.076	<0.056	<0.056	<0.036	0.87	0.14
January 2020	OA720	OA720:A012720	01/27/20	Outdoor Air	6L Summa	8.0	-30.0	-5.0	TO-15 SIM	1.3	0.089	<0.064	<0.064	<0.041	2.0	0.43
January 2020	Outdoor	OA2516:A012720	01/27/20	Outdoor Air	6L Summa	8.0	-29.5	-6.0	TO-15	1.3	0.087	<0.062	<0.062	0.042	2.5	0.50
October 2021	OA1	OA1:A100421	10/24/21	Outdoor Air	6L Summa	8.0	-30	-7.5	TO-15	0.18	<0.079	<0.12	<0.12	<0.037	0.44	
January 2022	OA	OA:A011322	01/13/22	Outdoor Air	6L Summa	8.0	-30	-5.0	TO-15	0.49	<0.077	<0.11	<0.11	<0.037	0.69	
March 2023	OA-1	OA1:A031123	03/11/23	Outdoor Air	6L Summa	8.0	-28	-6.0	TO-15 SIM	0.26	<0.14	<0.10	<0.52	<0.033	0.51	
February 2024	OA-1	OA1:A022824	02/28/24	Outdoor Air	6L Summa	8.0	-29	-4	TO-15 SIM	0.24	<0.14	<0.10	12	<.032	0.44	

Table 1. Summary of Sub-Slab Soil Gas and Indoor Air VOC Results

Former Cherry Cleaners
 2510 E. Cherry Street, Seattle, WA 98122
 VCP ID No. NW2009

Sampling Event	Sample Location	Sample ID	Date	Sample Type	Sample Container	Sample Duration (hrs)	Initial Field Can P ("Hg)	Final Field Can P ("Hg)	Analytical Method	Tetrachloro-ethene	Trichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Benzene	Chloroform
									Chemical Abstracts Service Registry Number ("CASRN")	127-18-4	79-01-6	156-59-2	156-60-5	75-01-4	71-43-2	67-66-3
									2025 Indoor Air Cleanup Level, Method B	9.62	0.334	18.3	18.3	0.284	0.321	0.109
									2025 Indoor Air Cleanup Level, Method C	40	2	40	40	2.84	3.21	1.09
									2025 Indoor Air Cleanup Level, VI Wkr	44.9	2.85	156	156	1.33	1.5	0.508
									2025 Sub-Slab Soil Gas Screening Level, Method B	320	11	610	610	9.5	11	3.6
									2025 Sub-Slab Soil Gas Screening Level, Method C	1,300	67	1,300	1,300	95	110	36
									2025 Sub-Slab Soil Gas Screening Level, VI Wkr	1,500	95	5,200	5,200	44	50	17
December 2024	OA-1	OA-1A:121124	12/11/24	Outdoor Air	6L Summa	8.0	-28.5	-6	TO-15 SIM	1.1	<0.16	<0.12	<0.58	<0.038	1.6	

Notes:

1. All air analytical results are presented in micrograms per cubic meter (ug/m3).
2. Gray shading indicates that air sample collected from below grade sample point.
3. All results are displayed for tetrachloroethene and its daughter compounds: trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene and vinyl chloride. The other compounds presented contain at least one sample that was detected at a concentration greater than the applicable regulatory value.
4. A bold font style indicates that the concentration exceeds the applicable Method B regulatory value. For carcinogens, the regulatory value for Cancer is used. For non-carcinogens, the regulatory value for Noncancer is used.
5. A bold underline font style indicates that the concentration exceeds the applicable Method C regulatory value. For carcinogens, the regulatory value for Cancer is used. For non-carcinogens, the regulatory value for Noncancer is used.
6. VI Wkr Screening Levels (developed by Ecology) are provided for comparison purposes.
7. NT = Not Tested.
8. NA = Not Available.



Figures



The **ELAM** Group

LEGEND

- Monitoring Well
- Injection Well
- Soil Vapor Extraction Well
- Vapor Monitoring Point
- Abandoned Injection Well
- Abandoned Soil Vapor Extraction Well
- Abandoned Vapor Monitoring Point
- Underground Sanitary Sewer Line
- Underground Water Line
- Underground Natural Gas Line
- Overhead Electric Line
- Utility Pole
- Tree
- Former Building Location
- Vapor Intrusion Assessment Location

Notes:

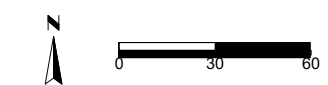


Figure No: 1
Title: Site Map
Scale: 1" = 60'
Project No: WAKS2510C22.10
Report: VIA Report
Drawn by: The ELAM Group
Date: 06/12/2024



JAMES PATRICK HOGAN



Attachment A

Chemical Inventories



Attachment A.1

Chemical Inventory - 2516 E Cherry St

Chemical Inventory

Building Name/Address: 2516 E Cherry St, Seattle, WA

Date: _____

Chemical Name	Container type/size	Location	cVOCs? (Y or N)	Removed? (Y or N)
Auto-Chlor Grill + Oven G.O.K. Cleaner (x2)	1gal Plastic	Kitchen - Storage	N	N
Monogram Bleach	1gal, Plastic	↓	N	N
Zepes Foam Hand Sanitizer	1gal, Plastic			
Deep Fat Fry Cleaner	1gal, Plastic			
Sani Foam Hand Sanitizer	1gal, Plastic			
Comet Bleach Cleaner	20oz, Cardboard			
Nu-Calgan Evap Foam No Rinse (x2)	18oz, Aerosol			
Lygol Toilet Bowl Cleaner (x4)	32oz, Plastic			
Drain Stop Remover	88oz, Plastic			
Fri's Hand Soap	1gal, Plastic			
Fri's Foaming Hand Wash	1gal, Plastic			
Green Kleen - Floor Cleaner	2.5L, Plastic			
Green Kleen - Enviro Soak	2.5L, Plastic			
Doal med - Burn Gel	144 Packets			
Loppetone - Sunscreen	8oz, Plastic			
Listerine - Mouth Wash	250ml, Plastic			
Mach Enviro Dry	1gal, Plastic			
Mach Wash Mak	1gal, Plastic	↓		
Auto Chlor Super 8 Cleaner (x2)	2.5gal, Plastic	Storage		
Auto Chlor - Glass Cleaner (x2)	2.5gal, Plastic	↓		
Armor Hammer - PVC Coil Cleaner	17oz, Aerosol			
Black Flag - Heat Seal	18oz, Aerosol	↓		
Fire Extinguisher	, metal)	↓	↓	↓



Attachment A.2

Chemical Inventory - 2518 E Cherry St



Attachment B

Summa Canister Air Sampling Forms



Attachment B.1

Summa Canister Air Sampling Form -
2516 E Cherry St

GENERAL INFORMATION

Cherry Chimes
 SAMPLING ADDRESS: *Twilight Bar*
 SAMPLING EVENT (circle one): SUMMERTIME WINTERTIME
 TEMPERATURE (F): BAROMETRIC PRESSURE: PRECIPITATION (circle one): Y N
 WIND DIRECTION (circle one): N NE E SE S SW W NW
 SAMPLING PERSONNEL ID & AFFILIATION: *R. Stee, The ELAM Group*

SAMPLING INFORMATION

SAMPLE ID		CANISTER #	FLOW CTRL #	READING (1)	DATE	TIME	CAN P ("Hg)
<i>IA-1 A: 12/11/24</i>		<i>3768</i>	<i>27285</i>	SHUT IN TEST	<i>12/10/24</i>	<i>0935</i>	<i>-30T</i>
				INITIAL		<i>0713</i>	<i>-30T</i>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<i>0814</i>	<i>-27</i>
<i>400 mL</i>	<i>TO-14A</i>	<i>Air</i>	<i>24 hour</i>			<i>0914</i>	<i>-24</i>
<i>1 L</i>	<i>TO-15</i>	<i>SGss</i>	<i>8 hour</i>			<i>1314</i>	<i>-8</i>
<i>6L</i>	<i>TO-15 SIM</i>	<i>SGe</i>	<i>200 ml/min</i>	FINAL		<i>1415</i>	<i>-6</i>
						<i>1513</i>	<i>-4</i>
<i>SS-1 A: 12/11/24</i>		<i>2766</i>	<i>26178</i>	SHUT IN TEST	<i>12/10/24</i>	<i>1015</i>	<i>-29.5</i>
				INITIAL		<i>0715</i>	<i>-29.5</i>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<i>0816</i>	<i>-25</i>
<i>400 mL</i>	<i>TO-14A</i>	<i>Air</i>	<i>24 hour</i>			<i>0916</i>	<i>-27-28</i>
<i>1 L</i>	<i>TO-15</i>	<i>SGss</i>	<i>8 hour</i>			<i>1016</i>	<i>-17.5</i>
<i>6L</i>	<i>TO-15 SIM</i>	<i>SGe</i>	<i>200 ml/min</i>	FINAL		<i>1315</i>	<i>-12</i>
						<i>1416</i>	<i>-8</i>
						<i>1514</i>	<i>-5</i>
<i>IA-2 A: 12/11/24</i>		<i>0595</i>	<i>22676</i>	SHUT IN TEST	<i>12/10/24</i>	<i>0945</i>	<i>-28</i>
				INITIAL		<i>0716</i>	<i>-28</i>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<i>0817</i>	<i>-27</i>
<i>400 mL</i>	<i>TO-14A</i>	<i>Air</i>	<i>24 hour</i>			<i>0917</i>	<i>-24</i>
<i>1 L</i>	<i>TO-15</i>	<i>SGss</i>	<i>8 hour</i>			<i>1314</i>	<i>-12</i>
<i>6L</i>	<i>TO-15 SIM</i>	<i>SGe</i>	<i>200 ml/min</i>	FINAL		<i>1416</i>	<i>-10</i>
						<i>1515</i>	<i>-7</i>
<i>SS-2 A: 12/11/24</i>		<i>0775</i>	<i>25762</i>	SHUT IN TEST	<i>12/10/24</i>	<i>1024</i>	<i>-29.530</i>
				INITIAL		<i>0717</i>	<i>-30</i>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<i>0818</i>	<i>-27</i>
<i>400 mL</i>	<i>TO-14A</i>	<i>Air</i>	<i>24 hour</i>			<i>0918</i>	<i>-23.5</i>
<i>1 L</i>	<i>TO-15</i>	<i>SGss</i>	<i>8 hour</i>			<i>1317</i>	<i>-11</i>
<i>6L</i>	<i>TO-15 SIM</i>	<i>SGe</i>	<i>200 ml/min</i>	FINAL		<i>1418</i>	<i>-1.5</i>
						<i>1516</i>	<i>-5</i>

(1) Pressure reading recording guidelines for various time-weighted average (TWA) valves:
 a. 24-hour TWA: Initial, Hour 1, Hour 2, Hour 22, Hour 23, and Final
 b. 8-hour TWA: Initial, Hour 1, Hour 2, Hour 6, Hour 7, and Final
 c. 200 mL/min: Initial and Final (5 min for 1 L, and 30 min for 6 L)



GENERAL INFORMATION							
SITE: <i>Cherry Cleaners</i>							
SAMPLING ADDRESS: <i>Twilight Bar</i>							
SAMPLING EVENT (circle one): <u>SUMMERTIME</u> <u>WINTERTIME</u>							
TEMPERATURE (F):		BAROMETRIC PRESSURE:		PRECIPITATION (circle one):		Y N	
WIND DIRECTION (circle one): N NE E SE S SW W NW							
SAMPLING PERSONNEL ID & AFFILIATION: <i>R. Stone, The ELAM Group</i>							

SAMPLING INFORMATION							
SAMPLE ID		CANISTER #	FLOW CTRL #	READING (1)	DATE	TIME	CAN P ("Hg)
<i>FD-1 A: 12/11/24</i>		<i>0572</i>	<i>25278</i>	SHUT IN TEST	<i>12/11/24</i>	<i>0953</i>	<i>-28.529</i>
				INITIAL		<i>0714</i>	<i>-29</i>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<i>0815</i>	<i>-24.5</i>
<i>400 mL</i>	<i>TO-14A</i>	<u><i>Air</i></u>	<i>24 hour</i>			<i>0915</i>	<i>-24</i>
<i>1 L</i>	<i>TO-15</i>	<i>SGss</i>	<u><i>8 hour</i></u>			<i>1318</i>	<i>-12</i>
<u><i>6 L</i></u>	<u><i>TO-15 SIM</i></u>	<i>SGe</i>	<i>200 ml/min</i>	FINAL		<i>1719</i>	<i>-9</i>
						<i>1517</i>	<i>-6</i>
SAMPLE ID		CANISTER #	FLOW CTRL #	READING (1)	DATE	TIME	CAN P ("Hg)
<i>OA-1 A: 12/11/24</i>		<i>4326</i>	<i>28075</i>	SHUT IN TEST	<i>12/11/24</i>	<i>0904</i>	<i>-28.5</i>
				INITIAL		<i>0718</i>	<i>-28.5</i>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<i>0819</i>	<i>-27</i>
<i>400 mL</i>	<i>TO-14A</i>	<u><i>Air</i></u>	<i>24 hour</i>			<i>0919</i>	<i>-25</i>
<i>1 L</i>	<i>TO-15</i>	<i>SGss</i>	<u><i>8 hour</i></u>			<i>1319</i>	<i>-13</i>
<u><i>6 L</i></u>	<u><i>TO-15 SIM</i></u>	<i>SGe</i>	<i>200 ml/min</i>	FINAL		<i>1428</i>	<i>-9</i>
						<i>1518</i>	<i>-6</i>
SAMPLE ID		CANISTER #	FLOW CTRL #	READING (1)	DATE	TIME	CAN P ("Hg)
				SHUT IN TEST			
				INITIAL			
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)				
<i>400 mL</i>	<i>TO-14A</i>	<i>Air</i>	<i>24 hour</i>				
<i>1 L</i>	<i>TO-15</i>	<i>SGss</i>	<i>8 hour</i>				
<i>6 L</i>	<i>TO-15 SIM</i>	<i>SGe</i>	<i>200 ml/min</i>	FINAL			
SAMPLE ID		CANISTER #	FLOW CTRL #	READING (1)	DATE	TIME	CAN P ("Hg)
				SHUT IN TEST			
				INITIAL			
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)				
<i>400 mL</i>	<i>TO-14A</i>	<i>Air</i>	<i>24 hour</i>				
<i>1 L</i>	<i>TO-15</i>	<i>SGss</i>	<i>8 hour</i>				
<i>6 L</i>	<i>TO-15 SIM</i>	<i>SGe</i>	<i>200 ml/min</i>	FINAL			

(1) Pressure reading recording guidelines for various time-weighted average (TWA) valves:
a. 24-hour TWA: Initial, Hour 1, Hour 2, Hour 22, Hour 23, and Final
b. 8-hour TWA: Initial, Hour 1, Hour 2, Hour 6, Hour 7, and Final
c. 200 mL/min: Initial and Final (5 min for 1 L, and 30 min for 6 L)



Attachment B.2

Summa Canister Air Sampling Form -
2518 E Cherry St



GENERAL INFORMATION							
SITE: <u>Cherry Meadows</u>							
SAMPLING ADDRESS: <u>Former Tana Market</u>							
SAMPLING EVENT (circle one): <u>SUMMERTIME</u> <u>WINTERTIME</u>							
TEMPERATURE (F):		BAROMETRIC PRESSURE:		PRECIPITATION (circle one):		Y N	
WIND DIRECTION (circle one): N NE E SE S SW W NW							
SAMPLING PERSONNEL ID & AFFILIATION: <u>R. Stover, The ELAM Group</u>							
SAMPLING INFORMATION							
SAMPLE ID		CANISTER #	FLOW CTRL #	READING (1)	DATE	TIME	CAN P ("Hg)
<u>IA-3 A: 12/11/24</u>		<u>2030</u> 27983	<u>27983</u>	SHUT IN TEST	<u>12/10/24</u>	<u>1164</u>	<u>-30</u>
				INITIAL		<u>0719</u>	<u>-30</u>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<u>0820</u>	<u>-28</u>
<u>400 mL</u>	<u>TO-14A</u>	<u>Air</u>	<u>24 hour</u>			<u>0920</u>	<u>-25</u>
<u>1 L</u>	<u>TO-15</u>	<u>SGss</u>	<u>8 hour</u>			<u>1320</u>	<u>-13</u>
<u>6 L</u>	<u>TO-15 SIM</u>	<u>SGe</u>	<u>200 ml/min</u>	FINAL		<u>1721</u>	<u>-10</u>
						<u>1519</u>	<u>-6</u>
SAMPLE ID		CANISTER #	FLOW CTRL #	READING (1)	DATE	TIME	CAN P ("Hg)
<u>CS-3 A: 12/11/24</u>		<u>0848</u>	<u>27286</u>	SHUT IN TEST	<u>12/10/24</u>	<u>1029</u>	<u>-30</u>
				INITIAL		<u>0720</u>	<u>-30</u>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<u>0821</u>	<u>-27</u>
<u>400 mL</u>	<u>TO-14A</u>	<u>Air</u>	<u>24 hour</u>			<u>0921</u>	<u>-25</u>
<u>1 L</u>	<u>TO-15</u>	<u>SGss</u>	<u>8 hour</u>			<u>1321</u>	<u>-11</u>
<u>6 L</u>	<u>TO-15 SIM</u>	<u>SGe</u>	<u>200 ml/min</u>	FINAL		<u>1722</u>	<u>-7.5</u>
						<u>1520</u>	<u>-5</u>
SAMPLE ID		CANISTER #	FLOW CTRL #	READING (1)	DATE	TIME	CAN P ("Hg)
<u>IA-4 A: 12/11/24</u>		<u>2037</u>	<u>22838</u>	SHUT IN TEST	<u>12/10/24</u>	<u>1116</u>	<u>-30</u>
				INITIAL		<u>0721</u>	<u>-30</u>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<u>0822</u>	<u>-27</u>
<u>400 mL</u>	<u>TO-14A</u>	<u>Air</u>	<u>24 hour</u>			<u>0922</u>	<u>-24</u>
<u>1 L</u>	<u>TO-15</u>	<u>SGss</u>	<u>8 hour</u>			<u>1322</u>	<u>-11</u>
<u>6 L</u>	<u>TO-15 SIM</u>	<u>SGe</u>	<u>200 ml/min</u>	FINAL		<u>1423</u>	<u>-7</u>
						<u>1521</u>	<u>-4</u>
SAMPLE ID		CANISTER #	FLOW CTRL #	READING (1)	DATE	TIME	CAN P ("Hg)
<u>SS-4 A: 12/11/24</u>		<u>0851</u>	<u>24166</u>	SHUT IN TEST	<u>12/10/24</u>	<u>1042</u>	<u>-30.5</u>
				INITIAL		<u>0722</u>	<u>-30.5</u>
TYPE (circle one)	METHOD (circle one)	SOURCE (circle one)	VALVE (circle one)			<u>0822</u>	<u>-28.5</u>
<u>400 mL</u>	<u>TO-14A</u>	<u>Air</u>	<u>24 hour</u>			<u>0927</u>	<u>-25</u>
<u>1 L</u>	<u>TO-15</u>	<u>SGss</u>	<u>8 hour</u>			<u>1323</u>	<u>-13</u>
<u>6 L</u>	<u>TO-15 SIM</u>	<u>SGe</u>	<u>200 ml/min</u>	FINAL		<u>1724</u>	<u>-8.5</u>
						<u>1522</u>	<u>-6</u>

(1) Pressure reading recording guidelines for various time-weighted average (TWA) valves:

- a. 24-hour TWA: Initial, Hour 1, Hour 2, Hour 22, Hour 23, and Final
- b. 8-hour TWA: Initial, Hour 1, Hour 2, Hour 6, Hour 7, and Final
- b. 200 mL/min: Initial and Final (5 min for 1 L, and 30 min for 6 L)



Attachment C

Laboratory Analytical Reports



Attachment C.1

Laboratory Analytical Report for IA Samples

1/3/2025
Mr. Chris Sloffer
The ELAM Group
161 Lakeview Drive
Ste B
Noblesville IN 46060

Project Name:
Project #: WAKS2510C
Workorder #: 2412598A

Dear Mr. Chris Sloffer

The following report includes the data for the above referenced project for sample(s) received on 12/16/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified 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: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Jade White
Project Manager

WORK ORDER #: 2412598A

Work Order Summary

CLIENT: Mr. Chris Sloffer
The ELAM Group
161 Lakeview Drive
Ste B
Noblesville, IN 46060

BILL TO: Ms. Accounts Payable
The ELAM Group
161 Lakeview Drive
Ste B
Noblesville, IN 46060

PHONE: 888-510-3526

P.O. # 23.8

FAX:

PROJECT # WAKS2510C

DATE RECEIVED: 12/16/2024

CONTACT: Jade White

DATE COMPLETED: 01/03/2025

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	IA1 : A121124	Modified TO-15	6.3 "Hg	1.9 psi
01B	IA1 : A121124	Modified TO-15	6.3 "Hg	1.9 psi
02A	IA2 : A121124	Modified TO-15	6.1 "Hg	1.9 psi
02B	IA2 : A121124	Modified TO-15	6.1 "Hg	1.9 psi
03A	IA3 : A121124	Modified TO-15	3.7 "Hg	1.9 psi
03B	IA3 : A121124	Modified TO-15	3.7 "Hg	1.9 psi
04A	IA4 : A121124	Modified TO-15	4.3 "Hg	1.9 psi
04B	IA4 : A121124	Modified TO-15	4.3 "Hg	1.9 psi
09A	FD1 : A121124	Modified TO-15	6.1 "Hg	1.9 psi
09B	FD1 : A121124	Modified TO-15	6.1 "Hg	1.9 psi
10A	OA1 : A121124	Modified TO-15	6.9 "Hg	1.9 psi
10B	OA1 : A121124	Modified TO-15	6.9 "Hg	1.9 psi
11A	Lab Blank	Modified TO-15	NA	NA
11B	Lab Blank	Modified TO-15	NA	NA
12A	CCV	Modified TO-15	NA	NA
12B	CCV	Modified TO-15	NA	NA
13A	LCS	Modified TO-15	NA	NA
13AA	LCSD	Modified TO-15	NA	NA
13B	LCS	Modified TO-15	NA	NA
13BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:



Technical Director

DATE: 01/03/25

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
Modified TO-15 Full Scan/SIM
The ELAM Group
Workorder# 2412598A

Six 6 Liter Summa Canister (100% SIM Ambient) samples were received on December 16, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
ICAL %RSD acceptance criteria	$\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD	For Full Scan: 30% RSD with 4 compounds allowed out to $< 40\%$ RSD For SIM: Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD
Daily Calibration	$\pm 30\%$ Difference	For Full Scan: $\leq 30\%$ Difference with four allowed out up to $\leq 40\%$.; flag and narrate outliers For SIM: Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for samples IA1 : A121124, IA2 : A121124, IA3 : A121124, IA4 : A121124, FD1 : A121124 and OA1 : A121124 did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in CCV analyses have not

been flagged.

Dilution was performed on samples IA1 : A121124, IA2 : A121124 and FD1 : A121124 due to the presence of high level target species.

The presence of a closely eluting non-target peak in samples IA3 : A121124 and IA4 : A121124 is interfering with the quantitation mass ion for 4-Ethyltoluene. The reported 4-Ethyltoluene concentration is flagged with a "CN" flag to indicate a high bias due to matrix contribution.

Ethanol was detected at a concentration less than 5 times the reporting limit in sample OA1 : A121124. Because the preceding sample contained a concentration of Ethanol exceeding the calibration range, the result for this compound in sample OA1 : A121124 may be biased high.

Definition of Data Qualifying Flags

Nine 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.

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

N - The identification is based on presumptive evidence.

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

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

Client Sample ID: IA1 : A121124

Lab ID#: 2412598A-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	5.7	560 E	11	1000 E
Acetone	5.7	51	14	120

Client Sample ID: IA1 : A121124

Lab ID#: 2412598A-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.50	0.71	2.4
Chloroform	0.057	0.22	0.28	1.0
Carbon Tetrachloride	0.057	0.063	0.36	0.39
Benzene	0.14	0.50	0.46	1.6
Toluene	0.14	1.0	0.54	3.8
Tetrachloroethene	0.057	3.4	0.39	23
Ethyl Benzene	0.057	0.17	0.25	0.73
m,p-Xylene	0.11	0.54	0.50	2.3
o-Xylene	0.057	0.18	0.25	0.80

Client Sample ID: IA2 : A121124

Lab ID#: 2412598A-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Ethanol	5.7	560 E	11	1100 E
Acetone	5.7	68	13	160

Client Sample ID: IA2 : A121124

Lab ID#: 2412598A-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.50	0.70	2.5
Chloroform	0.057	0.26	0.28	1.3
Carbon Tetrachloride	0.057	0.063	0.36	0.39
Benzene	0.14	0.50	0.45	1.6

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

Client Sample ID: IA2 : A121124

Lab ID#: 2412598A-02B

Toluene	0.14	1.0	0.53	3.8
Tetrachloroethene	0.057	3.2	0.38	22
Ethyl Benzene	0.057	0.17	0.24	0.72
m,p-Xylene	0.11	0.54	0.49	2.4
o-Xylene	0.057	0.18	0.24	0.81

Client Sample ID: IA3 : A121124

Lab ID#: 2412598A-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.28	0.72	1.6
Ethanol	2.6	75 E	4.9	140 E
Acetone	2.6	7.6	6.1	18
Cumene	0.13	0.13	0.63	0.63
Propylbenzene	0.13	0.32	0.63	1.6
4-Ethyltoluene	0.13	0.92 CN	0.63	4.5 CN
1,3,5-Trimethylbenzene	0.13	0.46	0.63	2.2
1,2,4-Trimethylbenzene	0.13	1.5	0.63	7.2

Client Sample ID: IA3 : A121124

Lab ID#: 2412598A-03B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.064	0.49	0.32	2.4
Chloroform	0.026	0.059	0.12	0.29
Carbon Tetrachloride	0.026	0.061	0.16	0.38
Benzene	0.064	0.45	0.21	1.4
Toluene	0.064	1.1	0.24	4.2
Tetrachloroethene	0.026	0.39	0.18	2.7
Ethyl Benzene	0.026	0.31	0.11	1.4
m,p-Xylene	0.052	0.91	0.22	4.0
o-Xylene	0.026	0.44	0.11	1.9

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

Client Sample ID: IA4 : A121124

Lab ID#: 2412598A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.29	0.74	1.6
Ethanol	2.6	130 E	5.0	240 E
Acetone	2.6	12	6.3	28
Propylbenzene	0.13	0.28	0.65	1.4
4-Ethyltoluene	0.13	0.83 CN	0.65	4.1 CN
1,3,5-Trimethylbenzene	0.13	0.40	0.65	1.9
1,2,4-Trimethylbenzene	0.13	1.3	0.65	6.3

Client Sample ID: IA4 : A121124

Lab ID#: 2412598A-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.066	0.50	0.33	2.5
Chloroform	0.026	0.078	0.13	0.38
Carbon Tetrachloride	0.026	0.062	0.17	0.39
Benzene	0.066	0.46	0.21	1.5
Toluene	0.066	1.1	0.25	4.3
Tetrachloroethene	0.026	0.69	0.18	4.7
Ethyl Benzene	0.026	0.30	0.11	1.3
m,p-Xylene	0.053	0.86	0.23	3.8
o-Xylene	0.026	0.41	0.11	1.8

Client Sample ID: FD1 : A121124

Lab ID#: 2412598A-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.28	0.29	1.6	1.6
Ethanol	5.7	560 E	11	1000 E
Acetone	5.7	61	13	140

Client Sample ID: FD1 : A121124

Lab ID#: 2412598A-09B

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

Client Sample ID: FD1 : A121124

Lab ID#: 2412598A-09B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.51	0.70	2.5
Chloroform	0.057	0.24	0.28	1.2
Carbon Tetrachloride	0.057	0.063	0.36	0.40
Benzene	0.14	0.50	0.45	1.6
Toluene	0.14	1.0	0.53	3.8
Tetrachloroethene	0.057	3.3	0.38	22
Ethyl Benzene	0.057	0.17	0.24	0.75
m,p-Xylene	0.11	0.58	0.49	2.5
o-Xylene	0.057	0.20	0.24	0.86

Client Sample ID: OA1 : A121124

Lab ID#: 2412598A-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.15	0.25	0.82	1.4
Ethanol	2.9	6.7	5.5	13
Acetone	2.9	98 E	7.0	230 E

Client Sample ID: OA1 : A121124

Lab ID#: 2412598A-10B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.074	0.51	0.36	2.5
Carbon Tetrachloride	0.029	0.065	0.18	0.41
Benzene	0.074	0.51	0.23	1.6
Toluene	0.074	1.0	0.28	3.8
Tetrachloroethene	0.029	0.16	0.20	1.1
Ethyl Benzene	0.029	1.4	0.13	6.2
m,p-Xylene	0.059	6.0	0.26	26
o-Xylene	0.029	1.4	0.13	6.3



Air Toxics

Client Sample ID: IA1 : A121124

Lab ID#: 2412598A-01A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010209	Date of Collection:	12/11/24 3:13:00 PM
Dil. Factor:	2.86	Date of Analysis:	1/2/25 04:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.29	Not Detected	0.63	Not Detected
Bromomethane	14	Not Detected	56	Not Detected
Freon 11	0.29	Not Detected	1.6	Not Detected
Ethanol	5.7	560 E	11	1000 E
Freon 113	0.29	Not Detected	2.2	Not Detected
Acetone	5.7	51	14	120
2-Propanol	5.7	Not Detected	14	Not Detected
Carbon Disulfide	1.4	Not Detected	4.4	Not Detected
3-Chloropropene	1.4	Not Detected	4.5	Not Detected
Methylene Chloride	0.57	Not Detected	2.0	Not Detected
Hexane	1.4	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.4	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Cyclohexane	1.4	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	1.4	Not Detected	6.7	Not Detected
Heptane	1.4	Not Detected	5.9	Not Detected
1,2-Dichloropropane	0.29	Not Detected	1.3	Not Detected
1,4-Dioxane	0.29	Not Detected	1.0	Not Detected
Bromodichloromethane	0.29	Not Detected	1.9	Not Detected
cis-1,3-Dichloropropene	0.29	Not Detected	1.3	Not Detected
4-Methyl-2-pentanone	0.29	Not Detected	1.2	Not Detected
trans-1,3-Dichloropropene	0.29	Not Detected	1.3	Not Detected
2-Hexanone	1.4	Not Detected	5.8	Not Detected
Dibromochloromethane	0.29	Not Detected	2.4	Not Detected
Chlorobenzene	0.29	Not Detected	1.3	Not Detected
Styrene	0.29	Not Detected	1.2	Not Detected
Bromoform	0.29	Not Detected	3.0	Not Detected
Cumene	0.29	Not Detected	1.4	Not Detected
Propylbenzene	0.29	Not Detected	1.4	Not Detected
4-Ethyltoluene	0.29	Not Detected	1.4	Not Detected
1,3,5-Trimethylbenzene	0.29	Not Detected	1.4	Not Detected
1,2,4-Trimethylbenzene	0.29	Not Detected	1.4	Not Detected
1,3-Dichlorobenzene	0.29	Not Detected	1.7	Not Detected
alpha-Chlorotoluene	0.29	Not Detected	1.5	Not Detected
1,2-Dichlorobenzene	0.29	Not Detected	1.7	Not Detected
1,2,4-Trichlorobenzene	1.4	Not Detected	11	Not Detected
Hexachlorobutadiene	1.4	Not Detected	15	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
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Air Toxics

Client Sample ID: IA1 : A121124

Lab ID#: 2412598A-01A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010209	Date of Collection: 12/11/24 3:13:00 PM
Dil. Factor:	2.86	Date of Analysis: 1/2/25 04:22 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	96	70-130



Air Toxics

Client Sample ID: IA1 : A121124

Lab ID#: 2412598A-01B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010209sim	Date of Collection:	12/11/24 3:13:00 PM
Dil. Factor:	2.86	Date of Analysis:	1/2/25 04:22 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.50	0.71	2.4
Freon 114	0.057	Not Detected	0.40	Not Detected
Chloromethane	1.4	Not Detected	3.0	Not Detected
Vinyl Chloride	0.029	Not Detected	0.073	Not Detected
Chloroethane	0.14	Not Detected	0.38	Not Detected
1,1-Dichloroethene	0.029	Not Detected	0.11	Not Detected
trans-1,2-Dichloroethene	0.29	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.29	Not Detected	1.0	Not Detected
1,1-Dichloroethane	0.057	Not Detected	0.23	Not Detected
cis-1,2-Dichloroethene	0.057	Not Detected	0.23	Not Detected
Chloroform	0.057	0.22	0.28	1.0
1,1,1-Trichloroethane	0.057	Not Detected	0.31	Not Detected
Carbon Tetrachloride	0.057	0.063	0.36	0.39
Benzene	0.14	0.50	0.46	1.6
1,2-Dichloroethane	0.057	Not Detected	0.23	Not Detected
Trichloroethene	0.057	Not Detected	0.31	Not Detected
Toluene	0.14	1.0	0.54	3.8
1,1,2-Trichloroethane	0.057	Not Detected	0.31	Not Detected
Tetrachloroethene	0.057	3.4	0.39	23
1,2-Dibromoethane (EDB)	0.057	Not Detected	0.44	Not Detected
Ethyl Benzene	0.057	0.17	0.25	0.73
m,p-Xylene	0.11	0.54	0.50	2.3
o-Xylene	0.057	0.18	0.25	0.80
1,1,2,2-Tetrachloroethane	0.057	Not Detected	0.39	Not Detected
1,4-Dichlorobenzene	0.057	Not Detected	0.34	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	115	70-130
4-Bromofluorobenzene	85	70-130



Air Toxics

Client Sample ID: IA2 : A121124

Lab ID#: 2412598A-02A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010212	Date of Collection:	12/11/24 3:15:00 PM
Dil. Factor:	2.83	Date of Analysis:	1/2/25 06:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.28	Not Detected	0.63	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Freon 11	0.28	Not Detected	1.6	Not Detected
Ethanol	5.7	560 E	11	1100 E
Freon 113	0.28	Not Detected	2.2	Not Detected
Acetone	5.7	68	13	160
2-Propanol	5.7	Not Detected	14	Not Detected
Carbon Disulfide	1.4	Not Detected	4.4	Not Detected
3-Chloropropene	1.4	Not Detected	4.4	Not Detected
Methylene Chloride	0.57	Not Detected	2.0	Not Detected
Hexane	1.4	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.4	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Cyclohexane	1.4	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	1.4	Not Detected	6.6	Not Detected
Heptane	1.4	Not Detected	5.8	Not Detected
1,2-Dichloropropane	0.28	Not Detected	1.3	Not Detected
1,4-Dioxane	0.28	Not Detected	1.0	Not Detected
Bromodichloromethane	0.28	Not Detected	1.9	Not Detected
cis-1,3-Dichloropropene	0.28	Not Detected	1.3	Not Detected
4-Methyl-2-pentanone	0.28	Not Detected	1.2	Not Detected
trans-1,3-Dichloropropene	0.28	Not Detected	1.3	Not Detected
2-Hexanone	1.4	Not Detected	5.8	Not Detected
Dibromochloromethane	0.28	Not Detected	2.4	Not Detected
Chlorobenzene	0.28	Not Detected	1.3	Not Detected
Styrene	0.28	Not Detected	1.2	Not Detected
Bromoform	0.28	Not Detected	2.9	Not Detected
Cumene	0.28	Not Detected	1.4	Not Detected
Propylbenzene	0.28	Not Detected	1.4	Not Detected
4-Ethyltoluene	0.28	Not Detected	1.4	Not Detected
1,3,5-Trimethylbenzene	0.28	Not Detected	1.4	Not Detected
1,2,4-Trimethylbenzene	0.28	Not Detected	1.4	Not Detected
1,3-Dichlorobenzene	0.28	Not Detected	1.7	Not Detected
alpha-Chlorotoluene	0.28	Not Detected	1.5	Not Detected
1,2-Dichlorobenzene	0.28	Not Detected	1.7	Not Detected
1,2,4-Trichlorobenzene	1.4	Not Detected	10	Not Detected
Hexachlorobutadiene	1.4	Not Detected	15	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
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Air Toxics

Client Sample ID: IA2 : A121124

Lab ID#: 2412598A-02A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010212	Date of Collection: 12/11/24 3:15:00 PM
Dil. Factor:	2.83	Date of Analysis: 1/2/25 06:12 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	93	70-130



Client Sample ID: IA2 : A121124

Lab ID#: 2412598A-02B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010212sim	Date of Collection:	12/11/24 3:15:00 PM
Dil. Factor:	2.83	Date of Analysis:	1/2/25 06:12 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.50	0.70	2.5
Freon 114	0.057	Not Detected	0.40	Not Detected
Chloromethane	1.4	Not Detected	2.9	Not Detected
Vinyl Chloride	0.028	Not Detected	0.072	Not Detected
Chloroethane	0.14	Not Detected	0.37	Not Detected
1,1-Dichloroethene	0.028	Not Detected	0.11	Not Detected
trans-1,2-Dichloroethene	0.28	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.28	Not Detected	1.0	Not Detected
1,1-Dichloroethane	0.057	Not Detected	0.23	Not Detected
cis-1,2-Dichloroethene	0.057	Not Detected	0.22	Not Detected
Chloroform	0.057	0.26	0.28	1.3
1,1,1-Trichloroethane	0.057	Not Detected	0.31	Not Detected
Carbon Tetrachloride	0.057	0.063	0.36	0.39
Benzene	0.14	0.50	0.45	1.6
1,2-Dichloroethane	0.057	Not Detected	0.23	Not Detected
Trichloroethene	0.057	Not Detected	0.30	Not Detected
Toluene	0.14	1.0	0.53	3.8
1,1,2-Trichloroethane	0.057	Not Detected	0.31	Not Detected
Tetrachloroethene	0.057	3.2	0.38	22
1,2-Dibromoethane (EDB)	0.057	Not Detected	0.43	Not Detected
Ethyl Benzene	0.057	0.17	0.24	0.72
m,p-Xylene	0.11	0.54	0.49	2.4
o-Xylene	0.057	0.18	0.24	0.81
1,1,2,2-Tetrachloroethane	0.057	Not Detected	0.39	Not Detected
1,4-Dichlorobenzene	0.057	Not Detected	0.34	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	84	70-130



Air Toxics

Client Sample ID: IA3 : A121124

Lab ID#: 2412598A-03A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010210	Date of Collection:	12/11/24 3:19:00 PM
Dil. Factor:	1.29	Date of Analysis:	1/2/25 04:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.13	Not Detected	0.28	Not Detected
Bromomethane	6.4	Not Detected	25	Not Detected
Freon 11	0.13	0.28	0.72	1.6
Ethanol	2.6	75 E	4.9	140 E
Freon 113	0.13	Not Detected	0.99	Not Detected
Acetone	2.6	7.6	6.1	18
2-Propanol	2.6	Not Detected	6.3	Not Detected
Carbon Disulfide	0.64	Not Detected	2.0	Not Detected
3-Chloropropene	0.64	Not Detected	2.0	Not Detected
Methylene Chloride	0.26	Not Detected	0.90	Not Detected
Hexane	0.64	Not Detected	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.64	Not Detected	1.9	Not Detected
Tetrahydrofuran	0.64	Not Detected	1.9	Not Detected
Cyclohexane	0.64	Not Detected	2.2	Not Detected
2,2,4-Trimethylpentane	0.64	Not Detected	3.0	Not Detected
Heptane	0.64	Not Detected	2.6	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.60	Not Detected
1,4-Dioxane	0.13	Not Detected	0.46	Not Detected
Bromodichloromethane	0.13	Not Detected	0.86	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
4-Methyl-2-pentanone	0.13	Not Detected	0.53	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.58	Not Detected
2-Hexanone	0.64	Not Detected	2.6	Not Detected
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
Chlorobenzene	0.13	Not Detected	0.59	Not Detected
Styrene	0.13	Not Detected	0.55	Not Detected
Bromoform	0.13	Not Detected	1.3	Not Detected
Cumene	0.13	0.13	0.63	0.63
Propylbenzene	0.13	0.32	0.63	1.6
4-Ethyltoluene	0.13	0.92 CN	0.63	4.5 CN
1,3,5-Trimethylbenzene	0.13	0.46	0.63	2.2
1,2,4-Trimethylbenzene	0.13	1.5	0.63	7.2
1,3-Dichlorobenzene	0.13	Not Detected	0.78	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.67	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.78	Not Detected
1,2,4-Trichlorobenzene	0.64	Not Detected	4.8	Not Detected
Hexachlorobutadiene	0.64	Not Detected	6.9	Not Detected

E = Exceeds instrument calibration range.

CN =See Case Narrative explanation

Container Type: 6 Liter Summa Canister (100% SIM Ambient)



Air Toxics

Client Sample ID: IA3 : A121124

Lab ID#: 2412598A-03A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010210	Date of Collection: 12/11/24 3:19:00 PM
Dil. Factor:	1.29	Date of Analysis: 1/2/25 04:58 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: IA3 : A121124

Lab ID#: 2412598A-03B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010210sim	Date of Collection:	12/11/24 3:19:00 PM
Dil. Factor:	1.29	Date of Analysis:	1/2/25 04:58 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.064	0.49	0.32	2.4
Freon 114	0.026	Not Detected	0.18	Not Detected
Chloromethane	0.64	Not Detected	1.3	Not Detected
Vinyl Chloride	0.013	Not Detected	0.033	Not Detected
Chloroethane	0.064	Not Detected	0.17	Not Detected
1,1-Dichloroethene	0.013	Not Detected	0.051	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.51	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.46	Not Detected
1,1-Dichloroethane	0.026	Not Detected	0.10	Not Detected
cis-1,2-Dichloroethene	0.026	Not Detected	0.10	Not Detected
Chloroform	0.026	0.059	0.12	0.29
1,1,1-Trichloroethane	0.026	Not Detected	0.14	Not Detected
Carbon Tetrachloride	0.026	0.061	0.16	0.38
Benzene	0.064	0.45	0.21	1.4
1,2-Dichloroethane	0.026	Not Detected	0.10	Not Detected
Trichloroethene	0.026	Not Detected	0.14	Not Detected
Toluene	0.064	1.1	0.24	4.2
1,1,2-Trichloroethane	0.026	Not Detected	0.14	Not Detected
Tetrachloroethene	0.026	0.39	0.18	2.7
1,2-Dibromoethane (EDB)	0.026	Not Detected	0.20	Not Detected
Ethyl Benzene	0.026	0.31	0.11	1.4
m,p-Xylene	0.052	0.91	0.22	4.0
o-Xylene	0.026	0.44	0.11	1.9
1,1,2,2-Tetrachloroethane	0.026	Not Detected	0.18	Not Detected
1,4-Dichlorobenzene	0.026	Not Detected	0.16	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	116	70-130
4-Bromofluorobenzene	90	70-130



Air Toxics

Client Sample ID: IA4 : A121124

Lab ID#: 2412598A-04A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010211	Date of Collection:	12/11/24 3:21:00 PM
Dil. Factor:	1.32	Date of Analysis:	1/2/25 05:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.13	Not Detected	0.29	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Freon 11	0.13	0.29	0.74	1.6
Ethanol	2.6	130 E	5.0	240 E
Freon 113	0.13	Not Detected	1.0	Not Detected
Acetone	2.6	12	6.3	28
2-Propanol	2.6	Not Detected	6.5	Not Detected
Carbon Disulfide	0.66	Not Detected	2.0	Not Detected
3-Chloropropene	0.66	Not Detected	2.1	Not Detected
Methylene Chloride	0.26	Not Detected	0.92	Not Detected
Hexane	0.66	Not Detected	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.66	Not Detected	1.9	Not Detected
Tetrahydrofuran	0.66	Not Detected	1.9	Not Detected
Cyclohexane	0.66	Not Detected	2.3	Not Detected
2,2,4-Trimethylpentane	0.66	Not Detected	3.1	Not Detected
Heptane	0.66	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.61	Not Detected
1,4-Dioxane	0.13	Not Detected	0.48	Not Detected
Bromodichloromethane	0.13	Not Detected	0.88	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
4-Methyl-2-pentanone	0.13	Not Detected	0.54	Not Detected
trans-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
2-Hexanone	0.66	Not Detected	2.7	Not Detected
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
Chlorobenzene	0.13	Not Detected	0.61	Not Detected
Styrene	0.13	Not Detected	0.56	Not Detected
Bromoform	0.13	Not Detected	1.4	Not Detected
Cumene	0.13	Not Detected	0.65	Not Detected
Propylbenzene	0.13	0.28	0.65	1.4
4-Ethyltoluene	0.13	0.83 CN	0.65	4.1 CN
1,3,5-Trimethylbenzene	0.13	0.40	0.65	1.9
1,2,4-Trimethylbenzene	0.13	1.3	0.65	6.3
1,3-Dichlorobenzene	0.13	Not Detected	0.79	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.68	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.79	Not Detected
1,2,4-Trichlorobenzene	0.66	Not Detected	4.9	Not Detected
Hexachlorobutadiene	0.66	Not Detected	7.0	Not Detected

E = Exceeds instrument calibration range.

CN =See Case Narrative explanation

Container Type: 6 Liter Summa Canister (100% SIM Ambient)



Air Toxics

Client Sample ID: IA4 : A121124

Lab ID#: 2412598A-04A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010211	Date of Collection: 12/11/24 3:21:00 PM
Dil. Factor:	1.32	Date of Analysis: 1/2/25 05:36 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	101	70-130



Client Sample ID: IA4 : A121124

Lab ID#: 2412598A-04B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010211sim	Date of Collection:	12/11/24 3:21:00 PM
Dil. Factor:	1.32	Date of Analysis:	1/2/25 05:36 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.066	0.50	0.33	2.5
Freon 114	0.026	Not Detected	0.18	Not Detected
Chloromethane	0.66	Not Detected	1.4	Not Detected
Vinyl Chloride	0.013	Not Detected	0.034	Not Detected
Chloroethane	0.066	Not Detected	0.17	Not Detected
1,1-Dichloroethene	0.013	Not Detected	0.052	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.52	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.48	Not Detected
1,1-Dichloroethane	0.026	Not Detected	0.11	Not Detected
cis-1,2-Dichloroethene	0.026	Not Detected	0.10	Not Detected
Chloroform	0.026	0.078	0.13	0.38
1,1,1-Trichloroethane	0.026	Not Detected	0.14	Not Detected
Carbon Tetrachloride	0.026	0.062	0.17	0.39
Benzene	0.066	0.46	0.21	1.5
1,2-Dichloroethane	0.026	Not Detected	0.11	Not Detected
Trichloroethene	0.026	Not Detected	0.14	Not Detected
Toluene	0.066	1.1	0.25	4.3
1,1,2-Trichloroethane	0.026	Not Detected	0.14	Not Detected
Tetrachloroethene	0.026	0.69	0.18	4.7
1,2-Dibromoethane (EDB)	0.026	Not Detected	0.20	Not Detected
Ethyl Benzene	0.026	0.30	0.11	1.3
m,p-Xylene	0.053	0.86	0.23	3.8
o-Xylene	0.026	0.41	0.11	1.8
1,1,2,2-Tetrachloroethane	0.026	Not Detected	0.18	Not Detected
1,4-Dichlorobenzene	0.026	Not Detected	0.16	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	115	70-130
4-Bromofluorobenzene	89	70-130



Air Toxics

Client Sample ID: FD1 : A121124

Lab ID#: 2412598A-09A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010213	Date of Collection:	12/11/24 3:17:00 PM
Dil. Factor:	2.83	Date of Analysis:	1/2/25 06:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.28	Not Detected	0.63	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Freon 11	0.28	0.29	1.6	1.6
Ethanol	5.7	560 E	11	1000 E
Freon 113	0.28	Not Detected	2.2	Not Detected
Acetone	5.7	61	13	140
2-Propanol	5.7	Not Detected	14	Not Detected
Carbon Disulfide	1.4	Not Detected	4.4	Not Detected
3-Chloropropene	1.4	Not Detected	4.4	Not Detected
Methylene Chloride	0.57	Not Detected	2.0	Not Detected
Hexane	1.4	Not Detected	5.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.4	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Cyclohexane	1.4	Not Detected	4.9	Not Detected
2,2,4-Trimethylpentane	1.4	Not Detected	6.6	Not Detected
Heptane	1.4	Not Detected	5.8	Not Detected
1,2-Dichloropropane	0.28	Not Detected	1.3	Not Detected
1,4-Dioxane	0.28	Not Detected	1.0	Not Detected
Bromodichloromethane	0.28	Not Detected	1.9	Not Detected
cis-1,3-Dichloropropene	0.28	Not Detected	1.3	Not Detected
4-Methyl-2-pentanone	0.28	Not Detected	1.2	Not Detected
trans-1,3-Dichloropropene	0.28	Not Detected	1.3	Not Detected
2-Hexanone	1.4	Not Detected	5.8	Not Detected
Dibromochloromethane	0.28	Not Detected	2.4	Not Detected
Chlorobenzene	0.28	Not Detected	1.3	Not Detected
Styrene	0.28	Not Detected	1.2	Not Detected
Bromoform	0.28	Not Detected	2.9	Not Detected
Cumene	0.28	Not Detected	1.4	Not Detected
Propylbenzene	0.28	Not Detected	1.4	Not Detected
4-Ethyltoluene	0.28	Not Detected	1.4	Not Detected
1,3,5-Trimethylbenzene	0.28	Not Detected	1.4	Not Detected
1,2,4-Trimethylbenzene	0.28	Not Detected	1.4	Not Detected
1,3-Dichlorobenzene	0.28	Not Detected	1.7	Not Detected
alpha-Chlorotoluene	0.28	Not Detected	1.5	Not Detected
1,2-Dichlorobenzene	0.28	Not Detected	1.7	Not Detected
1,2,4-Trichlorobenzene	1.4	Not Detected	10	Not Detected
Hexachlorobutadiene	1.4	Not Detected	15	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
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Air Toxics

Client Sample ID: FD1 : A121124

Lab ID#: 2412598A-09A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010213	Date of Collection: 12/11/24 3:17:00 PM
Dil. Factor:	2.83	Date of Analysis: 1/2/25 06:49 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: FD1 : A121124

Lab ID#: 2412598A-09B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010213sim	Date of Collection:	12/11/24 3:17:00 PM
Dil. Factor:	2.83	Date of Analysis:	1/2/25 06:49 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.14	0.51	0.70	2.5
Freon 114	0.057	Not Detected	0.40	Not Detected
Chloromethane	1.4	Not Detected	2.9	Not Detected
Vinyl Chloride	0.028	Not Detected	0.072	Not Detected
Chloroethane	0.14	Not Detected	0.37	Not Detected
1,1-Dichloroethene	0.028	Not Detected	0.11	Not Detected
trans-1,2-Dichloroethene	0.28	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.28	Not Detected	1.0	Not Detected
1,1-Dichloroethane	0.057	Not Detected	0.23	Not Detected
cis-1,2-Dichloroethene	0.057	Not Detected	0.22	Not Detected
Chloroform	0.057	0.24	0.28	1.2
1,1,1-Trichloroethane	0.057	Not Detected	0.31	Not Detected
Carbon Tetrachloride	0.057	0.063	0.36	0.40
Benzene	0.14	0.50	0.45	1.6
1,2-Dichloroethane	0.057	Not Detected	0.23	Not Detected
Trichloroethene	0.057	Not Detected	0.30	Not Detected
Toluene	0.14	1.0	0.53	3.8
1,1,2-Trichloroethane	0.057	Not Detected	0.31	Not Detected
Tetrachloroethene	0.057	3.3	0.38	22
1,2-Dibromoethane (EDB)	0.057	Not Detected	0.43	Not Detected
Ethyl Benzene	0.057	0.17	0.24	0.75
m,p-Xylene	0.11	0.58	0.49	2.5
o-Xylene	0.057	0.20	0.24	0.86
1,1,2,2-Tetrachloroethane	0.057	Not Detected	0.39	Not Detected
1,4-Dichlorobenzene	0.057	Not Detected	0.34	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	83	70-130



Air Toxics

Client Sample ID: OA1 : A121124

Lab ID#: 2412598A-10A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010214	Date of Collection:	12/11/24 3:18:00 PM
Dil. Factor:	1.47	Date of Analysis:	1/2/25 07:26 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.15	Not Detected	0.32	Not Detected
Bromomethane	7.4	Not Detected	28	Not Detected
Freon 11	0.15	0.25	0.82	1.4
Ethanol	2.9	6.7	5.5	13
Freon 113	0.15	Not Detected	1.1	Not Detected
Acetone	2.9	98 E	7.0	230 E
2-Propanol	2.9	Not Detected	7.2	Not Detected
Carbon Disulfide	0.74	Not Detected	2.3	Not Detected
3-Chloropropene	0.74	Not Detected	2.3	Not Detected
Methylene Chloride	0.29	Not Detected	1.0	Not Detected
Hexane	0.74	Not Detected	2.6	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.74	Not Detected	2.2	Not Detected
Tetrahydrofuran	0.74	Not Detected	2.2	Not Detected
Cyclohexane	0.74	Not Detected	2.5	Not Detected
2,2,4-Trimethylpentane	0.74	Not Detected	3.4	Not Detected
Heptane	0.74	Not Detected	3.0	Not Detected
1,2-Dichloropropane	0.15	Not Detected	0.68	Not Detected
1,4-Dioxane	0.15	Not Detected	0.53	Not Detected
Bromodichloromethane	0.15	Not Detected	0.98	Not Detected
cis-1,3-Dichloropropene	0.15	Not Detected	0.67	Not Detected
4-Methyl-2-pentanone	0.15	Not Detected	0.60	Not Detected
trans-1,3-Dichloropropene	0.15	Not Detected	0.67	Not Detected
2-Hexanone	0.74	Not Detected	3.0	Not Detected
Dibromochloromethane	0.15	Not Detected	1.2	Not Detected
Chlorobenzene	0.15	Not Detected	0.68	Not Detected
Styrene	0.15	Not Detected	0.63	Not Detected
Bromoform	0.15	Not Detected	1.5	Not Detected
Cumene	0.15	Not Detected	0.72	Not Detected
Propylbenzene	0.15	Not Detected	0.72	Not Detected
4-Ethyltoluene	0.15	Not Detected	0.72	Not Detected
1,3,5-Trimethylbenzene	0.15	Not Detected	0.72	Not Detected
1,2,4-Trimethylbenzene	0.15	Not Detected	0.72	Not Detected
1,3-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected
alpha-Chlorotoluene	0.15	Not Detected	0.76	Not Detected
1,2-Dichlorobenzene	0.15	Not Detected	0.88	Not Detected
1,2,4-Trichlorobenzene	0.74	Not Detected	5.4	Not Detected
Hexachlorobutadiene	0.74	Not Detected	7.8	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
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Air Toxics

Client Sample ID: OA1 : A121124

Lab ID#: 2412598A-10A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010214	Date of Collection: 12/11/24 3:18:00 PM
Dil. Factor:	1.47	Date of Analysis: 1/2/25 07:26 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: OA1 : A121124

Lab ID#: 2412598A-10B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010214sim	Date of Collection:	12/11/24 3:18:00 PM
Dil. Factor:	1.47	Date of Analysis:	1/2/25 07:26 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.074	0.51	0.36	2.5
Freon 114	0.029	Not Detected	0.20	Not Detected
Chloromethane	0.74	Not Detected	1.5	Not Detected
Vinyl Chloride	0.015	Not Detected	0.038	Not Detected
Chloroethane	0.074	Not Detected	0.19	Not Detected
1,1-Dichloroethene	0.015	Not Detected	0.058	Not Detected
trans-1,2-Dichloroethene	0.15	Not Detected	0.58	Not Detected
Methyl tert-butyl ether	0.15	Not Detected	0.53	Not Detected
1,1-Dichloroethane	0.029	Not Detected	0.12	Not Detected
cis-1,2-Dichloroethene	0.029	Not Detected	0.12	Not Detected
Chloroform	0.029	Not Detected	0.14	Not Detected
1,1,1-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Carbon Tetrachloride	0.029	0.065	0.18	0.41
Benzene	0.074	0.51	0.23	1.6
1,2-Dichloroethane	0.029	Not Detected	0.12	Not Detected
Trichloroethene	0.029	Not Detected	0.16	Not Detected
Toluene	0.074	1.0	0.28	3.8
1,1,2-Trichloroethane	0.029	Not Detected	0.16	Not Detected
Tetrachloroethene	0.029	0.16	0.20	1.1
1,2-Dibromoethane (EDB)	0.029	Not Detected	0.22	Not Detected
Ethyl Benzene	0.029	1.4	0.13	6.2
m,p-Xylene	0.059	6.0	0.26	26
o-Xylene	0.029	1.4	0.13	6.3
1,1,2,2-Tetrachloroethane	0.029	Not Detected	0.20	Not Detected
1,4-Dichlorobenzene	0.029	Not Detected	0.18	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	112	70-130
4-Bromofluorobenzene	81	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2412598A-11A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010208a	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/2/25 03:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2412598A-11A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010208a	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 03:31 PM

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
4-Bromofluorobenzene	95	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2412598A-11B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010208sima	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/2/25 03:31 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.050	Not Detected	0.25	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	116	70-130
4-Bromofluorobenzene	83	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 2412598A-12A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 11:27 AM

Compound	%Recovery
1,3-Butadiene	87
Bromomethane	133 Q
Freon 11	100
Ethanol	74
Freon 113	107
Acetone	89
2-Propanol	81
Carbon Disulfide	104
3-Chloropropene	98
Methylene Chloride	98
Hexane	89
2-Butanone (Methyl Ethyl Ketone)	99
Tetrahydrofuran	71
Cyclohexane	93
2,2,4-Trimethylpentane	116
Heptane	104
1,2-Dichloropropane	108
1,4-Dioxane	113
Bromodichloromethane	114
cis-1,3-Dichloropropene	108
4-Methyl-2-pentanone	99
trans-1,3-Dichloropropene	97
2-Hexanone	97
Dibromochloromethane	115
Chlorobenzene	108
Styrene	109
Bromoform	96
Cumene	103
Propylbenzene	115
4-Ethyltoluene	106
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	110
1,3-Dichlorobenzene	114
alpha-Chlorotoluene	125
1,2-Dichlorobenzene	113
1,2,4-Trichlorobenzene	119
Hexachlorobutadiene	118

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
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Air Toxics

Client Sample ID: CCV

Lab ID#: 2412598A-12A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010202	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 11:27 AM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	114	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 2412598A-12B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010202sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 11:27 AM

Compound	%Recovery
Freon 12	112
Freon 114	98
Chloromethane	85
Vinyl Chloride	98
Chloroethane	96
1,1-Dichloroethene	83
trans-1,2-Dichloroethene	92
Methyl tert-butyl ether	91
1,1-Dichloroethane	98
cis-1,2-Dichloroethene	89
Chloroform	91
1,1,1-Trichloroethane	92
Carbon Tetrachloride	121
Benzene	108
1,2-Dichloroethane	105
Trichloroethene	100
Toluene	107
1,1,2-Trichloroethane	94
Tetrachloroethene	104
1,2-Dibromoethane (EDB)	90
Ethyl Benzene	110
m,p-Xylene	106
o-Xylene	100
1,1,2,2-Tetrachloroethane	84
1,4-Dichlorobenzene	90

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	125	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 2412598A-13A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 12:09 PM

Compound	%Recovery	Method Limits
1,3-Butadiene	84	70-130
Bromomethane	98	70-130
Freon 11	96	70-130
Ethanol	81	70-130
Freon 113	99	70-130
Acetone	87	70-130
2-Propanol	93	70-130
Carbon Disulfide	100	70-130
3-Chloropropene	90	70-130
Methylene Chloride	94	70-130
Hexane	84	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
Tetrahydrofuran	71	70-130
Cyclohexane	88	70-130
2,2,4-Trimethylpentane	111	70-130
Heptane	102	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	113	70-130
Bromodichloromethane	106	70-130
cis-1,3-Dichloropropene	102	70-130
4-Methyl-2-pentanone	97	70-130
trans-1,3-Dichloropropene	92	70-130
2-Hexanone	97	70-130
Dibromochloromethane	107	70-130
Chlorobenzene	105	70-130
Styrene	110	70-130
Bromoform	90	70-130
Cumene	99	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	100	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	105	70-130
1,3-Dichlorobenzene	109	70-130
alpha-Chlorotoluene	122	70-130
1,2-Dichlorobenzene	108	70-130
1,2,4-Trichlorobenzene	139 Q	70-130
Hexachlorobutadiene	123	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
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Air Toxics

Client Sample ID: LCS

Lab ID#: 2412598A-13A

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010203	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 12:09 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	115	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2412598A-13AA

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 12:49 PM

Compound	%Recovery	Method Limits
1,3-Butadiene	84	70-130
Bromomethane	100	70-130
Freon 11	95	70-130
Ethanol	82	70-130
Freon 113	101	70-130
Acetone	85	70-130
2-Propanol	92	70-130
Carbon Disulfide	100	70-130
3-Chloropropene	91	70-130
Methylene Chloride	94	70-130
Hexane	86	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
Tetrahydrofuran	71	70-130
Cyclohexane	92	70-130
2,2,4-Trimethylpentane	114	70-130
Heptane	100	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	110	70-130
Bromodichloromethane	105	70-130
cis-1,3-Dichloropropene	103	70-130
4-Methyl-2-pentanone	96	70-130
trans-1,3-Dichloropropene	93	70-130
2-Hexanone	96	70-130
Dibromochloromethane	107	70-130
Chlorobenzene	103	70-130
Styrene	107	70-130
Bromoform	88	70-130
Cumene	98	70-130
Propylbenzene	105	70-130
4-Ethyltoluene	99	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	103	70-130
1,3-Dichlorobenzene	106	70-130
alpha-Chlorotoluene	120	70-130
1,2-Dichlorobenzene	107	70-130
1,2,4-Trichlorobenzene	137 Q	70-130
Hexachlorobutadiene	121	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
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Air Toxics

Client Sample ID: LCSD

Lab ID#: 2412598A-13AA

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010204	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 12:49 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	111	70-130
4-Bromofluorobenzene	114	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 2412598A-13B

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010203sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 12:09 PM

Compound	%Recovery	Method Limits
Freon 12	104	70-130
Freon 114	91	70-130
Chloromethane	83	70-130
Vinyl Chloride	92	70-130
Chloroethane	92	70-130
1,1-Dichloroethene	78	70-130
trans-1,2-Dichloroethene	87	70-130
Methyl tert-butyl ether	86	70-130
1,1-Dichloroethane	92	70-130
cis-1,2-Dichloroethene	84	70-130
Chloroform	86	70-130
1,1,1-Trichloroethane	87	70-130
Carbon Tetrachloride	111	60-140
Benzene	107	70-130
1,2-Dichloroethane	101	70-130
Trichloroethene	95	70-130
Toluene	104	70-130
1,1,2-Trichloroethane	89	70-130
Tetrachloroethene	99	70-130
1,2-Dibromoethane (EDB)	85	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	103	70-130
o-Xylene	97	70-130
1,1,2,2-Tetrachloroethane	80	70-130
1,4-Dichlorobenzene	86	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	125	70-130
4-Bromofluorobenzene	103	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2412598A-13BB

EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	22010204sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/2/25 12:49 PM

Compound	%Recovery	Method Limits
Freon 12	105	70-130
Freon 114	91	70-130
Chloromethane	84	70-130
Vinyl Chloride	93	70-130
Chloroethane	93	70-130
1,1-Dichloroethene	79	70-130
trans-1,2-Dichloroethene	88	70-130
Methyl tert-butyl ether	89	70-130
1,1-Dichloroethane	93	70-130
cis-1,2-Dichloroethene	85	70-130
Chloroform	87	70-130
1,1,1-Trichloroethane	89	70-130
Carbon Tetrachloride	114	60-140
Benzene	107	70-130
1,2-Dichloroethane	100	70-130
Trichloroethene	95	70-130
Toluene	103	70-130
1,1,2-Trichloroethane	89	70-130
Tetrachloroethene	98	70-130
1,2-Dibromoethane (EDB)	86	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	103	70-130
o-Xylene	96	70-130
1,1,2,2-Tetrachloroethane	81	70-130
1,4-Dichlorobenzene	85	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	124	70-130
4-Bromofluorobenzene	102	70-130

Method : _TO-15 Hi/Lo (LL Full List)-Std 25 RLs

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.050
76-14-2	Freon 114	0.020
74-87-3	Chloromethane	0.50
75-01-4	Vinyl Chloride	0.010
75-00-3	Chloroethane	0.050
75-35-4	1,1-Dichloroethene	0.010
156-60-5	trans-1,2-Dichloroethene	0.10
1634-04-4	Methyl tert-butyl ether	0.10
75-34-3	1,1-Dichloroethane	0.020
156-59-2	cis-1,2-Dichloroethene	0.020
67-66-3	Chloroform	0.020
71-55-6	1,1,1-Trichloroethane	0.020
56-23-5	Carbon Tetrachloride	0.020
71-43-2	Benzene	0.050
107-06-2	1,2-Dichloroethane	0.020
79-01-6	Trichloroethene	0.020
108-88-3	Toluene	0.050
79-00-5	1,1,2-Trichloroethane	0.020
127-18-4	Tetrachloroethene	0.020
106-93-4	1,2-Dibromoethane (EDB)	0.020
100-41-4	Ethyl Benzene	0.020
108-38-3	m,p-Xylene	0.040
95-47-6	o-Xylene	0.020
79-34-5	1,1,2,2-Tetrachloroethane	0.020
106-46-7	1,4-Dichlorobenzene	0.020
106-99-0	1,3-Butadiene	0.10
74-83-9	Bromomethane	5.0
75-69-4	Freon 11	0.10
64-17-5	Ethanol	2.0
76-13-1	Freon 113	0.10
67-64-1	Acetone	2.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	0.50
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	0.20
110-54-3	Hexane	0.50
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50
109-99-9	Tetrahydrofuran	0.50
110-82-7	Cyclohexane	0.50
540-84-1	2,2,4-Trimethylpentane	0.50
142-82-5	Heptane	0.50
78-87-5	1,2-Dichloropropane	0.10
123-91-1	1,4-Dioxane	0.10
75-27-4	Bromodichloromethane	0.10

Method : _TO-15 Hi/Lo (LL Full List)-Std 25 RLs

CAS Number	Compound	Rpt. Limit (ppbv)
10061-01-5	cis-1,3-Dichloropropene	0.10
108-10-1	4-Methyl-2-pentanone	0.10
10061-02-6	trans-1,3-Dichloropropene	0.10
591-78-6	2-Hexanone	0.50
124-48-1	Dibromochloromethane	0.10
108-90-7	Chlorobenzene	0.10
100-42-5	Styrene	0.10
75-25-2	Bromoform	0.10
98-82-8	Cumene	0.10
103-65-1	Propylbenzene	0.10
622-96-8	4-Ethyltoluene	0.10
108-67-8	1,3,5-Trimethylbenzene	0.10
95-63-6	1,2,4-Trimethylbenzene	0.10
541-73-1	1,3-Dichlorobenzene	0.10
100-44-7	alpha-Chlorotoluene	0.10
95-50-1	1,2-Dichlorobenzene	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50
87-68-3	Hexachlorobutadiene	0.50
	Surrogate	Method Limits
17060-07-0	1,2-Dichloroethane-d4	70-130
2037-26-5	Toluene-d8	70-130
460-00-4	4-Bromofluorobenzene	70-130



Attachment C.2

Laboratory Analytical Report for SGss Samples

1/7/2025
Mr. Chris Sloffer
The ELAM Group
161 Lakeview Drive
Ste B
Noblesville IN 46060

Project Name:
Project #: WAKS2510C
Workorder #: 2412598B

Dear Mr. Chris Sloffer

The following report includes the data for the above referenced project for sample(s) received on 12/16/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified 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: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Jade White
Project Manager

WORK ORDER #: 2412598B

Work Order Summary

CLIENT: Mr. Chris Sloffer
The ELAM Group
161 Lakeview Drive
Ste B
Noblesville, IN 46060

BILL TO: Ms. Accounts Payable
The ELAM Group
161 Lakeview Drive
Ste B
Noblesville, IN 46060

PHONE: 888-510-3526

P.O. # 23.8

FAX:

PROJECT # WAKS2510C

DATE RECEIVED: 12/16/2024

CONTACT: Jade White

DATE COMPLETED: 01/07/2025

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
05A	SS1 : A121124	Modified TO-15	8.6 "Hg	1.9 psi
06A	SS2 : A121124	Modified TO-15	5.5 "Hg	1.9 psi
07A	CS3 : A121124	Modified TO-15	4.5 "Hg	1.9 psi
08A	SS4 : A121124	Modified TO-15	5.1 "Hg	1.9 psi
09A	Lab Blank	Modified TO-15	NA	NA
09B	Lab Blank	Modified TO-15	NA	NA
09C	Lab Blank	Modified TO-15	NA	NA
10A	CCV	Modified TO-15	NA	NA
10B	CCV	Modified TO-15	NA	NA
10C	CCV	Modified TO-15	NA	NA
11A	LCS	Modified TO-15	NA	NA
11AA	LCSD	Modified TO-15	NA	NA
11B	LCS	Modified TO-15	NA	NA
11BB	LCSD	Modified TO-15	NA	NA
11C	LCS	Modified TO-15	NA	NA
11CC	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: 

DATE: 01/07/25

Technical Director

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
Modified TO-15
The ELAM Group
Workorder# 2412598B

Four 6 Liter Summa Canister (100% Certified) samples were received on December 16, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

<i>Requirement</i>	<i>TO-15</i>	<i>ATL Modifications</i>
Initial Calibration	$\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD	$\leq 30\%$ RSD with 4 compounds allowed out to <math>< 40\%</math> RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

The Chain of Custody (COC) information for samples SS1 : A121124, SS2 : A121124, CS3 : A121124 and SS4 : A121124 did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Dilution was performed on samples SS1 : A121124, SS2 : A121124 and SS4 : A121124 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight 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.

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

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

Client Sample ID: SS1 : A121124

Lab ID#: 2412598B-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	7.9	22	42	120
Tetrachloroethene	7.9	7400	54	50000

Client Sample ID: SS2 : A121124

Lab ID#: 2412598B-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	0.69	18	3.4	86
Toluene	0.69	0.80	2.6	3.0
Tetrachloroethene	0.69	130	4.7	880
m,p-Xylene	0.69	1.0	3.0	4.4

Client Sample ID: CS3 : A121124

Lab ID#: 2412598B-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 11	0.13	0.18	0.75	1.0
Benzene	0.13	0.24	0.42	0.78
Toluene	0.13	0.64	0.50	2.4
m,p-Xylene	0.13	0.33	0.58	1.4
o-Xylene	0.13	0.15	0.58	0.65
4-Ethyltoluene	0.13	0.13 J	0.65	0.63 J
1,2,4-Trimethylbenzene	0.13	0.13	0.65	0.66

Client Sample ID: SS4 : A121124

Lab ID#: 2412598B-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Chloroform	3.4	4.6	17	22
Tetrachloroethene	3.4	890	23	6000



Air Toxics

Client Sample ID: SS1 : A121124

Lab ID#: 2412598B-05A

EPA METHOD TO-15 GC/MS

File Name:	14010609	Date of Collection:	12/11/24 3:14:00 PM
Dil. Factor:	1.58	Date of Analysis:	1/6/25 11:11 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	7.9	Not Detected	39	Not Detected
Freon 114	7.9	Not Detected	55	Not Detected
Chloromethane	32	Not Detected	65	Not Detected
Vinyl Chloride	7.9	Not Detected	20	Not Detected
1,3-Butadiene	7.9	Not Detected	17	Not Detected
Bromomethane	32	Not Detected	120	Not Detected
Chloroethane	32	Not Detected	83	Not Detected
Freon 11	7.9	Not Detected	44	Not Detected
Ethanol	40	Not Detected	74	Not Detected
Freon 113	7.9	Not Detected	60	Not Detected
1,1-Dichloroethene	7.9	Not Detected	31	Not Detected
Acetone	32	Not Detected	75	Not Detected
2-Propanol	40	Not Detected	97	Not Detected
Carbon Disulfide	32	Not Detected	98	Not Detected
3-Chloropropene	32	Not Detected	99	Not Detected
Methylene Chloride	32	Not Detected	110	Not Detected
Methyl tert-butyl ether	7.9	Not Detected	28	Not Detected
trans-1,2-Dichloroethene	7.9	Not Detected	31	Not Detected
Hexane	7.9	Not Detected	28	Not Detected
1,1-Dichloroethane	7.9	Not Detected	32	Not Detected
2-Butanone (Methyl Ethyl Ketone)	32	Not Detected	93	Not Detected
cis-1,2-Dichloroethene	7.9	Not Detected	31	Not Detected
Tetrahydrofuran	7.9	Not Detected	23	Not Detected
Chloroform	7.9	Not Detected	38	Not Detected
1,1,1-Trichloroethane	7.9	Not Detected	43	Not Detected
Cyclohexane	7.9	Not Detected	27	Not Detected
Carbon Tetrachloride	7.9	Not Detected	50	Not Detected
2,2,4-Trimethylpentane	7.9	Not Detected	37	Not Detected
Benzene	7.9	Not Detected	25	Not Detected
1,2-Dichloroethane	7.9	Not Detected	32	Not Detected
Heptane	7.9	Not Detected	32	Not Detected
Trichloroethene	7.9	22	42	120
1,2-Dichloropropane	7.9	Not Detected	36	Not Detected
1,4-Dioxane	32	Not Detected	110	Not Detected
Bromodichloromethane	7.9	Not Detected	53	Not Detected
cis-1,3-Dichloropropene	7.9	Not Detected	36	Not Detected
4-Methyl-2-pentanone	32	Not Detected	130	Not Detected
Toluene	7.9	Not Detected	30	Not Detected
trans-1,3-Dichloropropene	7.9	Not Detected	36	Not Detected
1,1,2-Trichloroethane	7.9	Not Detected	43	Not Detected
Tetrachloroethene	7.9	7400	54	50000
2-Hexanone	32	Not Detected	130	Not Detected



Air Toxics

Client Sample ID: SS1 : A121124

Lab ID#: 2412598B-05A

EPA METHOD TO-15 GC/MS

File Name:	14010609	Date of Collection:	12/11/24 3:14:00 PM
Dil. Factor:	1.58	Date of Analysis:	1/6/25 11:11 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	7.9	Not Detected	67	Not Detected
1,2-Dibromoethane (EDB)	7.9	Not Detected	61	Not Detected
Chlorobenzene	7.9	Not Detected	36	Not Detected
Ethyl Benzene	7.9	Not Detected	34	Not Detected
m,p-Xylene	7.9	Not Detected	34	Not Detected
o-Xylene	7.9	Not Detected	34	Not Detected
Styrene	7.9	Not Detected	34	Not Detected
Bromoform	7.9	Not Detected	82	Not Detected
Cumene	7.9	Not Detected	39	Not Detected
1,1,2,2-Tetrachloroethane	7.9	Not Detected	54	Not Detected
Propylbenzene	7.9	Not Detected	39	Not Detected
4-Ethyltoluene	7.9	Not Detected	39	Not Detected
1,3,5-Trimethylbenzene	7.9	Not Detected	39	Not Detected
1,2,4-Trimethylbenzene	7.9	Not Detected	39	Not Detected
1,3-Dichlorobenzene	7.9	Not Detected	48	Not Detected
1,4-Dichlorobenzene	7.9	Not Detected	48	Not Detected
alpha-Chlorotoluene	7.9	Not Detected	41	Not Detected
1,2-Dichlorobenzene	7.9	Not Detected	47	Not Detected
1,2,4-Trichlorobenzene	32	Not Detected	230	Not Detected
Hexachlorobutadiene	32	Not Detected	340	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130



Air Toxics

Client Sample ID: SS2 : A121124

Lab ID#: 2412598B-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010320	Date of Collection:	12/11/24 3:16:00 PM
Dil. Factor:	6.91	Date of Analysis:	1/3/25 10:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.4	Not Detected	17	Not Detected
Freon 114	0.69	Not Detected	4.8	Not Detected
Chloromethane	3.4	Not Detected	7.1	Not Detected
Vinyl Chloride	0.69	Not Detected	1.8	Not Detected
1,3-Butadiene	0.69	Not Detected	1.5	Not Detected
Bromomethane	34	Not Detected	130	Not Detected
Chloroethane	3.4	Not Detected	9.1	Not Detected
Freon 11	0.69	Not Detected	3.9	Not Detected
Ethanol	14	Not Detected	26	Not Detected
Freon 113	0.69	Not Detected	5.3	Not Detected
1,1-Dichloroethene	0.69	Not Detected	2.7	Not Detected
Acetone	14	Not Detected	33	Not Detected
2-Propanol	14	Not Detected	34	Not Detected
Carbon Disulfide	3.4	Not Detected	11	Not Detected
3-Chloropropene	3.4	Not Detected	11	Not Detected
Methylene Chloride	1.4	Not Detected	4.8	Not Detected
Methyl tert-butyl ether	0.69	Not Detected	2.5	Not Detected
trans-1,2-Dichloroethene	0.69	Not Detected	2.7	Not Detected
Hexane	3.4	Not Detected	12	Not Detected
1,1-Dichloroethane	0.69	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	Not Detected	10	Not Detected
cis-1,2-Dichloroethene	0.69	Not Detected	2.7	Not Detected
Tetrahydrofuran	3.4	Not Detected	10	Not Detected
Chloroform	0.69	18	3.4	86
1,1,1-Trichloroethane	0.69	Not Detected	3.8	Not Detected
Cyclohexane	3.4	Not Detected	12	Not Detected
Carbon Tetrachloride	0.69	Not Detected	4.3	Not Detected
2,2,4-Trimethylpentane	3.4	Not Detected	16	Not Detected
Benzene	0.69	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.69	Not Detected	2.8	Not Detected
Heptane	3.4	Not Detected	14	Not Detected
Trichloroethene	0.69	Not Detected	3.7	Not Detected
1,2-Dichloropropane	0.69	Not Detected	3.2	Not Detected
1,4-Dioxane	0.69	Not Detected	2.5	Not Detected
Bromodichloromethane	0.69	Not Detected	4.6	Not Detected
cis-1,3-Dichloropropene	0.69	Not Detected	3.1	Not Detected
4-Methyl-2-pentanone	0.69	Not Detected	2.8	Not Detected
Toluene	0.69	0.80	2.6	3.0
trans-1,3-Dichloropropene	0.69	Not Detected	3.1	Not Detected
1,1,2-Trichloroethane	0.69	Not Detected	3.8	Not Detected
Tetrachloroethene	0.69	130	4.7	880
2-Hexanone	3.4	Not Detected	14	Not Detected



Air Toxics

Client Sample ID: SS2 : A121124

Lab ID#: 2412598B-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010320	Date of Collection:	12/11/24 3:16:00 PM
Dil. Factor:	6.91	Date of Analysis:	1/3/25 10:01 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.69	Not Detected	5.9	Not Detected
1,2-Dibromoethane (EDB)	0.69	Not Detected	5.3	Not Detected
Chlorobenzene	0.69	Not Detected	3.2	Not Detected
Ethyl Benzene	0.69	Not Detected	3.0	Not Detected
m,p-Xylene	0.69	1.0	3.0	4.4
o-Xylene	0.69	Not Detected	3.0	Not Detected
Styrene	0.69	Not Detected	2.9	Not Detected
Bromoform	0.69	Not Detected	7.1	Not Detected
Cumene	0.69	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.69	Not Detected UJ	4.7	Not Detected UJ
Propylbenzene	0.69	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.69	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.69	Not Detected	3.4	Not Detected
1,2,4-Trimethylbenzene	0.69	Not Detected	3.4	Not Detected
1,3-Dichlorobenzene	0.69	Not Detected	4.2	Not Detected
1,4-Dichlorobenzene	0.69	Not Detected	4.2	Not Detected
alpha-Chlorotoluene	0.69	Not Detected	3.6	Not Detected
1,2-Dichlorobenzene	0.69	Not Detected	4.2	Not Detected
1,2,4-Trichlorobenzene	3.4	Not Detected	26	Not Detected
Hexachlorobutadiene	3.4	Not Detected	37	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	84	70-130



Air Toxics

Client Sample ID: CS3 : A121124

Lab ID#: 2412598B-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010321	Date of Collection:	12/11/24 3:20:00 PM
Dil. Factor:	1.33	Date of Analysis:	1/3/25 10:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.66	Not Detected	3.3	Not Detected
Freon 114	0.13	Not Detected	0.93	Not Detected
Chloromethane	0.66	Not Detected	1.4	Not Detected
Vinyl Chloride	0.13	Not Detected	0.34	Not Detected
1,3-Butadiene	0.13	Not Detected	0.29	Not Detected
Bromomethane	6.6	Not Detected	26	Not Detected
Chloroethane	0.66	Not Detected	1.8	Not Detected
Freon 11	0.13	0.18	0.75	1.0
Ethanol	2.7	Not Detected	5.0	Not Detected
Freon 113	0.13	Not Detected	1.0	Not Detected
1,1-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Acetone	2.7	Not Detected	6.3	Not Detected
2-Propanol	2.7	Not Detected	6.5	Not Detected
Carbon Disulfide	0.66	Not Detected	2.1	Not Detected
3-Chloropropene	0.66	Not Detected	2.1	Not Detected
Methylene Chloride	0.27	Not Detected	0.92	Not Detected
Methyl tert-butyl ether	0.13	Not Detected	0.48	Not Detected
trans-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Hexane	0.66	Not Detected	2.3	Not Detected
1,1-Dichloroethane	0.13	Not Detected	0.54	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.66	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.13	Not Detected	0.53	Not Detected
Tetrahydrofuran	0.66	Not Detected	2.0	Not Detected
Chloroform	0.13	Not Detected	0.65	Not Detected
1,1,1-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Cyclohexane	0.66	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.13	Not Detected	0.84	Not Detected
2,2,4-Trimethylpentane	0.66	Not Detected	3.1	Not Detected
Benzene	0.13	0.24	0.42	0.78
1,2-Dichloroethane	0.13	Not Detected	0.54	Not Detected
Heptane	0.66	Not Detected	2.7	Not Detected
Trichloroethene	0.13	Not Detected	0.71	Not Detected
1,2-Dichloropropane	0.13	Not Detected	0.61	Not Detected
1,4-Dioxane	0.13	Not Detected	0.48	Not Detected
Bromodichloromethane	0.13	Not Detected	0.89	Not Detected
cis-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
4-Methyl-2-pentanone	0.13	Not Detected	0.54	Not Detected
Toluene	0.13	0.64	0.50	2.4
trans-1,3-Dichloropropene	0.13	Not Detected	0.60	Not Detected
1,1,2-Trichloroethane	0.13	Not Detected	0.72	Not Detected
Tetrachloroethene	0.13	Not Detected	0.90	Not Detected
2-Hexanone	0.66	Not Detected	2.7	Not Detected



Client Sample ID: CS3 : A121124

Lab ID#: 2412598B-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010321	Date of Collection:	12/11/24 3:20:00 PM
Dil. Factor:	1.33	Date of Analysis:	1/3/25 10:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.13	Not Detected	1.1	Not Detected
1,2-Dibromoethane (EDB)	0.13	Not Detected	1.0	Not Detected
Chlorobenzene	0.13	Not Detected	0.61	Not Detected
Ethyl Benzene	0.13	Not Detected	0.58	Not Detected
m,p-Xylene	0.13	0.33	0.58	1.4
o-Xylene	0.13	0.15	0.58	0.65
Styrene	0.13	Not Detected	0.57	Not Detected
Bromoform	0.13	Not Detected	1.4	Not Detected
Cumene	0.13	Not Detected	0.65	Not Detected
1,1,2,2-Tetrachloroethane	0.13	Not Detected UJ	0.91	Not Detected UJ
Propylbenzene	0.13	Not Detected	0.65	Not Detected
4-Ethyltoluene	0.13	0.13 J	0.65	0.63 J
1,3,5-Trimethylbenzene	0.13	Not Detected	0.65	Not Detected
1,2,4-Trimethylbenzene	0.13	0.13	0.65	0.66
1,3-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
1,4-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
alpha-Chlorotoluene	0.13	Not Detected	0.69	Not Detected
1,2-Dichlorobenzene	0.13	Not Detected	0.80	Not Detected
1,2,4-Trichlorobenzene	0.66	Not Detected	4.9	Not Detected
Hexachlorobutadiene	0.66	Not Detected	7.1	Not Detected

UJ = Analyte associated with low bias in the CCV.

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	91	70-130



Air Toxics

Client Sample ID: SS4 : A121124

Lab ID#: 2412598B-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010620	Date of Collection:	12/11/24 3:22:00 PM
Dil. Factor:	6.80	Date of Analysis:	1/6/25 09:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	3.4	Not Detected	17	Not Detected
Freon 114	3.4	Not Detected	24	Not Detected
Chloromethane	34	Not Detected	70	Not Detected
Vinyl Chloride	3.4	Not Detected	8.7	Not Detected
1,3-Butadiene	3.4	Not Detected	7.5	Not Detected
Bromomethane	34	Not Detected	130	Not Detected
Chloroethane	14	Not Detected	36	Not Detected
Freon 11	3.4	Not Detected	19	Not Detected
Ethanol	34	Not Detected	64	Not Detected
Freon 113	3.4	Not Detected	26	Not Detected
1,1-Dichloroethene	3.4	Not Detected	13	Not Detected
Acetone	34	Not Detected	81	Not Detected
2-Propanol	14	Not Detected	33	Not Detected
Carbon Disulfide	14	Not Detected	42	Not Detected
3-Chloropropene	14	Not Detected	42	Not Detected
Methylene Chloride	34	Not Detected	120	Not Detected
Methyl tert-butyl ether	14	Not Detected	49	Not Detected
trans-1,2-Dichloroethene	3.4	Not Detected	13	Not Detected
Hexane	3.4	Not Detected	12	Not Detected
1,1-Dichloroethane	3.4	Not Detected	14	Not Detected
2-Butanone (Methyl Ethyl Ketone)	14	Not Detected	40	Not Detected
cis-1,2-Dichloroethene	3.4	Not Detected	13	Not Detected
Tetrahydrofuran	3.4	Not Detected	10	Not Detected
Chloroform	3.4	4.6	17	22
1,1,1-Trichloroethane	3.4	Not Detected	18	Not Detected
Cyclohexane	3.4	Not Detected	12	Not Detected
Carbon Tetrachloride	3.4	Not Detected	21	Not Detected
2,2,4-Trimethylpentane	3.4	Not Detected	16	Not Detected
Benzene	3.4	Not Detected	11	Not Detected
1,2-Dichloroethane	3.4	Not Detected	14	Not Detected
Heptane	3.4	Not Detected	14	Not Detected
Trichloroethene	3.4	Not Detected	18	Not Detected
1,2-Dichloropropane	3.4	Not Detected	16	Not Detected
1,4-Dioxane	14	Not Detected	49	Not Detected
Bromodichloromethane	3.4	Not Detected	23	Not Detected
cis-1,3-Dichloropropene	3.4	Not Detected	15	Not Detected
4-Methyl-2-pentanone	3.4	Not Detected	14	Not Detected
Toluene	6.8	Not Detected	26	Not Detected
trans-1,3-Dichloropropene	3.4	Not Detected	15	Not Detected
1,1,2-Trichloroethane	3.4	Not Detected	18	Not Detected
Tetrachloroethene	3.4	890	23	6000
2-Hexanone	14	Not Detected	56	Not Detected



Air Toxics

Client Sample ID: SS4 : A121124

Lab ID#: 2412598B-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010620	Date of Collection: 12/11/24 3:22:00 PM
Dil. Factor:	6.80	Date of Analysis: 1/6/25 09:11 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	3.4	Not Detected	29	Not Detected
1,2-Dibromoethane (EDB)	3.4	Not Detected	26	Not Detected
Chlorobenzene	3.4	Not Detected	16	Not Detected
Ethyl Benzene	3.4	Not Detected	15	Not Detected
m,p-Xylene	6.8	Not Detected	30	Not Detected
o-Xylene	3.4	Not Detected	15	Not Detected
Styrene	3.4	Not Detected	14	Not Detected
Bromoform	3.4	Not Detected	35	Not Detected
Cumene	3.4	Not Detected	17	Not Detected
1,1,2,2-Tetrachloroethane	3.4	Not Detected	23	Not Detected
Propylbenzene	3.4	Not Detected	17	Not Detected
4-Ethyltoluene	3.4	Not Detected	17	Not Detected
1,3,5-Trimethylbenzene	3.4	Not Detected	17	Not Detected
1,2,4-Trimethylbenzene	3.4	Not Detected	17	Not Detected
1,3-Dichlorobenzene	3.4	Not Detected	20	Not Detected
1,4-Dichlorobenzene	3.4	Not Detected	20	Not Detected
alpha-Chlorotoluene	3.4	Not Detected	18	Not Detected
1,2-Dichlorobenzene	3.4	Not Detected	20	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected	100	Not Detected
Hexachlorobutadiene	14	Not Detected	140	Not Detected

Container Type: 6 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	105	70-130
4-Bromofluorobenzene	85	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2412598B-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010307	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/3/25 12:04 PM

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	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	2.0	Not Detected	3.8	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
2-Propanol	2.0	Not Detected	4.9	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.50	Not Detected	1.7	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2412598B-09A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010307	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/3/25 12:04 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected UJ	0.69	Not Detected UJ
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	92	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2412598B-09B

EPA METHOD TO-15 GC/MS

File Name:	14010606	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	1/6/25 10:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	25	Not Detected	47	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	25	Not Detected	61	Not Detected
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	20	Not Detected	82	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2412598B-09B

EPA METHOD TO-15 GC/MS

File Name:	14010606	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 10:00 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	102	70-130



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2412598B-09C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010607	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 12:13 PM

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



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 2412598B-09C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010607	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 12:13 PM

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	105	70-130
4-Bromofluorobenzene	87	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 2412598B-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/3/25 09:10 AM

Compound	%Recovery
Freon 12	77
Freon 114	75
Chloromethane	77
Vinyl Chloride	75
1,3-Butadiene	76
Bromomethane	92
Chloroethane	78
Freon 11	76
Ethanol	79
Freon 113	76
1,1-Dichloroethene	87
Acetone	75
2-Propanol	78
Carbon Disulfide	87
3-Chloropropene	88
Methylene Chloride	77
Methyl tert-butyl ether	87
trans-1,2-Dichloroethene	85
Hexane	87
1,1-Dichloroethane	78
2-Butanone (Methyl Ethyl Ketone)	87
cis-1,2-Dichloroethene	83
Tetrahydrofuran	78
Chloroform	75
1,1,1-Trichloroethane	77
Cyclohexane	87
Carbon Tetrachloride	82
2,2,4-Trimethylpentane	81
Benzene	81
1,2-Dichloroethane	74
Heptane	86
Trichloroethene	82
1,2-Dichloropropane	78
1,4-Dioxane	88
Bromodichloromethane	73
cis-1,3-Dichloropropene	86
4-Methyl-2-pentanone	82
Toluene	83
trans-1,3-Dichloropropene	80
1,1,2-Trichloroethane	72
Tetrachloroethene	75
2-Hexanone	75



Air Toxics

Client Sample ID: CCV

Lab ID#: 2412598B-10A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010303	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/3/25 09:10 AM

Compound	%Recovery
Dibromochloromethane	75
1,2-Dibromoethane (EDB)	77
Chlorobenzene	74
Ethyl Benzene	88
m,p-Xylene	86
o-Xylene	84
Styrene	86
Bromoform	75
Cumene	86
1,1,2,2-Tetrachloroethane	67 Q
Propylbenzene	82
4-Ethyltoluene	88
1,3,5-Trimethylbenzene	90
1,2,4-Trimethylbenzene	88
1,3-Dichlorobenzene	78
1,4-Dichlorobenzene	77
alpha-Chlorotoluene	72
1,2-Dichlorobenzene	76
1,2,4-Trichlorobenzene	73
Hexachlorobutadiene	75

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	107	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 2412598B-10B

EPA METHOD TO-15 GC/MS

File Name:	14010603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 08:46 AM

Compound	%Recovery
Freon 12	79
Freon 114	93
Chloromethane	117
Vinyl Chloride	95
1,3-Butadiene	108
Bromomethane	93
Chloroethane	97
Freon 11	84
Ethanol	95
Freon 113	98
1,1-Dichloroethene	95
Acetone	115
2-Propanol	89
Carbon Disulfide	88
3-Chloropropene	85
Methylene Chloride	106
Methyl tert-butyl ether	82
trans-1,2-Dichloroethene	86
Hexane	103
1,1-Dichloroethane	94
2-Butanone (Methyl Ethyl Ketone)	85
cis-1,2-Dichloroethene	86
Tetrahydrofuran	98
Chloroform	84
1,1,1-Trichloroethane	77
Cyclohexane	86
Carbon Tetrachloride	85
2,2,4-Trimethylpentane	105
Benzene	93
1,2-Dichloroethane	91
Heptane	84
Trichloroethene	92
1,2-Dichloropropane	101
1,4-Dioxane	93
Bromodichloromethane	84
cis-1,3-Dichloropropene	82
4-Methyl-2-pentanone	79
Toluene	94
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	91
Tetrachloroethene	104
2-Hexanone	103

Client Sample ID: CCV

Lab ID#: 2412598B-10B

EPA METHOD TO-15 GC/MS

File Name:	14010603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 08:46 AM

Compound	%Recovery
Dibromochloromethane	96
1,2-Dibromoethane (EDB)	92
Chlorobenzene	99
Ethyl Benzene	94
m,p-Xylene	94
o-Xylene	97
Styrene	97
Bromoform	102
Cumene	95
1,1,2,2-Tetrachloroethane	96
Propylbenzene	96
4-Ethyltoluene	97
1,3,5-Trimethylbenzene	94
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	81
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	96
Hexachlorobutadiene	94

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	83	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	108	70-130



Air Toxics

Client Sample ID: CCV

Lab ID#: 2412598B-10C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 10:20 AM

Compound	%Recovery
Freon 12	100
Freon 114	96
Chloromethane	116
Vinyl Chloride	100
1,3-Butadiene	97
Bromomethane	98
Chloroethane	98
Freon 11	99
Ethanol	70
Freon 113	96
1,1-Dichloroethene	97
Acetone	92
2-Propanol	72
Carbon Disulfide	96
3-Chloropropene	88
Methylene Chloride	97
Methyl tert-butyl ether	88
trans-1,2-Dichloroethene	102
Hexane	96
1,1-Dichloroethane	110
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	98
Tetrahydrofuran	93
Chloroform	97
1,1,1-Trichloroethane	98
Cyclohexane	96
Carbon Tetrachloride	97
2,2,4-Trimethylpentane	97
Benzene	112
1,2-Dichloroethane	106
Heptane	106
Trichloroethene	103
1,2-Dichloropropane	107
1,4-Dioxane	99
Bromodichloromethane	104
cis-1,3-Dichloropropene	100
4-Methyl-2-pentanone	100
Toluene	110
trans-1,3-Dichloropropene	97
1,1,2-Trichloroethane	109
Tetrachloroethene	100
2-Hexanone	102



Air Toxics

Client Sample ID: CCV

Lab ID#: 2412598B-10C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010603	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 10:20 AM

Compound	%Recovery
Dibromochloromethane	109
1,2-Dibromoethane (EDB)	104
Chlorobenzene	107
Ethyl Benzene	107
m,p-Xylene	112
o-Xylene	101
Styrene	113
Bromoform	103
Cumene	105
1,1,2,2-Tetrachloroethane	106
Propylbenzene	112
4-Ethyltoluene	121
1,3,5-Trimethylbenzene	115
1,2,4-Trimethylbenzene	114
1,3-Dichlorobenzene	114
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	107
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	77
Hexachlorobutadiene	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	108	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 2412598B-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/3/25 09:57 AM

Compound	%Recovery	Method Limits
Freon 12	87	70-130
Freon 114	84	70-130
Chloromethane	88	70-130
Vinyl Chloride	88	70-130
1,3-Butadiene	89	70-130
Bromomethane	96	70-130
Chloroethane	89	70-130
Freon 11	85	70-130
Ethanol	90	70-130
Freon 113	81	70-130
1,1-Dichloroethene	91	70-130
Acetone	79	70-130
2-Propanol	99	70-130
Carbon Disulfide	92	70-130
3-Chloropropene	99	70-130
Methylene Chloride	79	70-130
Methyl tert-butyl ether	95	70-130
trans-1,2-Dichloroethene	93	70-130
Hexane	94	70-130
1,1-Dichloroethane	83	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	92	70-130
Tetrahydrofuran	88	70-130
Chloroform	79	70-130
1,1,1-Trichloroethane	85	70-130
Cyclohexane	96	70-130
Carbon Tetrachloride	89	70-130
2,2,4-Trimethylpentane	90	70-130
Benzene	84	70-130
1,2-Dichloroethane	78	70-130
Heptane	92	70-130
Trichloroethene	84	70-130
1,2-Dichloropropane	81	70-130
1,4-Dioxane	91	70-130
Bromodichloromethane	77	70-130
cis-1,3-Dichloropropene	93	70-130
4-Methyl-2-pentanone	82	70-130
Toluene	85	70-130
trans-1,3-Dichloropropene	90	70-130
1,1,2-Trichloroethane	78	70-130
Tetrachloroethene	79	70-130
2-Hexanone	77	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 2412598B-11A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010304	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/3/25 09:57 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	80	70-130
1,2-Dibromoethane (EDB)	81	70-130
Chlorobenzene	82	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	91	70-130
o-Xylene	93	70-130
Styrene	92	70-130
Bromoform	80	70-130
Cumene	91	70-130
1,1,2,2-Tetrachloroethane	70	70-130
Propylbenzene	87	70-130
4-Ethyltoluene	94	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	82	70-130
1,4-Dichlorobenzene	84	70-130
alpha-Chlorotoluene	78	70-130
1,2-Dichlorobenzene	81	70-130
1,2,4-Trichlorobenzene	90	70-130
Hexachlorobutadiene	89	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2412598B-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010305	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/3/25 10:37 AM

Compound	%Recovery	Method Limits
Freon 12	86	70-130
Freon 114	83	70-130
Chloromethane	87	70-130
Vinyl Chloride	88	70-130
1,3-Butadiene	91	70-130
Bromomethane	96	70-130
Chloroethane	89	70-130
Freon 11	85	70-130
Ethanol	91	70-130
Freon 113	80	70-130
1,1-Dichloroethene	90	70-130
Acetone	80	70-130
2-Propanol	101	70-130
Carbon Disulfide	92	70-130
3-Chloropropene	98	70-130
Methylene Chloride	80	70-130
Methyl tert-butyl ether	96	70-130
trans-1,2-Dichloroethene	91	70-130
Hexane	96	70-130
1,1-Dichloroethane	85	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
cis-1,2-Dichloroethene	91	70-130
Tetrahydrofuran	87	70-130
Chloroform	79	70-130
1,1,1-Trichloroethane	85	70-130
Cyclohexane	95	70-130
Carbon Tetrachloride	90	70-130
2,2,4-Trimethylpentane	90	70-130
Benzene	82	70-130
1,2-Dichloroethane	76	70-130
Heptane	89	70-130
Trichloroethene	82	70-130
1,2-Dichloropropane	80	70-130
1,4-Dioxane	88	70-130
Bromodichloromethane	74	70-130
cis-1,3-Dichloropropene	92	70-130
4-Methyl-2-pentanone	81	70-130
Toluene	84	70-130
trans-1,3-Dichloropropene	87	70-130
1,1,2-Trichloroethane	75	70-130
Tetrachloroethene	77	70-130
2-Hexanone	75	70-130

Client Sample ID: LCSD

Lab ID#: 2412598B-11AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	v010305	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/3/25 10:37 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	76	70-130
1,2-Dibromoethane (EDB)	79	70-130
Chlorobenzene	81	70-130
Ethyl Benzene	92	70-130
m,p-Xylene	91	70-130
o-Xylene	91	70-130
Styrene	91	70-130
Bromoform	78	70-130
Cumene	92	70-130
1,1,2,2-Tetrachloroethane	68 Q	70-130
Propylbenzene	87	70-130
4-Ethyltoluene	92	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	81	70-130
1,4-Dichlorobenzene	82	70-130
alpha-Chlorotoluene	76	70-130
1,2-Dichlorobenzene	78	70-130
1,2,4-Trichlorobenzene	88	70-130
Hexachlorobutadiene	85	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 2412598B-11B

EPA METHOD TO-15 GC/MS

File Name:	14010604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 09:08 AM

Compound	%Recovery	Method Limits
Freon 12	80	70-130
Freon 114	92	70-130
Chloromethane	115	70-130
Vinyl Chloride	98	70-130
1,3-Butadiene	110	70-130
Bromomethane	96	70-130
Chloroethane	95	70-130
Freon 11	86	70-130
Ethanol	118	70-130
Freon 113	95	70-130
1,1-Dichloroethene	91	70-130
Acetone	114	70-130
2-Propanol	112	70-130
Carbon Disulfide	88	70-130
3-Chloropropene	85	70-130
Methylene Chloride	104	70-130
Methyl tert-butyl ether	81	70-130
trans-1,2-Dichloroethene	85	70-130
Hexane	100	70-130
1,1-Dichloroethane	93	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
cis-1,2-Dichloroethene	86	70-130
Tetrahydrofuran	101	70-130
Chloroform	81	70-130
1,1,1-Trichloroethane	76	70-130
Cyclohexane	86	70-130
Carbon Tetrachloride	83	70-130
2,2,4-Trimethylpentane	104	70-130
Benzene	94	70-130
1,2-Dichloroethane	90	70-130
Heptane	81	70-130
Trichloroethene	91	70-130
1,2-Dichloropropane	99	70-130
1,4-Dioxane	106	70-130
Bromodichloromethane	80	70-130
cis-1,3-Dichloropropene	82	70-130
4-Methyl-2-pentanone	86	70-130
Toluene	90	70-130
trans-1,3-Dichloropropene	82	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	102	70-130
2-Hexanone	126	70-130

Client Sample ID: LCS

Lab ID#: 2412598B-11B

EPA METHOD TO-15 GC/MS

File Name:	14010604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 09:08 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	93	70-130
1,2-Dibromoethane (EDB)	90	70-130
Chlorobenzene	96	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	93	70-130
o-Xylene	95	70-130
Styrene	94	70-130
Bromoform	98	70-130
Cumene	91	70-130
1,1,2,2-Tetrachloroethane	92	70-130
Propylbenzene	92	70-130
4-Ethyltoluene	95	70-130
1,3,5-Trimethylbenzene	93	70-130
1,2,4-Trimethylbenzene	97	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	104	70-130
alpha-Chlorotoluene	78	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	114	70-130
Hexachlorobutadiene	105	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	83	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	104	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2412598B-11BB

EPA METHOD TO-15 GC/MS

File Name:	14010605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 09:35 AM

Compound	%Recovery	Method Limits
Freon 12	80	70-130
Freon 114	94	70-130
Chloromethane	119	70-130
Vinyl Chloride	98	70-130
1,3-Butadiene	105	70-130
Bromomethane	94	70-130
Chloroethane	96	70-130
Freon 11	87	70-130
Ethanol	126	70-130
Freon 113	97	70-130
1,1-Dichloroethene	90	70-130
Acetone	114	70-130
2-Propanol	116	70-130
Carbon Disulfide	88	70-130
3-Chloropropene	85	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	82	70-130
trans-1,2-Dichloroethene	86	70-130
Hexane	100	70-130
1,1-Dichloroethane	96	70-130
2-Butanone (Methyl Ethyl Ketone)	90	70-130
cis-1,2-Dichloroethene	88	70-130
Tetrahydrofuran	103	70-130
Chloroform	82	70-130
1,1,1-Trichloroethane	78	70-130
Cyclohexane	88	70-130
Carbon Tetrachloride	83	70-130
2,2,4-Trimethylpentane	106	70-130
Benzene	95	70-130
1,2-Dichloroethane	90	70-130
Heptane	83	70-130
Trichloroethene	93	70-130
1,2-Dichloropropane	100	70-130
1,4-Dioxane	108	70-130
Bromodichloromethane	84	70-130
cis-1,3-Dichloropropene	83	70-130
4-Methyl-2-pentanone	88	70-130
Toluene	92	70-130
trans-1,3-Dichloropropene	82	70-130
1,1,2-Trichloroethane	91	70-130
Tetrachloroethene	103	70-130
2-Hexanone	130	70-130

Client Sample ID: LCSD

Lab ID#: 2412598B-11BB

EPA METHOD TO-15 GC/MS

File Name:	14010605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 09:35 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	93	70-130
1,2-Dibromoethane (EDB)	89	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	93	70-130
m,p-Xylene	93	70-130
o-Xylene	94	70-130
Styrene	96	70-130
Bromoform	100	70-130
Cumene	93	70-130
1,1,2,2-Tetrachloroethane	94	70-130
Propylbenzene	92	70-130
4-Ethyltoluene	96	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	105	70-130
alpha-Chlorotoluene	82	70-130
1,2-Dichlorobenzene	105	70-130
1,2,4-Trichlorobenzene	115	70-130
Hexachlorobutadiene	105	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	106	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 2412598B-11C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 10:48 AM

Compound	%Recovery	Method Limits
Freon 12	97	70-130
Freon 114	93	70-130
Chloromethane	110	70-130
Vinyl Chloride	93	70-130
1,3-Butadiene	92	70-130
Bromomethane	93	70-130
Chloroethane	92	70-130
Freon 11	94	70-130
Ethanol	55 Q	70-130
Freon 113	89	70-130
1,1-Dichloroethene	88	70-130
Acetone	84	70-130
2-Propanol	65 Q	70-130
Carbon Disulfide	90	70-130
3-Chloropropene	83	70-130
Methylene Chloride	90	70-130
Methyl tert-butyl ether	84	70-130
trans-1,2-Dichloroethene	97	70-130
Hexane	96	70-130
1,1-Dichloroethane	106	70-130
2-Butanone (Methyl Ethyl Ketone)	93	70-130
cis-1,2-Dichloroethene	96	70-130
Tetrahydrofuran	91	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	95	70-130
Cyclohexane	97	70-130
Carbon Tetrachloride	93	70-130
2,2,4-Trimethylpentane	95	70-130
Benzene	112	70-130
1,2-Dichloroethane	102	70-130
Heptane	102	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	106	70-130
1,4-Dioxane	77	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	94	70-130
Toluene	105	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	108	70-130
Tetrachloroethene	98	70-130
2-Hexanone	92	70-130



Air Toxics

Client Sample ID: LCS

Lab ID#: 2412598B-11C

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010604	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 10:48 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	105	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	109	70-130
o-Xylene	99	70-130
Styrene	110	70-130
Bromoform	94	70-130
Cumene	101	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Propylbenzene	106	70-130
4-Ethyltoluene	113	70-130
1,3,5-Trimethylbenzene	109	70-130
1,2,4-Trimethylbenzene	110	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	97	70-130
1,2-Dichlorobenzene	102	70-130
1,2,4-Trichlorobenzene	106	70-130
Hexachlorobutadiene	100	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	105	70-130
1,2-Dichloroethane-d4	98	70-130
4-Bromofluorobenzene	94	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2412598B-11CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 11:15 AM

Compound	%Recovery	Method Limits
Freon 12	99	70-130
Freon 114	94	70-130
Chloromethane	111	70-130
Vinyl Chloride	96	70-130
1,3-Butadiene	94	70-130
Bromomethane	95	70-130
Chloroethane	95	70-130
Freon 11	95	70-130
Ethanol	59 Q	70-130
Freon 113	90	70-130
1,1-Dichloroethene	90	70-130
Acetone	86	70-130
2-Propanol	70	70-130
Carbon Disulfide	90	70-130
3-Chloropropene	87	70-130
Methylene Chloride	92	70-130
Methyl tert-butyl ether	86	70-130
trans-1,2-Dichloroethene	99	70-130
Hexane	98	70-130
1,1-Dichloroethane	109	70-130
2-Butanone (Methyl Ethyl Ketone)	97	70-130
cis-1,2-Dichloroethene	98	70-130
Tetrahydrofuran	94	70-130
Chloroform	96	70-130
1,1,1-Trichloroethane	98	70-130
Cyclohexane	99	70-130
Carbon Tetrachloride	94	70-130
2,2,4-Trimethylpentane	98	70-130
Benzene	108	70-130
1,2-Dichloroethane	97	70-130
Heptane	99	70-130
Trichloroethene	96	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	76	70-130
Bromodichloromethane	101	70-130
cis-1,3-Dichloropropene	96	70-130
4-Methyl-2-pentanone	92	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	97	70-130
2-Hexanone	93	70-130



Air Toxics

Client Sample ID: LCSD

Lab ID#: 2412598B-11CC

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	60010605	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 1/6/25 11:15 AM

Compound	%Recovery	Method Limits
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	101	70-130
Chlorobenzene	106	70-130
Ethyl Benzene	108	70-130
m,p-Xylene	109	70-130
o-Xylene	101	70-130
Styrene	110	70-130
Bromoform	94	70-130
Cumene	101	70-130
1,1,1,2-Tetrachloroethane	100	70-130
Propylbenzene	105	70-130
4-Ethyltoluene	113	70-130
1,3,5-Trimethylbenzene	108	70-130
1,2,4-Trimethylbenzene	108	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	101	70-130
alpha-Chlorotoluene	97	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	108	70-130
Hexachlorobutadiene	100	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	96	70-130

Method : TO-15-LL

CAS Number	Compound	Rpt. Limit (ppbv)
75-71-8	Freon 12	0.50
76-14-2	Freon 114	0.10
74-87-3	Chloromethane	0.50
75-01-4	Vinyl Chloride	0.10
106-99-0	1,3-Butadiene	0.10
74-83-9	Bromomethane	5.0
75-00-3	Chloroethane	0.50
75-69-4	Freon 11	0.10
64-17-5	Ethanol	2.0
76-13-1	Freon 113	0.10
75-35-4	1,1-Dichloroethene	0.10
67-64-1	Acetone	2.0
67-63-0	2-Propanol	2.0
75-15-0	Carbon Disulfide	0.50
107-05-1	3-Chloropropene	0.50
75-09-2	Methylene Chloride	0.20
1634-04-4	Methyl tert-butyl ether	0.10
156-60-5	trans-1,2-Dichloroethene	0.10
110-54-3	Hexane	0.50
75-34-3	1,1-Dichloroethane	0.10
78-93-3	2-Butanone (Methyl Ethyl Ketone)	0.50
156-59-2	cis-1,2-Dichloroethene	0.10
109-99-9	Tetrahydrofuran	0.50
67-66-3	Chloroform	0.10
71-55-6	1,1,1-Trichloroethane	0.10
110-82-7	Cyclohexane	0.50
56-23-5	Carbon Tetrachloride	0.10
540-84-1	2,2,4-Trimethylpentane	0.50
71-43-2	Benzene	0.10
107-06-2	1,2-Dichloroethane	0.10
142-82-5	Heptane	0.50
79-01-6	Trichloroethene	0.10
78-87-5	1,2-Dichloropropane	0.10
123-91-1	1,4-Dioxane	0.10
75-27-4	Bromodichloromethane	0.10
10061-01-5	cis-1,3-Dichloropropene	0.10
108-10-1	4-Methyl-2-pentanone	0.10
108-88-3	Toluene	0.10
10061-02-6	trans-1,3-Dichloropropene	0.10
79-00-5	1,1,2-Trichloroethane	0.10
127-18-4	Tetrachloroethene	0.10
591-78-6	2-Hexanone	0.50
124-48-1	Dibromochloromethane	0.10
106-93-4	1,2-Dibromoethane (EDB)	0.10

Method : TO-15-LL

CAS Number	Compound	Rpt. Limit (ppbv)
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
75-25-2	Bromoform	0.10
98-82-8	Cumene	0.10
79-34-5	1,1,2,2-Tetrachloroethane	0.10
103-65-1	Propylbenzene	0.10
622-96-8	4-Ethyltoluene	0.10
108-67-8	1,3,5-Trimethylbenzene	0.10
95-63-6	1,2,4-Trimethylbenzene	0.10
541-73-1	1,3-Dichlorobenzene	0.10
106-46-7	1,4-Dichlorobenzene	0.10
100-44-7	alpha-Chlorotoluene	0.10
95-50-1	1,2-Dichlorobenzene	0.10
120-82-1	1,2,4-Trichlorobenzene	0.50
87-68-3	Hexachlorobutadiene	0.50

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