DOF DALTON OLMSTED FUGLEVAND

To: Andrew Smith and Kaia Peterson, Washington Department of Ecology (Ecology)

From: Patrick Hsieh, Tasya Gray, Dalton, Olmsted, and Fuglevand (DOF)

CC: Greg Fink, Katey Potter, Stericycle

Date: April 10, 2020

Subject: New Office Building Construction – Air Sampling, Stericycle Tacoma Facility

Dalton, Olmsted, and Fuglevand (DOF), prepared this technical memorandum on behalf of Stericycle Environmental Solutions (Stericycle) to describe the second crawlspace air sampling event under the new pre-fabricated office/laboratory building at their Tacoma facility (the modular building). The modular building was constructed in the center of the facility as shown on the attached Figure G1-2P.

Stericycle provided an air sampling plan in DOF's November 15, 2018 technical memorandum that included two rounds of air sampling (one before occupation of the modular building and another in the winter) in the crawlspace between the foundation slab and the modular building floor. The first air sampling event occurred on July 25, 2019. The second event was conducted this past winter in January 2020. Results of the first round of sampling were reported in a technical memorandum prepared by DOF on behalf of Stericycle, submitted to Ecology on August 19, 2019 (DOF, 2019).

Air Sampling Methods

The second round of air sampling was conducted on January 20, 2020. Four 6-liter selective ion monitoring (SIM) certified Summa canisters and 8-hour SIM certified flow regulators were provided by Eurofins Air Toxics laboratory for use in sample collection. Two air sampling locations were identified under the building, one in the northeast corner and one in the southwest corner (Figure G1-2P). An additional ambient air sampling location was identified along the eastern property line, adjacent to the eastern fence line, due to the prevailing winds coming from the east (Figure G1-2P).

The Summa canisters were placed under the building in the same locations used for the previous sampling event. Sample MODBLD-NE-20200120 was placed under the modular building 19 feet from the northern wall and 11 feet from the eastern wall. The modular building sewer line protrusion in the concrete slab was located 14 feet from the sample location. The Summa canisters for samples MODBLD-SW1-20200120 and MODBLD-SW2-20200120 (DUPLICATE) were placed under the modular building 16 feet from the southern wall and 17 feet from the western wall. The modular building water line protrusion in the concrete slab was located 23 feet from the sample location. The summa canisters were connected using a laboratory supplied stainless steel tee designed for duplicate sample collection. The Summa canister for sample MODBLD-

AMB1-20200120 was placed upwind, as mentioned above, along the eastern property line. It was placed two feet west of the eastern fence and 23 feet south of the northern fence, bordering the gravel lot (Figure G1-2P). Prior to the start of sample collection the Summa canister identification numbers, flow controller identification numbers, and initial pressures were recorded. Sample collection began around 08:00 for all sample vessels.

Samples were checked after approximately 5.5 hours to observe collection rate and remaining vacuum in each vessel. Subsequently, samples were checked at 6.5 hours, 7.5 hours and 8 hours. These observations were necessary to ensure vacuums in the sample vessels did not drop below -5 inches mercury per analytical laboratory requirements.

All sample vessels were able to collect air for a minimum of 8 hours with the exception of the duplicate sample location in the southwest corner of the crawl space. It was necessary to stop the sample early due to vacuum in sample MODBLD-SW2-20200120 reaching close to -5 inches mercury prior to the full 8-hour period (approximately 7.5 hours after sample collection started). Both samplers were stopped at same time because the location is a field duplicate. All samples were collected in accordance with recommendations found in the Washington State Department of Ecology's Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action (revised April 2018) and recommendations and protocols in Appendix E (Naphthalene Soil Gas Collection) of the July 2015 California Active Soil Gas Investigations guidance document.

Following completion of sample collection, final sample vessel pressures were recorded and vessels were placed back in the shipping boxes and prepared for shipment back to the laboratory. Samples were dropped off to FedEx the same day. Standard chain-of-custody (COC) protocols were followed for shipment of the samples and the COC was filled out in accordance with the approved sample plan. Samples were analyzed for VOCs by United States Environmental Protection Agency (USEPA) Method TO-15 (including naphthalene) and Air Phase Hydrocarbons by EPA Method TO-15.

Air Sampling Results

Laboratory results and Washington State Department of Ecology Method C Indoor Air Cleanup Levels are summarized in Tables 1 and 2. Previous results were below Method C Indoor Air Cleanup levels with the exception of four compounds that were reported as not detected above the reporting limit, but had a reporting limit slightly above the Method C cleanup level, as summarized in the August 2019 memo (DOF, 2019). The laboratory issued a revised report with estimated results reported down to the method detection limits (Table 1). After reissuing the report all compounds were below the cleanup levels. Laboratory reports are provided in Attachment A.

Table 2 summarizes the laboratory results and cleanup levels from the second sampling event (January 2020) reported down to the method detection limits. Results were equal to or below Method C Indoor Air Cleanup levels with the exception of two compounds that were reported as not detected above the detection limit but had a detection limit slightly above the Method C cleanup level. Laboratory reports are provided in Attachment B.

References:

DOF (2019). DOF New Office Building Construction – Crawlspace Air Sampling, Stericycle Tacoma Facility

Attachments:

Figure G1-2P - Site Layout and Sample Locations
Table 1 - Sampling Results for July 25, 2019 Sampling Event
Table 2 - Sampling Results for January 20, 2020 Sampling Event
Attachment A – Laboratory Reports for July 25, 2019 Sampling Event
Attachment B – Laboratory Reports for January 20, 2020 Sampling Event

Prevailing Wind Direction

Air Sample MODBLD-AMB1-20200120

Air Sample MODBLD-NE-20200120

Duplicate Air Sample MODBLD-SW1-20200120 and MODBLD-SW1-20200120

Taylor Way

Alexander Ave.

MP-001

MP-002

MP-004

DITCH

INFILTRATION BASIN

Grass

Gravel

Grass with liner infiltrates/pond/evaporates

Parking/Storage Circulation Area (Gravel/Broken Pavement)

Asphalt Paving

Concrete Walk

KELLYBLOCK WALL

EXISTING TANK FARM CONTAINMENT AREA

EXISTING BUILDING

BOILER ROOM

COMPRESSOR ROOM

PROCESS AREA #2

OFFICE/LABORATORY BUILDING

SOUTH CONTAINER STORAGE BUILDING

Main Office

Modular Office Trailer Locations

LAB PACK BUILDING

STABILIZATION BUILDING

CHECK-IN AREA #3

CHECK-IN AREA #1

CHECK-IN AREA #2

PROCESS AREA #1

OFFICE/SHOP BUILDING TPN 0321352062

Rain Garden

LEGEND

ASPHALT PAVEMENT	SANITARY SEWER
CONCRETE	STORM DRAIN
GRAVEL	FIRE MAIN
GRASS	ROOF DRAIN
BUILDING	WATER MAIN
INDUSTRIAL WASTEWATER DISCHARGE POINT	CHAIN LINK FENCE
STORM DRAIN CATCH BASIN	PROPERTY LINE

0 100

Scale in Feet

Stericycle
Tacoma Washington

Site Plan

DALTON OLMSTED FUGLEVAND

FIGURE G1-2P

06/11/2019

PLOT TIME: 6/11/2019 2:47 PM MOD TIME: 6/11/2019 2:01 PM USER: Kelley Begley DWG: P:\Stericycle\Tacoma\Cadd\Figures\2019-05\SITE PLAN FIGURES\2019-05 Fig G1-2P - Site Plan.dwg

Table 1 Modular Building Air Sampling Results for July 25, 2019 Sampling Event
Stericycle Tacoma

	Sample Name				Indoor Air Cleanup Level	
Contaminant of Concern	**MOD BLD-NE**	**MOD BLD-SW1**	**MOD BLD-SW2**	**MOD BLD-AMB1**	**Method C Noncancer (µg/m³)**	**Method C Cancer (µg/m³)**
Volatile Organic Compounds (VOCs)						
1,3-Butadiene	0.090	0.089	0.078	0.091		0.83
Bromomethane	<0.42	<0.42	<0.42	<0.47	5	
Freon 11	1.5	1.4	1.4	1.6	700	
Ethanol	12	7.1	7.7	10		
Freon 113	0.60	0.48	0.51	0.46	5000	
Acetone	54	35	39	15		
2-Propanol	5.7	4.8	5.2	1.5		
Carbon Disulfide	<0.18	<0.18	<0.18	<0.20	700	
3-Chloropropene	<0.37	<0.37	<0.37	<0.41		
Methylene Chloride	9.4	3.7	3.9	0.73	600	
Hexane	1.6	1.1	1.2	1.5	700	
2-Butanone (Methyl Ethyl Ketone)	36	11	13	1.5	5000	
Tetrahydrofuran	13	2.3	2.4	<0.35		
Cyclohexane	0.45	0.35	0.35	0.56		
2,2,4-Trimethylpentane	1.8	1.3	1.4	0.60		
Heptane	1.6	1.2	1.3	1.0		
1,2-Dichloropropane	<0.047	<0.048	<0.047	<0.053		6.8
1,4-Dioxane	0.25	<0.13	0.30	0.54		
Bromodichloromethane	<0.083	<0.084	<0.083	<0.094		0.68
cis-1,3-Dichloropropene	<0.086	<0.087	<0.086	<0.097		
4-Methyl-2-pentanone	1.0	1.4	1.4	0.18		
trans-1,3-Dichloropropene	<0.12	<0.13	<0.12	<0.14		
2-Hexanone	<0.48	<0.49	<0.48	<0.54		
Dibromochloromethane	<0.11	<0.11	<0.11	<0.12		
Chlorobenzene	<0.054	<0.055	<0.054	<0.061	50	
Styrene	0.80	0.21	0.24	0.19	1000	
Bromoform	<0.14	<0.14	<0.14	<0.16		23
Cumene	<0.17	<0.17	<0.17	<0.19	400	
Propylbenzene	0.25	<0.20	0.21	<0.22		
4-Ethyltoluene	0.76	0.49	0.56	0.44		
1,3,5-Trimethylbenzene	0.29	0.18	0.23	<0.16		
1,2,4-Trimethylbenzene	0.64	0.36	0.43	0.45	60	
1,3-Dichlorobenzene	<0.22	<0.22	<0.22	<0.24		
alpha-Chlorotoluene	<0.17	<0.18	<0.17	<0.20		0.51
1,2-Dichlorobenzene	<0.21	<0.21	<0.21	<0.24	200	
1,2,4-Trichlorobenzene	<0.60	<0.62	<0.60	<0.68	2	
Hexachlorobutadiene	<0.96	<0.98	<0.96	**<1.1**		1.1
1,2-Dichloroethane-d4	106	106	105	107		
Toluene-d8	102	102	104	103		
4-Bromofluorobenzene	107	102	103	100		
Freon 12	2.3	2.3	2.3	2.4	100	
Freon 114	0.086	0.086	0.087	0.084		
Chloromethane	0.83	0.80	0.82	0.87	90	
Vinyl Chloride	<0.0057	<0.0058	<0.0057	<0.0065		2.8
Chloroethane	0.051	0.030	0.043	0.052	10000	
1,1-Dichloroethene	<0.013	<0.013	<0.013	<0.015	200	
trans-1,2-Dichloroethene	0.28	0.12	0.12	<0.011		
Methyl tert-butyl ether	0.026	0.017	0.018	<0.018		96
1,1-Dichloroethane	<0.0083	<0.0085	<0.0083	<0.0094		16
cis-1,2-Dichloroethene	<0.013	<0.014	<0.013	<0.015		
Chloroform	0.38	0.32	0.32	0.10		1.1
1,1,1-Trichloroethane	0.076	0.060	0.062	0.020	5000	
Carbon Tetrachloride	0.46	0.45	0.44	0.43		4.2
Benzene	0.79	0.69	0.68	1.6		3.2
1,2-Dichloroethane	0.097	0.080	0.079	0.070		0.96
Trichloroethene	0.059	0.057	0.067	0.049	2	
Toluene	27	18	18	4.1	5000	
1,1,2-Trichloroethane	<0.0040	<0.0041	<0.0040	<0.0046	0.2	
Tetrachloroethene	0.45	0.28	0.48	0.26	40	
1,2-Dibromoethane (EDB)	<0.0077	<0.0079	<0.0077	<0.0087		0.042
Ethyl Benzene	1.2	0.82	0.84	0.68	1000	
Total Xylenes	5.6	3.78	3.93	3.02	100	
m,p-Xylene	4.3	2.9	3.0	2.3		
o-Xylene	1.3	0.88	0.93	0.72		
1,1,2,2-Tetrachloroethane	<0.012	<0.012	<0.012	<0.013		
1,4-Dichlorobenzene	0.039	0.037	0.037	0.038		2.3
Naphthalene	0.14	0.090	0.097	0.14		0.74
1,2-Dichloroethane-d4	97	98	98	99		
Toluene-d8	103	105	104	105		
4-Bromofluorobenzene	114	110	111	106		
Aliphatic Hydrocarbons (APHs)						
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	<50	<51	<50	<57		
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	<64	<65	<64	<72		
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	<90	<92	<90	<100		
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	<110	<110	<110	<120		
>C8-C10 Aromatic Hydrocarbons	<76	<78	<76	<86		
>C10-C12 Aromatic Hydrocarbons	<85	<87	<85	<96		

Notes:
1) Bold indicates result above the Method C Indoor Air Cleanup Level

Table 2 Modular Building Air Sampling Results for January 20, 2020 Sampling Event
Stericycle Tacoma

	Sample Name				Indoor Air Cleanup Level	
Contaminant of Concern	**MOD BLD-NE**	**MOD BLD-SW1**	**MOD BLD-SW2**	**MOD BLD-AMB1**	**Method C Noncancer (µg/m³)**	**Method C Cancer (µg/m³)**
Volatile Organic Compounds (VOCs)						
1,3-Butadiene	0.3	0.39	0.40	0.32		0.83
Bromomethane	<0.54	<0.56	<0.55	<0.55	5	
Freon 11	2.5	3.0	3.0	2.3	700	
Ethanol	29	22	21	4.6		
Freon 113	0.47	0.48	0.47	0.49	5000	
Acetone	45	38	35	18		
2-Propanol	11	11	11	4.8		
Carbon Disulfide	0.73	0.59	0.59	1.9	700	
3-Chloropropene	<0.91	<0.95	<0.92	<0.93		
Methylene Chloride	4.0	3.7	3.4	2.2	600	
Hexane	25	30	22	18	700	
2-Butanone (Methyl Ethyl Ketone)	18	9.1	8.8	9.5	5000	
Tetrahydrofuran	1.4	1.9	1.8	6.2		
Cyclohexane	3.5	3.3	3.4	2.6		
2,2,4-Trimethylpentane	2.6	2.0	2.0	1.5		
Heptane	2.6	2.6	2.5	1.9		
1,2-Dichloropropane	<0.18	<0.18	<0.18	<0.18		6.8
1,4-Dioxane	<0.31	<0.32	<0.31	<0.31		
Bromodichloromethane	<0.39	<0.40	<0.39	<0.40		0.68
cis-1,3-Dichloropropene	<0.14	<0.15	<0.15	<0.15		
4-Methyl-2-pentanone	1.2	1.2	1.2	0.68		
trans-1,3-Dichloropropene	<0.17	<0.18	<0.18	<0.18		
2-Hexanone	<0.83	<0.86	<0.84	<0.84		
Dibromochloromethane	<0.41	<0.43	<0.42	<0.42		
Chlorobenzene	<0.19	<0.20	<0.19	<0.20	50	
Styrene	5.6	3.0	3.0	3.7	1000	
Bromoform	<0.39	<0.40	<0.39	<0.40		23
Cumene	<0.12	<0.13	<0.12	<0.12	400	
Propylbenzene	0.30	0.48	0.39	0.29		
4-Ethyltoluene	1.5	1.7	1.6	1.0		
1,3,5-Trimethylbenzene	0.56	0.71	0.74	0.34		
1,2,4-Trimethylbenzene	0.91	1.4	1.4	0.91	60	
1,3-Dichlorobenzene	<0.33	<0.34	<0.33	<0.34		
alpha-Chlorotoluene	<0.16	<0.17	<0.16	<0.17		0.51
1,2-Dichlorobenzene	<0.18	<0.18	<0.18	<0.18	200	
1,2,4-Trichlorobenzene	**<2.2**	**<2.2**	**<2.2**	**<2.2**	2	
Hexachlorobutadiene	**<2.9**	**<3.0**	**<2.9**	**<3.0**		1.1
1,2-Dichloroethane-d4	122	125	120	125		
Toluene-d8	103	107	104	103		
4-Bromofluorobenzene	89	92	93	92		
Freon 12	2.3	2.4	2.4	2.3	100	
Freon 114	0.10	0.10	0.11	0.11		
Chloromethane	1.2	1.2	1.1	1.0	90	
Vinyl Chloride	<0.031	<0.032	<0.032	<0.032		2.8
Chloroethane	0.034	<0.032	<0.032	<0.032	10000	
1,1-Dichloroethene	<0.051	<0.053	<0.051	<0.052	200	
trans-1,2-Dichloroethene	0.21	0.19	0.20	0.12		
Methyl tert-butyl ether	0.11	0.11	0.11	0.085		96
1,1-Dichloroethane	<0.043	<0.045	<0.044	<0.044		16
cis-1,2-Dichloroethene	<0.045	<0.046	<0.045	<0.045		
Chloroform	**1.1**	**1.1**	**1.1**	0.33		1.1
1,1,1-Trichloroethane	<0.052	<0.054	<0.053	<0.053	5000	
Carbon Tetrachloride	0.43	0.45	0.45	0.44		4.2
Benzene	1.8	2.0	2.0	1.4		3.2
1,2-Dichloroethane	0.19	0.23	0.20	0.17		0.96
Trichloroethene	<0.12	<0.12	<0.12	<0.18	2	
Toluene	13	14	14	6.1	5000	
1,1,2-Trichloroethane	<0.053	<0.055	<0.054	<0.054	0.2	
Tetrachloroethene	0.64	0.30	0.31	0.20	40	
1,2-Dibromoethane (EDB)	<0.039	<0.040	<0.039	<0.039		0.042
Ethyl Benzene	1.2	1.2	1.2	0.75	1000	
Total Xylenes	5.8	6.1	6.1	3.7	100	
m,p-Xylene	4.3	4.4	4.4	2.7		
o-Xylene	1.5	1.7	1.7	1.0		
1,1,2,2-Tetrachloroethane	<0.073	<0.075	<0.074	<0.074		
1,4-Dichlorobenzene	<0.11	<0.11	<0.11	<0.11		2.3
Naphthalene	<0.071	0.16	0.23	0.16		0.74
1,2-Dichloroethane-d4	120	120	120	119		
Toluene-d8	104	105	105	104		
4-Bromofluorobenzene	90	90	91	92		
Aliphatic Hydrocarbons (APHs)						
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	<50	<51	<50	<57		
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	<64	<65	<64	<72		
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	<90	<92	<90	<100		
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	<110	<110	<110	<120		
>C8-C10 Aromatic Hydrocarbons	<76	<78	<76	<86		
>C10-C12 Aromatic Hydrocarbons	<85	<87	<85	<96		

Notes:
1) Bold indicates result above the Method C Indoor Air Cleanup Level

eurofins | Air Toxics

2/25/2020
Mr. Duane Beery
Stericycle Environmental Solutions, Inc.
18000 72nd Ave. S
Suite 217
Kent WA 98032

Project Name: Tacoma Mod Building
Project #:
Workorder #: 1907637AR1

Dear Mr. Duane Beery

The following report includes the data for the above referenced project for sample(s) received on 7/29/2019 at Air Toxics Ltd.

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 Inc. 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1907637AR1

Work Order Summary

CLIENT:	Mr. Duane Beery Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032	**BILL TO:**	Mr. Duane Beery Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032
PHONE:	425-227-6128	**P.O. #**	
FAX:		**PROJECT #**	Tacoma Mod Building
DATE RECEIVED:	07/29/2019	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	08/05/2019		
DATE REISSUED:	02/25/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	MOD BLD-NE-20190725	Modified TO-15	4.0 "Hg	5 psi
01B	MOD BLD-NE-20190725	Modified TO-15	4.0 "Hg	5 psi
02A	MOD BLD-SW1-20190725	Modified TO-15	4.5 "Hg	5 psi
02B	MOD BLD-SW1-20190725	Modified TO-15	4.5 "Hg	5 psi
03A	MOD BLD-SW2-20190725	Modified TO-15	4.0 "Hg	5 psi
03B	MOD BLD-SW2-20190725	Modified TO-15	4.0 "Hg	5 psi
04A	MOD BLD-AMB1-20190725	Modified TO-15	7.0 "Hg	5 psi
04B	MOD BLD-AMB1-20190725	Modified TO-15	7.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15	NA	NA
05B	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
06B	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA
07B	LCS	Modified TO-15	NA	NA
07BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:  DATE: 02/24/20

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Stericycle Environmental Solutions, Inc.
Workorder# 1907637AR1

Four 6 Liter Summa Canister (SIM Certified) samples were received on July 29, 2019. 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.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

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

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=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 </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=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

There were no receiving discrepancies.

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 QC analyses have not been flagged.

Per client request, the workorder was reissued on 2/25/2020 to report estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

In addition, in this revision, the data is reported using a different format.

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

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

eurofins | Air Toxics

Client ID:	MOD BLD-NE-20190725		
Lab ID:	1907637AR1-01A	**Date/Time Analyzed:**	7/31/19 08:18 PM
Date/Time Collected:	7/25/19 02:54 PM	**Dilution Factor:**	1.55
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073116R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	0.60	2.3	5.8	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.22	0.38	0.76	0.64 J
1,2-Dichlorobenzene	95-50-1	0.21	0.46	0.93	Not Detected
1,2-Dichloropropane	78-87-5	0.047	0.36	0.72	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.14	0.38	0.76	0.29 J
1,3-Butadiene	106-99-0	0.071	0.17	0.34	0.090 J
1,3-Dichlorobenzene	541-73-1	0.22	0.46	0.93	Not Detected
1,4-Dioxane	123-91-1	0.13	0.28	0.56	0.25 J
2,2,4-Trimethylpentane	540-84-1	0.16	1.4	3.6	1.8 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.38	0.91	2.3	36
2-Hexanone	591-78-6	0.48	1.3	3.2	Not Detected
2-Propanol	67-63-0	0.38	0.76	1.9	5.7 J0
3-Chloropropene	107-05-1	0.37	0.97	2.4	Not Detected
4-Ethyltoluene	622-96-8	0.18	0.38	0.76	0.76 J
4-Methyl-2-pentanone	108-10-1	0.11	0.32	0.63	1.0
Acetone	67-64-1	0.24	0.74	3.7	54
alpha-Chlorotoluene	100-44-7	0.17	0.40	0.80	Not Detected
Bromodichloromethane	75-27-4	0.083	0.52	1.0	Not Detected
Bromoform	75-25-2	0.14	0.80	1.6	Not Detected
Bromomethane	74-83-9	0.42	1.2	3.0	Not Detected
Carbon Disulfide	75-15-0	0.18	0.96	2.4	Not Detected
Chlorobenzene	108-90-7	0.054	0.36	0.71	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.086	0.35	0.70	Not Detected
Cumene	98-82-8	0.17	0.38	0.76	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	MOD BLD-NE-20190725		
Lab ID:	1907637AR1-01A	**Date/Time Analyzed:**	7/31/19 08:18 PM
Date/Time Collected:	7/25/19 02:54 PM	**Dilution Factor:**	1.55
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073116R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.12	0.27	0.53	0.45 J
Dibromochloromethane	124-48-1	0.11	0.66	1.3	Not Detected
Ethanol	64-17-5	0.46	0.58	1.5	12
Freon 11	75-69-4	0.11	0.44	0.87	1.5
Freon 113	76-13-1	0.11	0.59	1.2	0.60 J
Heptane	142-82-5	0.13	0.32	3.2	1.6 J
Hexachlorobutadiene	87-68-3	0.96	3.3	8.3	Not Detected
Hexane	110-54-3	0.13	0.27	2.7	1.6 J
Methylene Chloride	75-09-2	0.18	0.27	1.1	9.4
Propylbenzene	103-65-1	0.19	0.38	0.76	0.25 J
Styrene	100-42-5	0.16	0.33	0.66	0.80
Tetrahydrofuran	109-99-9	0.31	0.91	2.3	13
trans-1,3-Dichloropropene	10061-02-6	0.12	0.35	0.70	Not Detected

J = Estimated value.
J0 = Estimated value due to bias in the CCV.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	106
4-Bromofluorobenzene	460-00-4	70-130	107
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

eurofins | Air Toxics

Client ID:	MOD BLD-NE-20190725		
Lab ID:	1907637AR1-01B	**Date/Time Analyzed:**	7/31/19 08:18 PM
Date/Time Collected:	7/25/19 02:54 PM	**Dilution Factor:**	1.55
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073116simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.010	0.068	0.17	0.076 J
1,1,2,2-Tetrachloroethane	79-34-5	0.012	0.085	0.21	Not Detected
1,1,2-Trichloroethane	79-00-5	0.0040	0.068	0.17	Not Detected
1,1-Dichloroethane	75-34-3	0.0083	0.050	0.12	Not Detected
1,1-Dichloroethene	75-35-4	0.013	0.049	0.061	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.0077	0.095	0.24	Not Detected
1,2-Dichloroethane	107-06-2	0.0036	0.050	0.12	0.097 J
1,4-Dichlorobenzene	106-46-7	0.020	0.074	0.19	0.039 J
Benzene	71-43-2	0.082	0.099	0.25	0.79
Carbon Tetrachloride	56-23-5	0.024	0.078	0.20	0.46
Chloroethane	75-00-3	0.0074	0.033	0.20	0.051 J
Chloroform	67-66-3	0.013	0.060	0.15	0.38
Chloromethane	74-87-3	0.10	0.26	1.6	0.83 J
cis-1,2-Dichloroethene	156-59-2	0.013	0.049	0.12	Not Detected
Ethyl Benzene	100-41-4	0.012	0.054	0.13	1.2
Freon 114	76-14-2	0.021	0.087	0.22	0.086 J
Freon 12	75-71-8	0.029	0.061	0.15	2.3
m,p-Xylene	108-38-3	0.018	0.054	0.27	4.3
Methyl tert-butyl ether	1634-04-4	0.016	0.045	0.56	0.026 J
Naphthalene	91-20-3	0.048	0.13	0.41	0.14 J
o-Xylene	95-47-6	0.018	0.054	0.13	1.3
Tetrachloroethene	127-18-4	0.0037	0.084	0.21	0.45
Toluene	108-88-3	0.026	0.047	0.29	27
trans-1,2-Dichloroethene	156-60-5	0.0099	0.049	0.61	0.28 J

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	MOD BLD-NE-20190725		
Lab ID:	1907637AR1-01B	**Date/Time Analyzed:**	7/31/19 08:18 PM
Date/Time Collected:	7/25/19 02:54 PM	**Dilution Factor:**	1.55
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073116simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.016	0.067	0.17	0.059 J
Vinyl Chloride	75-01-4	0.0057	0.032	0.040	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	97
4-Bromofluorobenzene	460-00-4	70-130	114
Toluene-d8	2037-26-5	70-130	103

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

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Client ID:	MOD BLD-SW1-20190725		
Lab ID:	1907637AR1-02A	**Date/Time Analyzed:**	7/31/19 10:07 PM
Date/Time Collected:	7/25/19 02:30 PM	**Dilution Factor:**	1.58
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073119R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	0.62	2.3	5.9	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.23	0.39	0.78	0.36 J
1,2-Dichlorobenzene	95-50-1	0.21	0.47	0.95	Not Detected
1,2-Dichloropropane	78-87-5	0.048	0.36	0.73	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.14	0.39	0.78	0.18 J
1,3-Butadiene	106-99-0	0.072	0.17	0.35	0.089 J
1,3-Dichlorobenzene	541-73-1	0.22	0.47	0.95	Not Detected
1,4-Dioxane	123-91-1	0.13	0.28	0.57	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.16	1.5	3.7	1.3 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.39	0.93	2.3	11
2-Hexanone	591-78-6	0.49	1.3	3.2	Not Detected
2-Propanol	67-63-0	0.38	0.78	1.9	4.8 J0
3-Chloropropene	107-05-1	0.37	0.99	2.5	Not Detected
4-Ethyltoluene	622-96-8	0.18	0.39	0.78	0.49 J
4-Methyl-2-pentanone	108-10-1	0.12	0.32	0.65	1.4
Acetone	67-64-1	0.24	0.75	3.8	35
alpha-Chlorotoluene	100-44-7	0.18	0.41	0.82	Not Detected
Bromodichloromethane	75-27-4	0.084	0.53	1.0	Not Detected
Bromoform	75-25-2	0.14	0.82	1.6	Not Detected
Bromomethane	74-83-9	0.42	1.2	3.1	Not Detected
Carbon Disulfide	75-15-0	0.18	0.98	2.5	Not Detected
Chlorobenzene	108-90-7	0.055	0.36	0.73	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.087	0.36	0.72	Not Detected
Cumene	98-82-8	0.17	0.39	0.78	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	MOD BLD-SW1-20190725		
Lab ID:	1907637AR1-02A	**Date/Time Analyzed:**	7/31/19 10:07 PM
Date/Time Collected:	7/25/19 02:30 PM	**Dilution Factor:**	1.58
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073119R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.12	0.27	0.54	0.35 J
Dibromochloromethane	124-48-1	0.11	0.67	1.3	Not Detected
Ethanol	64-17-5	0.46	0.60	1.5	7.1
Freon 11	75-69-4	0.12	0.44	0.89	1.4
Freon 113	76-13-1	0.11	0.60	1.2	0.48 J
Heptane	142-82-5	0.13	0.32	3.2	1.2 J
Hexachlorobutadiene	87-68-3	0.98	3.4	8.4	Not Detected
Hexane	110-54-3	0.13	0.28	2.8	1.1 J
Methylene Chloride	75-09-2	0.19	0.27	1.1	3.7
Propylbenzene	103-65-1	0.20	0.39	0.78	Not Detected
Styrene	100-42-5	0.16	0.34	0.67	0.21 J
Tetrahydrofuran	109-99-9	0.31	0.93	2.3	2.3
trans-1,3-Dichloropropene	10061-02-6	0.13	0.36	0.72	Not Detected

J = Estimated value.
J0 = Estimated value due to bias in the CCV.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	106
4-Bromofluorobenzene	460-00-4	70-130	102
Toluene-d8	2037-26-5	70-130	102

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

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Client ID:	MOD BLD-SW1-20190725		
Lab ID:	1907637AR1-02B	**Date/Time Analyzed:**	7/31/19 10:07 PM
Date/Time Collected:	7/25/19 02:30 PM	**Dilution Factor:**	1.58
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073119simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.010	0.069	0.17	0.060 J
1,1,2,2-Tetrachloroethane	79-34-5	0.012	0.087	0.22	Not Detected
1,1,2-Trichloroethane	79-00-5	0.0041	0.069	0.17	Not Detected
1,1-Dichloroethane	75-34-3	0.0085	0.051	0.13	Not Detected
1,1-Dichloroethene	75-35-4	0.013	0.050	0.063	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.0079	0.097	0.24	Not Detected
1,2-Dichloroethane	107-06-2	0.0037	0.051	0.13	0.080 J
1,4-Dichlorobenzene	106-46-7	0.020	0.076	0.19	0.037 J
Benzene	71-43-2	0.083	0.10	0.25	0.69
Carbon Tetrachloride	56-23-5	0.024	0.080	0.20	0.45
Chloroethane	75-00-3	0.0076	0.033	0.21	0.030 J
Chloroform	67-66-3	0.013	0.062	0.15	0.32
Chloromethane	74-87-3	0.11	0.26	1.6	0.80 J
cis-1,2-Dichloroethene	156-59-2	0.014	0.050	0.12	Not Detected
Ethyl Benzene	100-41-4	0.013	0.055	0.14	0.82
Freon 114	76-14-2	0.021	0.088	0.22	0.086 J
Freon 12	75-71-8	0.030	0.062	0.16	2.3
m,p-Xylene	108-38-3	0.018	0.055	0.27	2.9
Methyl tert-butyl ether	1634-04-4	0.016	0.046	0.57	0.017 J
Naphthalene	91-20-3	0.048	0.13	0.41	0.090 J
o-Xylene	95-47-6	0.018	0.055	0.14	0.88
Tetrachloroethene	127-18-4	0.0038	0.086	0.21	0.28
Toluene	108-88-3	0.026	0.048	0.30	18
trans-1,2-Dichloroethene	156-60-5	0.010	0.050	0.63	0.12 J

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	MOD BLD-SW1-20190725		
Lab ID:	1907637AR1-02B	**Date/Time Analyzed:**	7/31/19 10:07 PM
Date/Time Collected:	7/25/19 02:30 PM	**Dilution Factor:**	1.58
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073119simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.016	0.068	0.17	0.057 J
Vinyl Chloride	75-01-4	0.0058	0.032	0.040	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	110
Toluene-d8	2037-26-5	70-130	105

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

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Client ID:	MOD BLD-SW2-20190725		
Lab ID:	1907637AR1-03A	**Date/Time Analyzed:**	7/31/19 08:55 PM
Date/Time Collected:	7/25/19 02:30 PM	**Dilution Factor:**	1.55
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073117R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	0.60	2.3	5.8	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.22	0.38	0.76	0.43 J
1,2-Dichlorobenzene	95-50-1	0.21	0.46	0.93	Not Detected
1,2-Dichloropropane	78-87-5	0.047	0.36	0.72	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.14	0.38	0.76	0.23 J
1,3-Butadiene	106-99-0	0.071	0.17	0.34	0.078 J
1,3-Dichlorobenzene	541-73-1	0.22	0.46	0.93	Not Detected
1,4-Dioxane	123-91-1	0.13	0.28	0.56	0.30 J
2,2,4-Trimethylpentane	540-84-1	0.16	1.4	3.6	1.4 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.38	0.91	2.3	13
2-Hexanone	591-78-6	0.48	1.3	3.2	Not Detected
2-Propanol	67-63-0	0.38	0.76	1.9	5.2 J0
3-Chloropropene	107-05-1	0.37	0.97	2.4	Not Detected
4-Ethyltoluene	622-96-8	0.18	0.38	0.76	0.56 J
4-Methyl-2-pentanone	108-10-1	0.11	0.32	0.63	1.4
Acetone	67-64-1	0.24	0.74	3.7	39
alpha-Chlorotoluene	100-44-7	0.17	0.40	0.80	Not Detected
Bromodichloromethane	75-27-4	0.083	0.52	1.0	Not Detected
Bromoform	75-25-2	0.14	0.80	1.6	Not Detected
Bromomethane	74-83-9	0.42	1.2	3.0	Not Detected
Carbon Disulfide	75-15-0	0.18	0.96	2.4	Not Detected
Chlorobenzene	108-90-7	0.054	0.36	0.71	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.086	0.35	0.70	Not Detected
Cumene	98-82-8	0.17	0.38	0.76	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	MOD BLD-SW2-20190725		
Lab ID:	1907637AR1-03A	**Date/Time Analyzed:**	7/31/19 08:55 PM
Date/Time Collected:	7/25/19 02:30 PM	**Dilution Factor:**	1.55
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073117R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.12	0.27	0.53	0.35 J
Dibromochloromethane	124-48-1	0.11	0.66	1.3	Not Detected
Ethanol	64-17-5	0.46	0.58	1.5	7.7
Freon 11	75-69-4	0.11	0.44	0.87	1.4
Freon 113	76-13-1	0.11	0.59	1.2	0.51 J
Heptane	142-82-5	0.13	0.32	3.2	1.3 J
Hexachlorobutadiene	87-68-3	0.96	3.3	8.3	Not Detected
Hexane	110-54-3	0.13	0.27	2.7	1.2 J
Methylene Chloride	75-09-2	0.18	0.27	1.1	3.9
Propylbenzene	103-65-1	0.19	0.38	0.76	0.21 J
Styrene	100-42-5	0.16	0.33	0.66	0.24 J
Tetrahydrofuran	109-99-9	0.31	0.91	2.3	2.4
trans-1,3-Dichloropropene	10061-02-6	0.12	0.35	0.70	Not Detected

J = Estimated value.
J0 = Estimated value due to bias in the CCV.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	105
4-Bromofluorobenzene	460-00-4	70-130	103
Toluene-d8	2037-26-5	70-130	104

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

eurofins | Air Toxics

Client ID:	MOD BLD-SW2-20190725		
Lab ID:	1907637AR1-03B	**Date/Time Analyzed:**	7/31/19 08:55 PM
Date/Time Collected:	7/25/19 02:30 PM	**Dilution Factor:**	1.55
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073117simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.010	0.068	0.17	0.062 J
1,1,2,2-Tetrachloroethane	79-34-5	0.012	0.085	0.21	Not Detected
1,1,2-Trichloroethane	79-00-5	0.0040	0.068	0.17	Not Detected
1,1-Dichloroethane	75-34-3	0.0083	0.050	0.12	Not Detected
1,1-Dichloroethene	75-35-4	0.013	0.049	0.061	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.0077	0.095	0.24	Not Detected
1,2-Dichloroethane	107-06-2	0.0036	0.050	0.12	0.079 J
1,4-Dichlorobenzene	106-46-7	0.020	0.074	0.19	0.037 J
Benzene	71-43-2	0.082	0.099	0.25	0.68
Carbon Tetrachloride	56-23-5	0.024	0.078	0.20	0.44
Chloroethane	75-00-3	0.0074	0.033	0.20	0.043 J
Chloroform	67-66-3	0.013	0.060	0.15	0.32
Chloromethane	74-87-3	0.10	0.26	1.6	0.82 J
cis-1,2-Dichloroethene	156-59-2	0.013	0.049	0.12	Not Detected
Ethyl Benzene	100-41-4	0.012	0.054	0.13	0.84
Freon 114	76-14-2	0.021	0.087	0.22	0.087 J
Freon 12	75-71-8	0.029	0.061	0.15	2.3
m,p-Xylene	108-38-3	0.018	0.054	0.27	3.0
Methyl tert-butyl ether	1634-04-4	0.016	0.045	0.56	0.018 J
Naphthalene	91-20-3	0.048	0.13	0.41	0.097 J
o-Xylene	95-47-6	0.018	0.054	0.13	0.93
Tetrachloroethene	127-18-4	0.0037	0.084	0.21	0.48
Toluene	108-88-3	0.026	0.047	0.29	18
trans-1,2-Dichloroethene	156-60-5	0.0099	0.049	0.61	0.12 J

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	MOD BLD-SW2-20190725		
Lab ID:	1907637AR1-03B	**Date/Time Analyzed:**	7/31/19 08:55 PM
Date/Time Collected:	7/25/19 02:30 PM	**Dilution Factor:**	1.55
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073117simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.016	0.067	0.17	0.067 J
Vinyl Chloride	75-01-4	0.0057	0.032	0.040	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	98
4-Bromofluorobenzene	460-00-4	70-130	111
Toluene-d8	2037-26-5	70-130	104

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

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Client ID:	MOD BLD-AMB1-20190725		
Lab ID:	1907637AR1-04A	**Date/Time Analyzed:**	7/31/19 09:31 PM
Date/Time Collected:	7/25/19 03:08 PM	**Dilution Factor:**	1.75
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073118R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	0.68	2.6	6.5	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.25	0.43	0.86	0.45 J
1,2-Dichlorobenzene	95-50-1	0.24	0.53	1.0	Not Detected
1,2-Dichloropropane	78-87-5	0.053	0.40	0.81	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.16	0.43	0.86	Not Detected
1,3-Butadiene	106-99-0	0.080	0.19	0.39	0.091 J
1,3-Dichlorobenzene	541-73-1	0.24	0.53	1.0	Not Detected
1,4-Dioxane	123-91-1	0.15	0.32	0.63	0.54 J
2,2,4-Trimethylpentane	540-84-1	0.18	1.6	4.1	0.60 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.43	1.0	2.6	1.5 J
2-Hexanone	591-78-6	0.54	1.4	3.6	Not Detected
2-Propanol	67-63-0	0.43	0.86	2.2	1.5 J
3-Chloropropene	107-05-1	0.41	1.1	2.7	Not Detected
4-Ethyltoluene	622-96-8	0.20	0.43	0.86	0.44 J
4-Methyl-2-pentanone	108-10-1	0.13	0.36	0.72	0.18 J
Acetone	67-64-1	0.27	0.83	4.2	15
alpha-Chlorotoluene	100-44-7	0.20	0.45	0.90	Not Detected
Bromodichloromethane	75-27-4	0.094	0.59	1.2	Not Detected
Bromoform	75-25-2	0.16	0.90	1.8	Not Detected
Bromomethane	74-83-9	0.47	1.4	3.4	Not Detected
Carbon Disulfide	75-15-0	0.20	1.1	2.7	Not Detected
Chlorobenzene	108-90-7	0.061	0.40	0.80	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.097	0.40	0.79	Not Detected
Cumene	98-82-8	0.19	0.43	0.86	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	MOD BLD-AMB1-20190725		
Lab ID:	1907637AR1-04A	**Date/Time Analyzed:**	7/31/19 09:31 PM
Date/Time Collected:	7/25/19 03:08 PM	**Dilution Factor:**	1.75
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073118R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.13	0.30	0.60	0.56 J
Dibromochloromethane	124-48-1	0.12	0.74	1.5	Not Detected
Ethanol	64-17-5	0.52	0.66	1.6	10
Freon 11	75-69-4	0.13	0.49	0.98	1.6
Freon 113	76-13-1	0.13	0.67	1.3	0.46 J
Heptane	142-82-5	0.15	0.36	3.6	1.0 J
Hexachlorobutadiene	87-68-3	1.1	3.7	9.3	Not Detected
Hexane	110-54-3	0.15	0.31	3.1	1.5 J
Methylene Chloride	75-09-2	0.21	0.30	1.2	0.73 J
Propylbenzene	103-65-1	0.22	0.43	0.86	Not Detected
Styrene	100-42-5	0.18	0.37	0.74	0.19 J
Tetrahydrofuran	109-99-9	0.35	1.0	2.6	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.14	0.40	0.79	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	107
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	103

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

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Client ID:	MOD BLD-AMB1-20190725		
Lab ID:	1907637AR1-04B	**Date/Time Analyzed:**	7/31/19 09:31 PM
Date/Time Collected:	7/25/19 03:08 PM	**Dilution Factor:**	1.75
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073118simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.011	0.076	0.19	0.020 J
1,1,2,2-Tetrachloroethane	79-34-5	0.013	0.096	0.24	Not Detected
1,1,2-Trichloroethane	79-00-5	0.0046	0.076	0.19	Not Detected
1,1-Dichloroethane	75-34-3	0.0094	0.057	0.14	Not Detected
1,1-Dichloroethene	75-35-4	0.015	0.056	0.069	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.0087	0.11	0.27	Not Detected
1,2-Dichloroethane	107-06-2	0.0041	0.057	0.14	0.070 J
1,4-Dichlorobenzene	106-46-7	0.022	0.084	0.21	0.038 J
Benzene	71-43-2	0.092	0.11	0.28	1.6
Carbon Tetrachloride	56-23-5	0.027	0.088	0.22	0.43
Chloroethane	75-00-3	0.0084	0.037	0.23	0.052 J
Chloroform	67-66-3	0.014	0.068	0.17	0.10 J
Chloromethane	74-87-3	0.12	0.29	1.8	0.87 J
cis-1,2-Dichloroethene	156-59-2	0.015	0.056	0.14	Not Detected
Ethyl Benzene	100-41-4	0.014	0.061	0.15	0.68
Freon 114	76-14-2	0.023	0.098	0.24	0.084 J
Freon 12	75-71-8	0.033	0.069	0.17	2.4
m,p-Xylene	108-38-3	0.020	0.061	0.30	2.3
Methyl tert-butyl ether	1634-04-4	0.018	0.050	0.63	Not Detected
Naphthalene	91-20-3	0.054	0.15	0.46	0.14 J
o-Xylene	95-47-6	0.020	0.061	0.15	0.72
Tetrachloroethene	127-18-4	0.0042	0.095	0.24	0.26
Toluene	108-88-3	0.029	0.053	0.33	4.1
trans-1,2-Dichloroethene	156-60-5	0.011	0.056	0.69	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	MOD BLD-AMB1-20190725		
Lab ID:	1907637AR1-04B	**Date/Time Analyzed:**	7/31/19 09:31 PM
Date/Time Collected:	7/25/19 03:08 PM	**Dilution Factor:**	1.75
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msd22.i / 22073118simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.018	0.075	0.19	0.049 J
Vinyl Chloride	75-01-4	0.0065	0.036	0.045	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	99
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	105

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Client ID:	Lab Blank		
Lab ID:	1907637AR1-05A	**Date/Time Analyzed:**	7/31/19 12:32 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073106R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	0.39	1.5	3.7	0.40 J
1,2,4-Trimethylbenzene	95-63-6	0.14	0.24	0.49	Not Detected
1,2-Dichlorobenzene	95-50-1	0.14	0.30	0.60	Not Detected
1,2-Dichloropropane	78-87-5	0.030	0.23	0.46	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.092	0.24	0.49	Not Detected
1,3-Butadiene	106-99-0	0.046	0.11	0.22	Not Detected
1,3-Dichlorobenzene	541-73-1	0.14	0.30	0.60	Not Detected
1,4-Dioxane	123-91-1	0.084	0.18	0.36	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.10	0.93	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.25	0.59	1.5	Not Detected
2-Hexanone	591-78-6	0.31	0.82	2.0	Not Detected
2-Propanol	67-63-0	0.24	0.49	1.2	Not Detected UJ
3-Chloropropene	107-05-1	0.24	0.63	1.6	Not Detected
4-Ethyltoluene	622-96-8	0.11	0.24	0.49	Not Detected
4-Methyl-2-pentanone	108-10-1	0.073	0.20	0.41	Not Detected
Acetone	67-64-1	0.15	0.48	2.4	0.31 J
alpha-Chlorotoluene	100-44-7	0.11	0.26	0.52	Not Detected
Bromodichloromethane	75-27-4	0.053	0.34	0.67	Not Detected
Bromoform	75-25-2	0.090	0.52	1.0	Not Detected
Bromomethane	74-83-9	0.27	0.78	1.9	Not Detected
Carbon Disulfide	75-15-0	0.11	0.62	1.6	Not Detected
Chlorobenzene	108-90-7	0.035	0.23	0.46	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.055	0.23	0.45	Not Detected
Cumene	98-82-8	0.11	0.24	0.49	Not Detected

Client ID:	Lab Blank		
Lab ID:	1907637AR1-05A	**Date/Time Analyzed:**	7/31/19 12:32 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073106R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.077	0.17	0.34	Not Detected
Dibromochloromethane	124-48-1	0.071	0.42	0.85	Not Detected
Ethanol	64-17-5	0.29	0.38	0.94	Not Detected
Freon 11	75-69-4	0.074	0.28	0.56	Not Detected
Freon 113	76-13-1	0.072	0.38	0.77	Not Detected
Heptane	142-82-5	0.085	0.20	2.0	Not Detected
Hexachlorobutadiene	87-68-3	0.62	2.1	5.3	Not Detected
Hexane	110-54-3	0.084	0.18	1.8	Not Detected
Methylene Chloride	75-09-2	0.12	0.17	0.69	Not Detected
Propylbenzene	103-65-1	0.12	0.24	0.49	Not Detected
Styrene	100-42-5	0.10	0.21	0.42	Not Detected
Tetrahydrofuran	109-99-9	0.20	0.59	1.5	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.080	0.23	0.45	Not Detected

J = Estimated value.
UJ = Analyte associated with low bias in the CCV.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	108
4-Bromofluorobenzene	460-00-4	70-130	101
Toluene-d8	2037-26-5	70-130	104

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

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Client ID:	Lab Blank		
Lab ID:	1907637AR1-05B	**Date/Time Analyzed:**	7/31/19 12:32 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073106simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.0065	0.044	0.11	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.0077	0.055	0.14	0.043 J
1,1,2-Trichloroethane	79-00-5	0.0026	0.044	0.11	Not Detected
1,1-Dichloroethane	75-34-3	0.0054	0.032	0.081	Not Detected
1,1-Dichloroethene	75-35-4	0.0084	0.032	0.040	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.0050	0.061	0.15	0.023 J
1,2-Dichloroethane	107-06-2	0.0023	0.032	0.081	0.0070 J
1,4-Dichlorobenzene	106-46-7	0.013	0.048	0.12	0.087 J
Benzene	71-43-2	0.053	0.064	0.16	Not Detected
Carbon Tetrachloride	56-23-5	0.015	0.050	0.12	Not Detected
Chloroethane	75-00-3	0.0048	0.021	0.13	Not Detected
Chloroform	67-66-3	0.0082	0.039	0.098	Not Detected
Chloromethane	74-87-3	0.068	0.16	1.0	Not Detected UJ
cis-1,2-Dichloroethene	156-59-2	0.0087	0.032	0.079	Not Detected
Ethyl Benzene	100-41-4	0.0081	0.035	0.087	Not Detected
Freon 114	76-14-2	0.013	0.056	0.14	Not Detected
Freon 12	75-71-8	0.019	0.040	0.099	Not Detected
m,p-Xylene	108-38-3	0.012	0.035	0.17	Not Detected
Methyl tert-butyl ether	1634-04-4	0.010	0.029	0.36	Not Detected
Naphthalene	91-20-3	0.031	0.084	0.26	0.048 J
o-Xylene	95-47-6	0.011	0.035	0.087	Not Detected
Tetrachloroethene	127-18-4	0.0024	0.054	0.14	Not Detected
Toluene	108-88-3	0.017	0.030	0.19	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.0064	0.032	0.40	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	Lab Blank		
Lab ID:	1907637AR1-05B	**Date/Time Analyzed:**	7/31/19 12:32 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073106simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.010	0.043	0.11	Not Detected
Vinyl Chloride	75-01-4	0.0037	0.020	0.026	Not Detected

UJ = Analyte associated with low bias in the CCV.
J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	100
4-Bromofluorobenzene	460-00-4	70-130	108
Toluene-d8	2037-26-5	70-130	102

Client ID:	CCV		
Lab ID:	1907637AR1-06A	**Date/Time Analyzed:**	7/31/19 09:10 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073102

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	100
1,2,4-Trimethylbenzene	95-63-6	90
1,2-Dichlorobenzene	95-50-1	76
1,2-Dichloropropane	78-87-5	110
1,3,5-Trimethylbenzene	108-67-8	98
1,3-Butadiene	106-99-0	90
1,3-Dichlorobenzene	541-73-1	123
1,4-Dioxane	123-91-1	94
2,2,4-Trimethylpentane	540-84-1	91
2-Butanone (Methyl Ethyl Ketone)	78-93-3	82
2-Hexanone	591-78-6	72
2-Propanol	67-63-0	68 Q
3-Chloropropene	107-05-1	90
4-Ethyltoluene	622-96-8	100
4-Methyl-2-pentanone	108-10-1	88
Acetone	67-64-1	86
alpha-Chlorotoluene	100-44-7	76
Bromodichloromethane	75-27-4	97
Bromoform	75-25-2	95
Bromomethane	74-83-9	103
Carbon Disulfide	75-15-0	98
Chlorobenzene	108-90-7	102
cis-1,3-Dichloropropene	10061-01-5	98
Cumene	98-82-8	96

Client ID:	CCV		
Lab ID:	1907637AR1-06A	**Date/Time Analyzed:**	7/31/19 09:10 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073102

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	91
Dibromochloromethane	124-48-1	93
Ethanol	64-17-5	73
Freon 11	75-69-4	96
Freon 113	76-13-1	94
Heptane	142-82-5	111
Hexachlorobutadiene	87-68-3	123
Hexane	110-54-3	90
Methylene Chloride	75-09-2	91
Propylbenzene	103-65-1	96
Styrene	100-42-5	88
Tetrahydrofuran	109-99-9	80
trans-1,3-Dichloropropene	10061-02-6	92

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	94
4-Bromofluorobenzene	460-00-4	70-130	99
Toluene-d8	2037-26-5	70-130	111

Client ID:	CCV		
Lab ID:	1907637AR1-06B	**Date/Time Analyzed:**	7/31/19 09:10 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073102sim

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	87
1,1,2,2-Tetrachloroethane	79-34-5	91
1,1,2-Trichloroethane	79-00-5	97
1,1-Dichloroethane	75-34-3	84
1,1-Dichloroethene	75-35-4	83
1,2-Dibromoethane (EDB)	106-93-4	95
1,2-Dichloroethane	107-06-2	102
1,4-Dichlorobenzene	106-46-7	98
Benzene	71-43-2	91
Carbon Tetrachloride	56-23-5	104
Chloroethane	75-00-3	114
Chloroform	67-66-3	97
Chloromethane	74-87-3	65 Q
cis-1,2-Dichloroethene	156-59-2	85
Ethyl Benzene	100-41-4	93
Freon 114	76-14-2	70
Freon 12	75-71-8	80
m,p-Xylene	108-38-3	88
Methyl tert-butyl ether	1634-04-4	74
Naphthalene	91-20-3	80
o-Xylene	95-47-6	86
Tetrachloroethene	127-18-4	95
Toluene	108-88-3	96
trans-1,2-Dichloroethene	156-60-5	91

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	CCV		
Lab ID:	1907637AR1-06B	**Date/Time Analyzed:**	7/31/19 09:10 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073102sim

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	105
Vinyl Chloride	75-01-4	82

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	106
Toluene-d8	2037-26-5	70-130	108

Client ID:	LCS		
Lab ID:	1907637AR1-07A	**Date/Time Analyzed:**	7/31/19 09:56 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073103

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	105
1,2,4-Trimethylbenzene	95-63-6	97
1,2-Dichlorobenzene	95-50-1	83
1,2-Dichloropropane	78-87-5	109
1,3,5-Trimethylbenzene	108-67-8	105
1,3-Butadiene	106-99-0	94
1,3-Dichlorobenzene	541-73-1	130
1,4-Dioxane	123-91-1	98
2,2,4-Trimethylpentane	540-84-1	97
2-Butanone (Methyl Ethyl Ketone)	78-93-3	87
2-Hexanone	591-78-6	88
2-Propanol	67-63-0	80
3-Chloropropene	107-05-1	86
4-Ethyltoluene	622-96-8	105
4-Methyl-2-pentanone	108-10-1	94
Acetone	67-64-1	90
alpha-Chlorotoluene	100-44-7	93
Bromodichloromethane	75-27-4	101
Bromoform	75-25-2	98
Bromomethane	74-83-9	109
Carbon Disulfide	75-15-0	88
Chlorobenzene	108-90-7	107
cis-1,3-Dichloropropene	10061-01-5	94
Cumene	98-82-8	100

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCS		
Lab ID:	1907637AR1-07A	**Date/Time Analyzed:**	7/31/19 09:56 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073103

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	94
Dibromochloromethane	124-48-1	96
Ethanol	64-17-5	91
Freon 11	75-69-4	101
Freon 113	76-13-1	97
Heptane	142-82-5	112
Hexachlorobutadiene	87-68-3	127
Hexane	110-54-3	93
Methylene Chloride	75-09-2	92
Propylbenzene	103-65-1	101
Styrene	100-42-5	92
Tetrahydrofuran	109-99-9	84
trans-1,3-Dichloropropene	10061-02-6	98

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	96
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	108

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCSD		
Lab ID:	1907637AR1-07AA	**Date/Time Analyzed:**	7/31/19 10:32 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073104

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	105
1,2,4-Trimethylbenzene	95-63-6	96
1,2-Dichlorobenzene	95-50-1	85
1,2-Dichloropropane	78-87-5	108
1,3,5-Trimethylbenzene	108-67-8	102
1,3-Butadiene	106-99-0	94
1,3-Dichlorobenzene	541-73-1	126
1,4-Dioxane	123-91-1	99
2,2,4-Trimethylpentane	540-84-1	96
2-Butanone (Methyl Ethyl Ketone)	78-93-3	87
2-Hexanone	591-78-6	89
2-Propanol	67-63-0	82
3-Chloropropene	107-05-1	87
4-Ethyltoluene	622-96-8	103
4-Methyl-2-pentanone	108-10-1	95
Acetone	67-64-1	89
alpha-Chlorotoluene	100-44-7	95
Bromodichloromethane	75-27-4	101
Bromoform	75-25-2	98
Bromomethane	74-83-9	108
Carbon Disulfide	75-15-0	87
Chlorobenzene	108-90-7	106
cis-1,3-Dichloropropene	10061-01-5	94
Cumene	98-82-8	99

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCSD		
Lab ID:	1907637AR1-07AA	**Date/Time Analyzed:**	7/31/19 10:32 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073104

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	95
Dibromochloromethane	124-48-1	95
Ethanol	64-17-5	94
Freon 11	75-69-4	101
Freon 113	76-13-1	95
Heptane	142-82-5	111
Hexachlorobutadiene	87-68-3	128
Hexane	110-54-3	93
Methylene Chloride	75-09-2	91
Propylbenzene	103-65-1	98
Styrene	100-42-5	92
Tetrahydrofuran	109-99-9	85
trans-1,3-Dichloropropene	10061-02-6	97

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	94
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	108

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	LCS		
Lab ID:	1907637AR1-07B	**Date/Time Analyzed:**	7/31/19 09:56 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073103sim

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	89
1,1,2,2-Tetrachloroethane	79-34-5	98
1,1,2-Trichloroethane	79-00-5	101
1,1-Dichloroethane	75-34-3	86
1,1-Dichloroethene	75-35-4	84
1,2-Dibromoethane (EDB)	106-93-4	101
1,2-Dichloroethane	107-06-2	103
1,4-Dichlorobenzene	106-46-7	103
Benzene	71-43-2	91
Carbon Tetrachloride	56-23-5	58 Q
Chloroethane	75-00-3	120
Chloroform	67-66-3	98
Chloromethane	74-87-3	69 Q
cis-1,2-Dichloroethene	156-59-2	95
Ethyl Benzene	100-41-4	96
Freon 114	76-14-2	76
Freon 12	75-71-8	83
m,p-Xylene	108-38-3	90
Methyl tert-butyl ether	1634-04-4	78
Naphthalene	91-20-3	76
o-Xylene	95-47-6	90
Tetrachloroethene	127-18-4	98
Toluene	108-88-3	97
trans-1,2-Dichloroethene	156-60-5	80

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	LCS		
Lab ID:	1907637AR1-07B	**Date/Time Analyzed:**	7/31/19 09:56 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073103sim

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	106
Vinyl Chloride	75-01-4	87

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	104
Toluene-d8	2037-26-5	70-130	107

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

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Client ID:	LCSD		
Lab ID:	1907637AR1-07BB	**Date/Time Analyzed:**	7/31/19 10:32 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073104sim

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	89
1,1,2,2-Tetrachloroethane	79-34-5	98
1,1,2-Trichloroethane	79-00-5	101
1,1-Dichloroethane	75-34-3	86
1,1-Dichloroethene	75-35-4	84
1,2-Dibromoethane (EDB)	106-93-4	102
1,2-Dichloroethane	107-06-2	103
1,4-Dichlorobenzene	106-46-7	102
Benzene	71-43-2	91
Carbon Tetrachloride	56-23-5	58 Q
Chloroethane	75-00-3	119
Chloroform	67-66-3	98
Chloromethane	74-87-3	68 Q
cis-1,2-Dichloroethene	156-59-2	95
Ethyl Benzene	100-41-4	95
Freon 114	76-14-2	76
Freon 12	75-71-8	83
m,p-Xylene	108-38-3	89
Methyl tert-butyl ether	1634-04-4	78
Naphthalene	91-20-3	77
o-Xylene	95-47-6	89
Tetrachloroethene	127-18-4	98
Toluene	108-88-3	97
trans-1,2-Dichloroethene	156-60-5	79

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma Mod Building

Client ID:	LCSD		
Lab ID:	1907637AR1-07BB	**Date/Time Analyzed:**	7/31/19 10:32 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msd22.i / 22073104sim

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	106
Vinyl Chloride	75-01-4	87

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	103
Toluene-d8	2037-26-5	70-130	107

* % Recovery is calculated using unrounded analytical results.

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8/5/2019
Mr. Bill Beck
Stericycle Environmental Solutions, Inc.
18000 72nd Ave. S
Suite 217
Kent WA 98032

Project Name: Tacoma Mod Building
Project #:
Workorder #: 1907637B

Dear Mr. Bill Beck

The following report includes the data for the above referenced project for sample(s) received on 7/29/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 APH 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 Inc. 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: Allyson Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Allyson Scott

Project Manager

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WORK ORDER #: 1907637B

Work Order Summary

CLIENT:	Mr. Bill Beck Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032	**BILL TO:**	Mr. Bill Beck Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032
PHONE:	425-227-6149	**P.O. #**	
FAX:		**PROJECT #**	Tacoma Mod Building
DATE RECEIVED:	07/29/2019	**CONTACT:**	Allyson Scott
DATE COMPLETED:	08/05/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	MOD BLD-NE-20190725	Modified TO-15 APH	4.0 "Hg	5 psi
01B	MOD BLD-NE-20190725	Modified TO-15 APH	4.0 "Hg	5 psi
02A	MOD BLD-SW1-20190725	Modified TO-15 APH	4.5 "Hg	5 psi
02B	MOD BLD-SW1-20190725	Modified TO-15 APH	4.5 "Hg	5 psi
03A	MOD BLD-SW2-20190725	Modified TO-15 APH	4.0 "Hg	5 psi
03B	MOD BLD-SW2-20190725	Modified TO-15 APH	4.0 "Hg	5 psi
04A	MOD BLD-AMB1-20190725	Modified TO-15 APH	7.0 "Hg	5 psi
04B	MOD BLD-AMB1-20190725	Modified TO-15 APH	7.0 "Hg	5 psi
05A	Lab Blank	Modified TO-15 APH	NA	NA
05B	Lab Blank	Modified TO-15 APH	NA	NA
06A	CCV	Modified TO-15 APH	NA	NA
06B	CCV	Modified TO-15 APH	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 08/05/19

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 & VPH Fractions
Stericycle Environmental Solutions, Inc.
Workorder# 1907637B

Four 6 Liter Summa Canister (SIM Certified) samples were received on July 29, 2019. The laboratory performed analysis via EPA Method TO-15 and Air Toxics VPH (Volatile Petroleum Hydrocarbon) methods for the Determination of VPH Fractions using GC/MS in the full scan mode. The method involves concentrating up to 0.5 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. This method is designed to measure gaseous phase aliphatic and aromatic compounds in ambient air and soil gas collected in stainless steel Summa canisters. Air Toxics VPH method is a hybrid of EPA TO-15, MADEP APH and WSDE VPH methods. Chromatographic peaks were identified via mass spectrum as either aliphatic or aromatic petroleum hydrocarbons and included in the appropriate range as defined by the method. The volatile Aliphatic hydrocarbons are collectively quantified within the C5 to C6 range, C6 to C8 range, C8 to C10 range and the C10 to C12 range. Additionally, the volatile Aromatic hydrocarbons are collectively quantified within the C8 to C10 range and the C10 to C12 range. The Aromatic ranges refer to the equivalent carbon (EC) ranges. (Please note that benzene constitutes the >C5-C7 aromatic range and toluene constitutes the >C7-C8 aromatic range. Benzene and toluene concentrations are reported on the TO-15 workorder fraction.)

Aliphatic data is calculated from the Total Ion chromatogram which has been reprocessed in a duplicate file differentiated from the original by the addition of an alphanumeric extension. The Aromatic calculation also uses the information contained in the associated Extracted Ion file.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

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.
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

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

Client Sample ID: MOD BLD-NE-20190725

Lab ID#: 1907637B-01A

No Detections Were Found.

Client Sample ID: MOD BLD-NE-20190725

Lab ID#: 1907637B-01B

No Detections Were Found.

Client Sample ID: MOD BLD-SW1-20190725

Lab ID#: 1907637B-02A

No Detections Were Found.

Client Sample ID: MOD BLD-SW1-20190725

Lab ID#: 1907637B-02B

No Detections Were Found.

Client Sample ID: MOD BLD-SW2-20190725

Lab ID#: 1907637B-03A

No Detections Were Found.

Client Sample ID: MOD BLD-SW2-20190725

Lab ID#: 1907637B-03B

No Detections Were Found.

Client Sample ID: MOD BLD-AMB1-20190725

Lab ID#: 1907637B-04A

No Detections Were Found.

Client Sample ID: MOD BLD-AMB1-20190725

Lab ID#: 1907637B-04B

No Detections Were Found.

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Client Sample ID: MOD BLD-NE-20190725

Lab ID#: 1907637B-01A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080112a**	**Date of Collection: 7/25/19 2:54:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 8/1/19 06:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	Not Detected	50	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	16	Not Detected	64	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	16	Not Detected	90	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	16	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-NE-20190725

Lab ID#: 1907637B-01B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080112c**	**Date of Collection: 7/25/19 2:54:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 8/1/19 06:17 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	16	Not Detected	76	Not Detected
>C10-C12 Aromatic Hydrocarbons	16	Not Detected	85	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-SW1-20190725

Lab ID#: 1907637B-02A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080113a**	**Date of Collection: 7/25/19 2:30:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 8/1/19 06:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	Not Detected	51	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	16	Not Detected	65	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	16	Not Detected	92	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	16	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-SW1-20190725

Lab ID#: 1907637B-02B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080113c**	**Date of Collection: 7/25/19 2:30:00 PM**	
Dil. Factor:	**1.58**	**Date of Analysis: 8/1/19 06:43 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	16	Not Detected	78	Not Detected
>C10-C12 Aromatic Hydrocarbons	16	Not Detected	87	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-SW2-20190725

Lab ID#: 1907637B-03A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080114a**	**Date of Collection: 7/25/19 2:30:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 8/1/19 07:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	Not Detected	50	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	16	Not Detected	64	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	16	Not Detected	90	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	16	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-SW2-20190725

Lab ID#: 1907637B-03B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080114c**	**Date of Collection: 7/25/19 2:30:00 PM**	
Dil. Factor:	**1.55**	**Date of Analysis: 8/1/19 07:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	16	Not Detected	76	Not Detected
>C10-C12 Aromatic Hydrocarbons	16	Not Detected	85	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-AMB1-20190725

Lab ID#: 1907637B-04A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080115a**	**Date of Collection: 7/25/19 3:08:00 PM**	
Dil. Factor:	**1.75**	**Date of Analysis: 8/1/19 07:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	18	Not Detected	57	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	18	Not Detected	72	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	18	Not Detected	100	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	18	Not Detected	120	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-AMB1-20190725

Lab ID#: 1907637B-04B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080115c**	**Date of Collection: 7/25/19 3:08:00 PM**	
Dil. Factor:	**1.75**	**Date of Analysis: 8/1/19 07:36 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	18	Not Detected	86	Not Detected
>C10-C12 Aromatic Hydrocarbons	18	Not Detected	96	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: Lab Blank

Lab ID#: 1907637B-05A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080111a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/19 05:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	10	Not Detected	32	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	10	Not Detected	41	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	10	Not Detected	58	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	10	Not Detected	70	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1907637B-05B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080111c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/19 05:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	10	Not Detected	49	Not Detected
>C10-C12 Aromatic Hydrocarbons	10	Not Detected	55	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1907637B-06A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080110a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/19 04:42 PM**	

Compound	%Recovery
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	97
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	102
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	103
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	96

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1907637B-06B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**p080110c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/1/19 04:42 PM**	

Compound	%Recovery
>C8-C10 Aromatic Hydrocarbons	100
>C10-C12 Aromatic Hydrocarbons	98

Container Type: NA - Not Applicable

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 1907637

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

page 1 of 1

Client: Stericycle
Project Name: Tacoma Med Building
Project Manager: Tasya Gray Project #
Sampler: Trevor Lowiere
Site Name: Stericycle Tacoma

Special Instructions/Notes:

Turnaround Time (Rush surcharges may apply)
Standard _____ Rush _____(specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Canister Vacuum/Pressure Initial (in Hg)	Canister Vacuum/Pressure Final (in Hg)	Lab Use Only Receipt	Lab Use Only Final (psig) Gas: N_2 / He	Requested Analyses APH by TO-15	Requested Analyses VOCs by TO-15	Requested Analyses Naphthalene by TO-15
01A	MOD BLD - NE - 20190725	Ni717/6L0892	23227	7/25/19	0653	7/25/19	1454	-30	-8			X	X	X
02A	MOD BLD - SW1 - 20190725	6L1692	23175	↓	0657	↓	1407 1430	-32	-8.5			X	X	X
03A	MOD BLD - SW2 - 20190725	6L0887	23143	↓	0657	↓	1407 1430	-27	-5			X	X	X
04A	MOD BLD - AMB1 - 20190725	9251	23304	↓	0708	↓	1508	-28.25	-8			X	X	X

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
	7/25/19	1555	FEDEX		
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
			SATL	7/29/19	1139
Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time

Lab Use Only

Shipper Name: FedEx | Custody Seals Intact? | Yes | No | None

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

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2/25/2020
Mr. Duane Beery
Stericycle Environmental Solutions, Inc.
18000 72nd Ave. S
Suite 217
Kent WA 98032

Project Name: Tacoma MOD Building
Project #:
Workorder #: 2001467AR1

Dear Mr. Duane Beery

The following report includes the data for the above referenced project for sample(s) received on 1/21/2020 at Air Toxics Ltd.

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 Inc. 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2001467AR1

Work Order Summary

CLIENT:	Mr. Duane Beery Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032	**BILL TO:**	Mr. Duane Beery Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032
PHONE:	425-227-6128	**P.O. #**	
FAX:		**PROJECT #**	Tacoma MOD Building
DATE RECEIVED:	01/21/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/03/2020		
DATE REISSUED:	02/25/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	MOD BLD-NE-20200120	Modified TO-15	4.9 "Hg	5 psi
01B	MOD BLD-NE-20200120	Modified TO-15	4.9 "Hg	5 psi
02A	MOD BLD-SW1-20200120	Modified TO-15	5.5 "Hg	5.2 psi
02B	MOD BLD-SW1-20200120	Modified TO-15	5.5 "Hg	5.2 psi
03A	MOD BLD-SW2-20200120	Modified TO-15	5.1 "Hg	5.1 psi
03B	MOD BLD-SW2-20200120	Modified TO-15	5.1 "Hg	5.1 psi
04A	MOD BLD-AMB1-20200120	Modified TO-15	5.1 "Hg	5.2 psi
04B	MOD BLD-AMB1-20200120	Modified TO-15	5.1 "Hg	5.2 psi
05A	Lab Blank	Modified TO-15	NA	NA
05B	Lab Blank	Modified TO-15	NA	NA
05C	Lab Blank	Modified TO-15	NA	NA
05D	Lab Blank	Modified TO-15	NA	NA
06A	CCV	Modified TO-15	NA	NA
06B	CCV	Modified TO-15	NA	NA
06C	CCV	Modified TO-15	NA	NA
06D	CCV	Modified TO-15	NA	NA
07A	LCS	Modified TO-15	NA	NA
07AA	LCSD	Modified TO-15	NA	NA
07B	LCS	Modified TO-15	NA	NA
07BB	LCSD	Modified TO-15	NA	NA
07C	LCS	Modified TO-15	NA	NA
07CC	LCSD	Modified TO-15	NA	NA
07D	LCS	Modified TO-15	NA	NA

Continued on next page

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WORK ORDER #: 2001467AR1

Work Order Summary

CLIENT:	Mr. Duane Beery Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032	**BILL TO:**	Mr. Duane Beery Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032
PHONE:	425-227-6128	**P.O. #**	
FAX:		**PROJECT #**	Tacoma MOD Building
DATE RECEIVED:	01/21/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/03/2020		
DATE REISSUED:	02/25/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
07DD	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 02/25/20

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Stericycle Environmental Solutions, Inc.
Workorder# 2001467AR1

Four 6 Liter Summa Canister (SIM Certified) samples were received on January 21, 2020. 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.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=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 </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=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

There were no receiving discrepancies.

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 QC analyses have not been flagged.

The Relative Percent Difference (RPD) of the LCS/LCSD exceeded acceptance limits for Naphthalene

(analytical batch from 1/30/20).

The recovery of surrogate, 1,2-Dichloroethane-d4, in the Lab Blank analyzed on 1/31/20 was outside laboratory control limits of 70-130%. CAR # K23G53682A was initiated.

Per client request, the workorder was reissued on 2/25/2020 to report estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

In addition, in this revision, the data is reported using a different format.

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

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	MOD BLD-NE-20200120		
Lab ID:	2001467AR1-01A	**Date/Time Analyzed:**	1/31/20 05:38 PM
Date/Time Collected:	1/20/20 03:45 PM	**Dilution Factor:**	1.60
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013112R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	2.2	4.7	5.9	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.17	0.63	0.79	0.91
1,2-Dichlorobenzene	95-50-1	0.18	0.77	0.96	Not Detected
1,2-Dichloropropane	78-87-5	0.18	0.59	0.74	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.16	0.63	0.79	0.56 J
1,3-Butadiene	106-99-0	0.076	0.28	0.35	0.30 J
1,3-Dichlorobenzene	541-73-1	0.33	0.77	0.96	Not Detected
1,4-Dioxane	123-91-1	0.31	0.46	0.58	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.65	3.0	3.7	2.6 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.48	1.9	2.4	18
2-Hexanone	591-78-6	0.83	2.6	3.3	Not Detected
2-Propanol	67-63-0	0.22	1.6	2.0	11
3-Chloropropene	107-05-1	0.91	2.0	2.5	Not Detected
4-Ethyltoluene	622-96-8	0.18	0.63	0.79	1.5
4-Methyl-2-pentanone	108-10-1	0.16	0.52	0.66	1.2 J0
Acetone	67-64-1	0.64	1.5	3.8	45
alpha-Chlorotoluene	100-44-7	0.16	0.66	0.83	Not Detected
Bromodichloromethane	75-27-4	0.39	0.86	1.1	Not Detected
Bromoform	75-25-2	0.39	1.3	1.6	Not Detected
Bromomethane	74-83-9	0.54	2.5	3.1	Not Detected
Carbon Disulfide	75-15-0	0.43	2.0	2.5	0.73 J
Chlorobenzene	108-90-7	0.19	0.59	0.74	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.14	0.58	0.73	Not Detected
Cumene	98-82-8	0.12	0.63	0.79	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	MOD BLD-NE-20200120		
Lab ID:	2001467AR1-01A	**Date/Time Analyzed:**	1/31/20 05:38 PM
Date/Time Collected:	1/20/20 03:45 PM	**Dilution Factor:**	1.60
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013112R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.15	0.44	0.55	3.5
Dibromochloromethane	124-48-1	0.41	1.1	1.4	Not Detected
Ethanol	64-17-5	0.31	1.2	1.5	29
Freon 11	75-69-4	0.18	0.72	0.90	2.5
Freon 113	76-13-1	0.24	0.98	1.2	0.47 J
Heptane	142-82-5	0.22	2.6	3.3	2.6 J
Hexachlorobutadiene	87-68-3	2.9	6.8	8.5	Not Detected
Hexane	110-54-3	0.32	2.2	2.8	25
Methylene Chloride	75-09-2	0.16	0.44	1.1	4.0
Propylbenzene	103-65-1	0.20	0.63	0.79	0.30 J
Styrene	100-42-5	0.073	0.54	0.68	5.6
Tetrahydrofuran	109-99-9	0.94	1.9	2.4	1.4 J
trans-1,3-Dichloropropene	10061-02-6	0.17	0.58	0.73	Not Detected

J = Estimated value.
J0 = Estimated value due to bias in the CCV.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	122
4-Bromofluorobenzene	460-00-4	70-130	89
Toluene-d8	2037-26-5	70-130	103

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	MOD BLD-NE-20200120		
Lab ID:	2001467AR1-01B	**Date/Time Analyzed:**	1/31/20 05:38 PM
Date/Time Collected:	1/20/20 03:45 PM	**Dilution Factor:**	1.60
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013112simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.052	0.16	0.17	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.073	0.20	0.22	Not Detected
1,1,2-Trichloroethane	79-00-5	0.053	0.16	0.17	Not Detected
1,1-Dichloroethane	75-34-3	0.043	0.12	0.13	Not Detected
1,1-Dichloroethene	75-35-4	0.051	0.057	0.063	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.039	0.22	0.24	Not Detected
1,2-Dichloroethane	107-06-2	0.024	0.12	0.13	0.19
1,4-Dichlorobenzene	106-46-7	0.11	0.17	0.19	Not Detected
Benzene	71-43-2	0.15	0.15	0.26	1.8
Carbon Tetrachloride	56-23-5	0.094	0.18	0.20	0.43
Chloroethane	75-00-3	0.031	0.13	0.21	0.034 J
Chloroform	67-66-3	0.044	0.14	0.16	1.1
Chloromethane	74-87-3	0.040	0.099	1.6	1.2 J
cis-1,2-Dichloroethene	156-59-2	0.045	0.11	0.13	Not Detected
Ethyl Benzene	100-41-4	0.092	0.12	0.14	1.2
Freon 114	76-14-2	0.066	0.20	0.22	0.10 J
Freon 12	75-71-8	0.040	0.14	0.16	2.3
m,p-Xylene	108-38-3	0.16	0.21	0.28	4.3
Methyl tert-butyl ether	1634-04-4	0.050	0.17	0.58	0.11 J
Naphthalene	91-20-3	0.071	0.34	0.42	Not Detected
o-Xylene	95-47-6	0.031	0.12	0.14	1.5
Tetrachloroethene	127-18-4	0.041	0.20	0.22	0.64
Toluene	108-88-3	0.092	0.18	0.30	13
trans-1,2-Dichloroethene	156-60-5	0.048	0.19	0.63	0.21 J

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	MOD BLD-NE-20200120		
Lab ID:	2001467AR1-01B	**Date/Time Analyzed:**	1/31/20 05:38 PM
Date/Time Collected:	1/20/20 03:45 PM	**Dilution Factor:**	1.60
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013112simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.12	0.15	0.17	Not Detected
Vinyl Chloride	75-01-4	0.031	0.037	0.041	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	120
4-Bromofluorobenzene	460-00-4	70-130	90
Toluene-d8	2037-26-5	70-130	104

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	MOD BLD-SW1-20200120		
Lab ID:	2001467AR1-02A	**Date/Time Analyzed:**	1/31/20 02:52 PM
Date/Time Collected:	1/20/20 03:21 PM	**Dilution Factor:**	1.66
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013108R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	2.2	4.9	6.2	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.18	0.65	0.82	1.4
1,2-Dichlorobenzene	95-50-1	0.18	0.80	1.0	Not Detected
1,2-Dichloropropane	78-87-5	0.18	0.61	0.77	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.16	0.65	0.82	0.71 J
1,3-Butadiene	106-99-0	0.079	0.29	0.37	0.39
1,3-Dichlorobenzene	541-73-1	0.34	0.80	1.0	Not Detected
1,4-Dioxane	123-91-1	0.32	0.48	0.60	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.67	3.1	3.9	2.0 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.50	2.0	2.4	9.1
2-Hexanone	591-78-6	0.86	2.7	3.4	Not Detected
2-Propanol	67-63-0	0.23	1.6	2.0	11
3-Chloropropene	107-05-1	0.95	2.1	2.6	Not Detected
4-Ethyltoluene	622-96-8	0.19	0.65	0.82	1.7
4-Methyl-2-pentanone	108-10-1	0.17	0.54	0.68	1.2 J0
Acetone	67-64-1	0.66	1.6	3.9	38
alpha-Chlorotoluene	100-44-7	0.17	0.69	0.86	Not Detected
Bromodichloromethane	75-27-4	0.40	0.89	1.1	Not Detected
Bromoform	75-25-2	0.40	1.4	1.7	Not Detected
Bromomethane	74-83-9	0.56	2.6	3.2	Not Detected
Carbon Disulfide	75-15-0	0.45	2.1	2.6	0.59 J
Chlorobenzene	108-90-7	0.20	0.61	0.76	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.15	0.60	0.75	Not Detected
Cumene	98-82-8	0.13	0.65	0.82	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	MOD BLD-SW1-20200120		
Lab ID:	2001467AR1-02A	**Date/Time Analyzed:**	1/31/20 02:52 PM
Date/Time Collected:	1/20/20 03:21 PM	**Dilution Factor:**	1.66
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013108R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.15	0.46	0.57	3.3
Dibromochloromethane	124-48-1	0.43	1.1	1.4	Not Detected
Ethanol	64-17-5	0.32	1.2	1.6	22
Freon 11	75-69-4	0.19	0.75	0.93	3.0
Freon 113	76-13-1	0.25	1.0	1.3	0.48 J
Heptane	142-82-5	0.23	2.7	3.4	2.6 J
Hexachlorobutadiene	87-68-3	3.0	7.1	8.8	Not Detected
Hexane	110-54-3	0.33	2.3	2.9	30
Methylene Chloride	75-09-2	0.17	0.46	1.2	3.7
Propylbenzene	103-65-1	0.21	0.65	0.82	0.48 J
Styrene	100-42-5	0.076	0.56	0.71	3.0
Tetrahydrofuran	109-99-9	0.97	2.0	2.4	1.9 J
trans-1,3-Dichloropropene	10061-02-6	0.18	0.60	0.75	Not Detected

J = Estimated value.
J0 = Estimated value due to bias in the CCV.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	125
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	107

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	MOD BLD-SW1-20200120		
Lab ID:	2001467AR1-02B	**Date/Time Analyzed:**	1/31/20 02:52 PM
Date/Time Collected:	1/20/20 03:21 PM	**Dilution Factor:**	1.66
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013108simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.054	0.16	0.18	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.075	0.20	0.23	Not Detected
1,1,2-Trichloroethane	79-00-5	0.055	0.16	0.18	Not Detected
1,1-Dichloroethane	75-34-3	0.045	0.12	0.13	Not Detected
1,1-Dichloroethene	75-35-4	0.053	0.059	0.066	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.040	0.23	0.26	Not Detected
1,2-Dichloroethane	107-06-2	0.024	0.12	0.13	0.23
1,4-Dichlorobenzene	106-46-7	0.11	0.18	0.20	Not Detected
Benzene	71-43-2	0.16	0.16	0.26	2.0
Carbon Tetrachloride	56-23-5	0.097	0.19	0.21	0.45
Chloroethane	75-00-3	0.032	0.13	0.22	Not Detected
Chloroform	67-66-3	0.046	0.14	0.16	1.1
Chloromethane	74-87-3	0.041	0.10	1.7	1.2 J
cis-1,2-Dichloroethene	156-59-2	0.046	0.12	0.13	Not Detected
Ethyl Benzene	100-41-4	0.095	0.13	0.14	1.2
Freon 114	76-14-2	0.068	0.21	0.23	0.10 J
Freon 12	75-71-8	0.042	0.15	0.16	2.4
m,p-Xylene	108-38-3	0.17	0.22	0.29	4.4
Methyl tert-butyl ether	1634-04-4	0.052	0.18	0.60	0.11 J
Naphthalene	91-20-3	0.074	0.35	0.44	0.16 J
o-Xylene	95-47-6	0.032	0.13	0.14	1.7
Tetrachloroethene	127-18-4	0.043	0.20	0.22	0.30
Toluene	108-88-3	0.095	0.19	0.31	14
trans-1,2-Dichloroethene	156-60-5	0.050	0.20	0.66	0.19 J

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	MOD BLD-SW1-20200120		
Lab ID:	2001467AR1-02B	**Date/Time Analyzed:**	1/31/20 02:52 PM
Date/Time Collected:	1/20/20 03:21 PM	**Dilution Factor:**	1.66
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013108simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.12	0.16	0.18	Not Detected
Vinyl Chloride	75-01-4	0.032	0.038	0.042	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	120
4-Bromofluorobenzene	460-00-4	70-130	90
Toluene-d8	2037-26-5	70-130	105

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	MOD BLD-SW2-20200120		
Lab ID:	2001467AR1-03A	**Date/Time Analyzed:**	1/31/20 06:24 AM
Date/Time Collected:	1/20/20 03:21 PM	**Dilution Factor:**	1.62
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013025R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	2.2	4.8	6.0	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.17	0.64	0.80	1.4
1,2-Dichlorobenzene	95-50-1	0.18	0.78	0.97	Not Detected
1,2-Dichloropropane	78-87-5	0.18	0.60	0.75	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.16	0.64	0.80	0.74 J
1,3-Butadiene	106-99-0	0.077	0.29	0.36	0.40
1,3-Dichlorobenzene	541-73-1	0.33	0.78	0.97	Not Detected
1,4-Dioxane	123-91-1	0.31	0.47	0.58	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.66	3.0	3.8	2.0 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.49	1.9	2.4	8.8
2-Hexanone	591-78-6	0.84	2.6	3.3	Not Detected
2-Propanol	67-63-0	0.22	1.6	2.0	11
3-Chloropropene	107-05-1	0.92	2.0	2.5	Not Detected
4-Ethyltoluene	622-96-8	0.18	0.64	0.80	1.6
4-Methyl-2-pentanone	108-10-1	0.16	0.53	0.66	1.2 J0
Acetone	67-64-1	0.65	1.5	3.8	35
alpha-Chlorotoluene	100-44-7	0.16	0.67	0.84	Not Detected
Bromodichloromethane	75-27-4	0.39	0.87	1.1	Not Detected
Bromoform	75-25-2	0.39	1.3	1.7	Not Detected
Bromomethane	74-83-9	0.55	2.5	3.1	Not Detected
Carbon Disulfide	75-15-0	0.44	2.0	2.5	0.59 J
Chlorobenzene	108-90-7	0.19	0.60	0.74	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.15	0.59	0.74	Not Detected
Cumene	98-82-8	0.12	0.64	0.80	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	MOD BLD-SW2-20200120		
Lab ID:	2001467AR1-03A	**Date/Time Analyzed:**	1/31/20 06:24 AM
Date/Time Collected:	1/20/20 03:21 PM	**Dilution Factor:**	1.62
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013025R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.15	0.45	0.56	3.4
Dibromochloromethane	124-48-1	0.42	1.1	1.4	Not Detected
Ethanol	64-17-5	0.32	1.2	1.5	21
Freon 11	75-69-4	0.19	0.73	0.91	3.0
Freon 113	76-13-1	0.24	0.99	1.2	0.47 J
Heptane	142-82-5	0.22	2.6	3.3	2.5 J
Hexachlorobutadiene	87-68-3	2.9	6.9	8.6	Not Detected
Hexane	110-54-3	0.32	2.3	2.8	22
Methylene Chloride	75-09-2	0.16	0.45	1.1	3.4
Propylbenzene	103-65-1	0.20	0.64	0.80	0.39 J
Styrene	100-42-5	0.074	0.55	0.69	3.0
Tetrahydrofuran	109-99-9	0.95	1.9	2.4	1.8 J
trans-1,3-Dichloropropene	10061-02-6	0.18	0.59	0.74	Not Detected

J = Estimated value.
J0 = Estimated value due to bias in the CCV.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	120
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	104

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	MOD BLD-SW2-20200120		
Lab ID:	2001467AR1-03B	**Date/Time Analyzed:**	1/31/20 06:24 AM
Date/Time Collected:	1/20/20 03:21 PM	**Dilution Factor:**	1.62
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013025simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.053	0.16	0.18	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.074	0.20	0.22	Not Detected
1,1,2-Trichloroethane	79-00-5	0.054	0.16	0.18	Not Detected
1,1-Dichloroethane	75-34-3	0.044	0.12	0.13	Not Detected
1,1-Dichloroethene	75-35-4	0.051	0.058	0.064	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.039	0.22	0.25	Not Detected
1,2-Dichloroethane	107-06-2	0.024	0.12	0.13	0.20
1,4-Dichlorobenzene	106-46-7	0.11	0.18	0.19	Not Detected
Benzene	71-43-2	0.15	0.16	0.26	2.0
Carbon Tetrachloride	56-23-5	0.095	0.18	0.20	0.45
Chloroethane	75-00-3	0.032	0.13	0.21	Not Detected
Chloroform	67-66-3	0.045	0.14	0.16	1.1
Chloromethane	74-87-3	0.040	0.10	1.7	1.1 J
cis-1,2-Dichloroethene	156-59-2	0.045	0.12	0.13	Not Detected
Ethyl Benzene	100-41-4	0.093	0.13	0.14	1.2
Freon 114	76-14-2	0.067	0.20	0.23	0.11 J
Freon 12	75-71-8	0.041	0.14	0.16	2.4
m,p-Xylene	108-38-3	0.16	0.21	0.28	4.4
Methyl tert-butyl ether	1634-04-4	0.051	0.18	0.58	0.11 J
Naphthalene	91-20-3	0.072	0.34	0.42	0.23 J
o-Xylene	95-47-6	0.032	0.13	0.14	1.7
Tetrachloroethene	127-18-4	0.042	0.20	0.22	0.31
Toluene	108-88-3	0.093	0.18	0.30	14
trans-1,2-Dichloroethene	156-60-5	0.049	0.19	0.64	0.20 J

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	MOD BLD-SW2-20200120		
Lab ID:	2001467AR1-03B	**Date/Time Analyzed:**	1/31/20 06:24 AM
Date/Time Collected:	1/20/20 03:21 PM	**Dilution Factor:**	1.62
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013025simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.12	0.16	0.17	Not Detected
Vinyl Chloride	75-01-4	0.032	0.037	0.041	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	120
4-Bromofluorobenzene	460-00-4	70-130	91
Toluene-d8	2037-26-5	70-130	105

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	MOD BLD-AMB1-20200120		
Lab ID:	2001467AR1-04A	**Date/Time Analyzed:**	1/31/20 05:43 AM
Date/Time Collected:	1/20/20 04:03 PM	**Dilution Factor:**	1.63
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013024R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	2.2	4.8	6.0	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.17	0.64	0.80	0.91
1,2-Dichlorobenzene	95-50-1	0.18	0.78	0.98	Not Detected
1,2-Dichloropropane	78-87-5	0.18	0.60	0.75	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.16	0.64	0.80	0.34 J
1,3-Butadiene	106-99-0	0.078	0.29	0.36	0.32 J
1,3-Dichlorobenzene	541-73-1	0.34	0.78	0.98	Not Detected
1,4-Dioxane	123-91-1	0.31	0.47	0.59	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.66	3.0	3.8	1.5 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.49	1.9	2.4	9.5
2-Hexanone	591-78-6	0.84	2.7	3.3	Not Detected
2-Propanol	67-63-0	0.22	1.6	2.0	4.8
3-Chloropropene	107-05-1	0.93	2.0	2.6	Not Detected
4-Ethyltoluene	622-96-8	0.19	0.64	0.80	1.0
4-Methyl-2-pentanone	108-10-1	0.16	0.53	0.67	0.68 J0
Acetone	67-64-1	0.65	1.5	3.9	18
alpha-Chlorotoluene	100-44-7	0.17	0.68	0.84	Not Detected
Bromodichloromethane	75-27-4	0.40	0.87	1.1	Not Detected
Bromoform	75-25-2	0.40	1.3	1.7	Not Detected
Bromomethane	74-83-9	0.55	2.5	3.2	Not Detected
Carbon Disulfide	75-15-0	0.44	2.0	2.5	1.9 J
Chlorobenzene	108-90-7	0.20	0.60	0.75	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.15	0.59	0.74	Not Detected
Cumene	98-82-8	0.12	0.64	0.80	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	MOD BLD-AMB1-20200120		
Lab ID:	2001467AR1-04A	**Date/Time Analyzed:**	1/31/20 05:43 AM
Date/Time Collected:	1/20/20 04:03 PM	**Dilution Factor:**	1.63
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013024R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.15	0.45	0.56	2.6
Dibromochloromethane	124-48-1	0.42	1.1	1.4	Not Detected
Ethanol	64-17-5	0.32	1.2	1.5	4.6
Freon 11	75-69-4	0.19	0.73	0.92	2.3
Freon 113	76-13-1	0.25	1.0	1.2	0.49 J
Heptane	142-82-5	0.23	2.7	3.3	1.9 J
Hexachlorobutadiene	87-68-3	3.0	7.0	8.7	Not Detected
Hexane	110-54-3	0.32	2.3	2.9	18
Methylene Chloride	75-09-2	0.16	0.45	1.1	2.2
Propylbenzene	103-65-1	0.20	0.64	0.80	0.29 J
Styrene	100-42-5	0.075	0.56	0.69	3.7
Tetrahydrofuran	109-99-9	0.96	1.9	2.4	6.2
trans-1,3-Dichloropropene	10061-02-6	0.18	0.59	0.74	Not Detected

J = Estimated value.
J0 = Estimated value due to bias in the CCV.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	125
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	103

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	MOD BLD-AMB1-20200120		
Lab ID:	2001467AR1-04B	**Date/Time Analyzed:**	1/31/20 05:43 AM
Date/Time Collected:	1/20/20 04:03 PM	**Dilution Factor:**	1.63
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013024simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.053	0.16	0.18	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.074	0.20	0.22	Not Detected
1,1,2-Trichloroethane	79-00-5	0.054	0.16	0.18	Not Detected
1,1-Dichloroethane	75-34-3	0.044	0.12	0.13	Not Detected
1,1-Dichloroethene	75-35-4	0.052	0.058	0.065	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.039	0.22	0.25	Not Detected
1,2-Dichloroethane	107-06-2	0.024	0.12	0.13	0.17
1,4-Dichlorobenzene	106-46-7	0.11	0.18	0.20	Not Detected
Benzene	71-43-2	0.15	0.16	0.26	1.4
Carbon Tetrachloride	56-23-5	0.095	0.18	0.20	0.44
Chloroethane	75-00-3	0.032	0.13	0.22	Not Detected
Chloroform	67-66-3	0.045	0.14	0.16	0.33
Chloromethane	74-87-3	0.040	0.10	1.7	1.0 J
cis-1,2-Dichloroethene	156-59-2	0.045	0.12	0.13	Not Detected
Ethyl Benzene	100-41-4	0.093	0.13	0.14	0.75
Freon 114	76-14-2	0.067	0.20	0.23	0.11 J
Freon 12	75-71-8	0.041	0.14	0.16	2.3
m,p-Xylene	108-38-3	0.17	0.21	0.28	2.7
Methyl tert-butyl ether	1634-04-4	0.051	0.18	0.59	0.085 J
Naphthalene	91-20-3	0.072	0.34	0.43	0.16 J
o-Xylene	95-47-6	0.032	0.13	0.14	1.0
Tetrachloroethene	127-18-4	0.042	0.20	0.22	0.20 J
Toluene	108-88-3	0.093	0.18	0.31	6.1
trans-1,2-Dichloroethene	156-60-5	0.049	0.19	0.65	0.12 J

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	MOD BLD-AMB1-20200120		
Lab ID:	2001467AR1-04B	**Date/Time Analyzed:**	1/31/20 05:43 AM
Date/Time Collected:	1/20/20 04:03 PM	**Dilution Factor:**	1.63
Media:	6 Liter Summa Canister (SIM Certified)	**Instrument/Filename:**	msdv.i / v013024simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.12	0.16	0.18	Not Detected
Vinyl Chloride	75-01-4	0.032	0.038	0.042	Not Detected

J = Estimated value.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	119
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	104

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	Lab Blank		
Lab ID:	2001467AR1-05A	**Date/Time Analyzed:**	1/30/20 12:09 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013006R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	1.3	3.0	3.7	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.11	0.39	0.49	Not Detected
1,2-Dichlorobenzene	95-50-1	0.11	0.48	0.60	Not Detected
1,2-Dichloropropane	78-87-5	0.11	0.37	0.46	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.098	0.39	0.49	Not Detected
1,3-Butadiene	106-99-0	0.048	0.18	0.22	Not Detected
1,3-Dichlorobenzene	541-73-1	0.21	0.48	0.60	Not Detected
1,4-Dioxane	123-91-1	0.19	0.29	0.36	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.41	1.9	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.30	1.2	1.5	Not Detected
2-Hexanone	591-78-6	0.52	1.6	2.0	Not Detected
2-Propanol	67-63-0	0.14	0.98	1.2	Not Detected
3-Chloropropene	107-05-1	0.57	1.2	1.6	Not Detected
4-Ethyltoluene	622-96-8	0.11	0.39	0.49	Not Detected
4-Methyl-2-pentanone	108-10-1	0.10	0.33	0.41	Not Detected
Acetone	67-64-1	0.40	0.95	2.4	Not Detected
alpha-Chlorotoluene	100-44-7	0.10	0.41	0.52	Not Detected
Bromodichloromethane	75-27-4	0.24	0.54	0.67	Not Detected
Bromoform	75-25-2	0.24	0.83	1.0	Not Detected
Bromomethane	74-83-9	0.34	1.6	1.9	Not Detected
Carbon Disulfide	75-15-0	0.27	1.2	1.6	Not Detected
Chlorobenzene	108-90-7	0.12	0.37	0.46	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.091	0.36	0.45	Not Detected
Cumene	98-82-8	0.076	0.39	0.49	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	Lab Blank		
Lab ID:	2001467AR1-05A	**Date/Time Analyzed:**	1/30/20 12:09 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013006R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.093	0.28	0.34	Not Detected
Dibromochloromethane	124-48-1	0.26	0.68	0.85	Not Detected
Ethanol	64-17-5	0.20	0.75	0.94	Not Detected
Freon 11	75-69-4	0.12	0.45	0.56	Not Detected
Freon 113	76-13-1	0.15	0.61	0.77	Not Detected
Heptane	142-82-5	0.14	1.6	2.0	Not Detected
Hexachlorobutadiene	87-68-3	1.8	4.3	5.3	Not Detected
Hexane	110-54-3	0.20	1.4	1.8	Not Detected
Methylene Chloride	75-09-2	0.10	0.28	0.69	Not Detected
Propylbenzene	103-65-1	0.12	0.39	0.49	Not Detected
Styrene	100-42-5	0.046	0.34	0.42	Not Detected
Tetrahydrofuran	109-99-9	0.59	1.2	1.5	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.11	0.36	0.45	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	105

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

eurofins | Air Toxics

Client ID:	Lab Blank		
Lab ID:	2001467AR1-05B	**Date/Time Analyzed:**	1/30/20 12:09 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013006simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.033	0.098	0.11	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.045	0.12	0.14	Not Detected
1,1,2-Trichloroethane	79-00-5	0.033	0.098	0.11	Not Detected
1,1-Dichloroethane	75-34-3	0.027	0.073	0.081	Not Detected
1,1-Dichloroethene	75-35-4	0.032	0.036	0.040	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.024	0.14	0.15	Not Detected
1,2-Dichloroethane	107-06-2	0.015	0.073	0.081	Not Detected
1,4-Dichlorobenzene	106-46-7	0.068	0.11	0.12	Not Detected
Benzene	71-43-2	0.094	0.096	0.16	Not Detected
Carbon Tetrachloride	56-23-5	0.058	0.11	0.12	Not Detected
Chloroethane	75-00-3	0.020	0.079	0.13	Not Detected
Chloroform	67-66-3	0.028	0.088	0.098	Not Detected
Chloromethane	74-87-3	0.025	0.062	1.0	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.028	0.071	0.079	Not Detected
Ethyl Benzene	100-41-4	0.057	0.078	0.087	Not Detected
Freon 114	76-14-2	0.041	0.12	0.14	Not Detected
Freon 12	75-71-8	0.025	0.089	0.099	Not Detected
m,p-Xylene	108-38-3	0.10	0.13	0.17	Not Detected
Methyl tert-butyl ether	1634-04-4	0.031	0.11	0.36	Not Detected
Naphthalene	91-20-3	0.044	0.21	0.26	Not Detected
o-Xylene	95-47-6	0.019	0.078	0.087	Not Detected
Tetrachloroethene	127-18-4	0.026	0.12	0.14	Not Detected
Toluene	108-88-3	0.057	0.11	0.19	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.030	0.12	0.40	Not Detected

Client ID:	Lab Blank		
Lab ID:	2001467AR1-05B	**Date/Time Analyzed:**	1/30/20 12:09 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013006simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.073	0.097	0.11	Not Detected
Vinyl Chloride	75-01-4	0.020	0.023	0.026	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	105

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

eurofins | Air Toxics

Client ID:	Lab Blank		
Lab ID:	2001467AR1-05C	**Date/Time Analyzed:**	1/31/20 01:42 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013107R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	1.3	3.0	3.7	Not Detected
1,2,4-Trimethylbenzene	95-63-6	0.11	0.39	0.49	Not Detected
1,2-Dichlorobenzene	95-50-1	0.11	0.48	0.60	Not Detected
1,2-Dichloropropane	78-87-5	0.11	0.37	0.46	Not Detected
1,3,5-Trimethylbenzene	108-67-8	0.098	0.39	0.49	Not Detected
1,3-Butadiene	106-99-0	0.048	0.18	0.22	Not Detected
1,3-Dichlorobenzene	541-73-1	0.21	0.48	0.60	Not Detected
1,4-Dioxane	123-91-1	0.19	0.29	0.36	Not Detected
2,2,4-Trimethylpentane	540-84-1	0.41	1.9	2.3	Not Detected
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.30	1.2	1.5	Not Detected
2-Hexanone	591-78-6	0.52	1.6	2.0	Not Detected
2-Propanol	67-63-0	0.14	0.98	1.2	Not Detected
3-Chloropropene	107-05-1	0.57	1.2	1.6	Not Detected
4-Ethyltoluene	622-96-8	0.11	0.39	0.49	Not Detected
4-Methyl-2-pentanone	108-10-1	0.10	0.33	0.41	Not Detected
Acetone	67-64-1	0.40	0.95	2.4	Not Detected
alpha-Chlorotoluene	100-44-7	0.10	0.41	0.52	Not Detected
Bromodichloromethane	75-27-4	0.24	0.54	0.67	Not Detected
Bromoform	75-25-2	0.24	0.83	1.0	Not Detected
Bromomethane	74-83-9	0.34	1.6	1.9	Not Detected
Carbon Disulfide	75-15-0	0.27	1.2	1.6	Not Detected
Chlorobenzene	108-90-7	0.12	0.37	0.46	Not Detected
cis-1,3-Dichloropropene	10061-01-5	0.091	0.36	0.45	Not Detected
Cumene	98-82-8	0.076	0.39	0.49	Not Detected

Client ID:	Lab Blank		
Lab ID:	2001467AR1-05C	**Date/Time Analyzed:**	1/31/20 01:42 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013107R1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.093	0.28	0.34	Not Detected
Dibromochloromethane	124-48-1	0.26	0.68	0.85	Not Detected
Ethanol	64-17-5	0.20	0.75	0.94	Not Detected
Freon 11	75-69-4	0.12	0.45	0.56	Not Detected
Freon 113	76-13-1	0.15	0.61	0.77	Not Detected
Heptane	142-82-5	0.14	1.6	2.0	Not Detected
Hexachlorobutadiene	87-68-3	1.8	4.3	5.3	Not Detected
Hexane	110-54-3	0.20	1.4	1.8	Not Detected
Methylene Chloride	75-09-2	0.10	0.28	0.69	0.23 J
Propylbenzene	103-65-1	0.12	0.39	0.49	Not Detected
Styrene	100-42-5	0.046	0.34	0.42	Not Detected
Tetrahydrofuran	109-99-9	0.59	1.2	1.5	Not Detected
trans-1,3-Dichloropropene	10061-02-6	0.11	0.36	0.45	Not Detected

J = Estimated value.
Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	134 Q
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	105

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

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Client ID:	Lab Blank		
Lab ID:	2001467AR1-05D	**Date/Time Analyzed:**	1/31/20 01:42 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013107simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.033	0.098	0.11	Not Detected
1,1,2,2-Tetrachloroethane	79-34-5	0.045	0.12	0.14	Not Detected
1,1,2-Trichloroethane	79-00-5	0.033	0.098	0.11	Not Detected
1,1-Dichloroethane	75-34-3	0.027	0.073	0.081	Not Detected
1,1-Dichloroethene	75-35-4	0.032	0.036	0.040	Not Detected
1,2-Dibromoethane (EDB)	106-93-4	0.024	0.14	0.15	Not Detected
1,2-Dichloroethane	107-06-2	0.015	0.073	0.081	Not Detected
1,4-Dichlorobenzene	106-46-7	0.068	0.11	0.12	Not Detected
Benzene	71-43-2	0.094	0.096	0.16	Not Detected
Carbon Tetrachloride	56-23-5	0.058	0.11	0.12	Not Detected
Chloroethane	75-00-3	0.020	0.079	0.13	Not Detected
Chloroform	67-66-3	0.028	0.088	0.098	Not Detected
Chloromethane	74-87-3	0.025	0.062	1.0	Not Detected
cis-1,2-Dichloroethene	156-59-2	0.028	0.071	0.079	Not Detected
Ethyl Benzene	100-41-4	0.057	0.078	0.087	Not Detected
Freon 114	76-14-2	0.041	0.12	0.14	Not Detected
Freon 12	75-71-8	0.025	0.089	0.099	Not Detected
m,p-Xylene	108-38-3	0.10	0.13	0.17	Not Detected
Methyl tert-butyl ether	1634-04-4	0.031	0.11	0.36	Not Detected
Naphthalene	91-20-3	0.044	0.21	0.26	0.12 J
o-Xylene	95-47-6	0.019	0.078	0.087	Not Detected
Tetrachloroethene	127-18-4	0.026	0.12	0.14	Not Detected
Toluene	108-88-3	0.057	0.11	0.19	Not Detected
trans-1,2-Dichloroethene	156-60-5	0.030	0.12	0.40	Not Detected

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	Lab Blank		
Lab ID:	2001467AR1-05D	**Date/Time Analyzed:**	1/31/20 01:42 PM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013107simR1

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	79-01-6	0.073	0.097	0.11	Not Detected
Vinyl Chloride	75-01-4	0.020	0.023	0.026	Not Detected

J = Estimated value.
Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	131 Q
4-Bromofluorobenzene	460-00-4	70-130	92
Toluene-d8	2037-26-5	70-130	106

Client ID:	CCV		
Lab ID:	2001467AR1-06A	**Date/Time Analyzed:**	1/30/20 09:25 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013002

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	78
1,2,4-Trimethylbenzene	95-63-6	97
1,2-Dichlorobenzene	95-50-1	88
1,2-Dichloropropane	78-87-5	123
1,3,5-Trimethylbenzene	108-67-8	103
1,3-Butadiene	106-99-0	112
1,3-Dichlorobenzene	541-73-1	87
1,4-Dioxane	123-91-1	116
2,2,4-Trimethylpentane	540-84-1	116
2-Butanone (Methyl Ethyl Ketone)	78-93-3	111
2-Hexanone	591-78-6	113
2-Propanol	67-63-0	122
3-Chloropropene	107-05-1	114
4-Ethyltoluene	622-96-8	105
4-Methyl-2-pentanone	108-10-1	131 Q
Acetone	67-64-1	112
alpha-Chlorotoluene	100-44-7	83
Bromodichloromethane	75-27-4	111
Bromoform	75-25-2	92
Bromomethane	74-83-9	112
Carbon Disulfide	75-15-0	116
Chlorobenzene	108-90-7	94
cis-1,3-Dichloropropene	10061-01-5	109
Cumene	98-82-8	88

Client ID:	CCV		
Lab ID:	2001467AR1-06A	**Date/Time Analyzed:**	1/30/20 09:25 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013002

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	104
Dibromochloromethane	124-48-1	99
Ethanol	64-17-5	108
Freon 11	75-69-4	107
Freon 113	76-13-1	89
Heptane	142-82-5	125
Hexachlorobutadiene	87-68-3	79
Hexane	110-54-3	114
Methylene Chloride	75-09-2	106
Propylbenzene	103-65-1	99
Styrene	100-42-5	90
Tetrahydrofuran	109-99-9	125
trans-1,3-Dichloropropene	10061-02-6	106

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	87
Toluene-d8	2037-26-5	70-130	108

Client ID:	CCV		
Lab ID:	2001467AR1-06B	**Date/Time Analyzed:**	1/30/20 09:25 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013002sim

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	99
1,1,2,2-Tetrachloroethane	79-34-5	102
1,1,2-Trichloroethane	79-00-5	102
1,1-Dichloroethane	75-34-3	115
1,1-Dichloroethene	75-35-4	91
1,2-Dibromoethane (EDB)	106-93-4	96
1,2-Dichloroethane	107-06-2	119
1,4-Dichlorobenzene	106-46-7	75
Benzene	71-43-2	106
Carbon Tetrachloride	56-23-5	114
Chloroethane	75-00-3	116
Chloroform	67-66-3	106
Chloromethane	74-87-3	113
cis-1,2-Dichloroethene	156-59-2	98
Ethyl Benzene	100-41-4	88
Freon 114	76-14-2	89
Freon 12	75-71-8	100
m,p-Xylene	108-38-3	79
Methyl tert-butyl ether	1634-04-4	104
Naphthalene	91-20-3	72
o-Xylene	95-47-6	80
Tetrachloroethene	127-18-4	84
Toluene	108-88-3	95
trans-1,2-Dichloroethene	156-60-5	99

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	CCV		
Lab ID:	2001467AR1-06B	**Date/Time Analyzed:**	1/30/20 09:25 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013002sim

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	93
Vinyl Chloride	75-01-4	104

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	83
Toluene-d8	2037-26-5	70-130	109

Client ID:	CCV		
Lab ID:	2001467AR1-06C	**Date/Time Analyzed:**	1/31/20 08:45 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013102

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	82
1,2,4-Trimethylbenzene	95-63-6	98
1,2-Dichlorobenzene	95-50-1	89
1,2-Dichloropropane	78-87-5	119
1,3,5-Trimethylbenzene	108-67-8	104
1,3-Butadiene	106-99-0	113
1,3-Dichlorobenzene	541-73-1	89
1,4-Dioxane	123-91-1	112
2,2,4-Trimethylpentane	540-84-1	116
2-Butanone (Methyl Ethyl Ketone)	78-93-3	109
2-Hexanone	591-78-6	117
2-Propanol	67-63-0	121
3-Chloropropene	107-05-1	110
4-Ethyltoluene	622-96-8	107
4-Methyl-2-pentanone	108-10-1	131 Q
Acetone	67-64-1	110
alpha-Chlorotoluene	100-44-7	87
Bromodichloromethane	75-27-4	110
Bromoform	75-25-2	93
Bromomethane	74-83-9	114
Carbon Disulfide	75-15-0	113
Chlorobenzene	108-90-7	95
cis-1,3-Dichloropropene	10061-01-5	106
Cumene	98-82-8	91

Client ID:	CCV		
Lab ID:	2001467AR1-06C	**Date/Time Analyzed:**	1/31/20 08:45 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013102

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	101
Dibromochloromethane	124-48-1	99
Ethanol	64-17-5	109
Freon 11	75-69-4	103
Freon 113	76-13-1	86
Heptane	142-82-5	124
Hexachlorobutadiene	87-68-3	82
Hexane	110-54-3	112
Methylene Chloride	75-09-2	104
Propylbenzene	103-65-1	101
Styrene	100-42-5	91
Tetrahydrofuran	109-99-9	125
trans-1,3-Dichloropropene	10061-02-6	106

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	86
Toluene-d8	2037-26-5	70-130	107

Client ID:	CCV		
Lab ID:	2001467AR1-06D	**Date/Time Analyzed:**	1/31/20 08:45 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013102sim

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	98
1,1,2,2-Tetrachloroethane	79-34-5	102
1,1,2-Trichloroethane	79-00-5	101
1,1-Dichloroethane	75-34-3	114
1,1-Dichloroethene	75-35-4	91
1,2-Dibromoethane (EDB)	106-93-4	96
1,2-Dichloroethane	107-06-2	117
1,4-Dichlorobenzene	106-46-7	76
Benzene	71-43-2	105
Carbon Tetrachloride	56-23-5	113
Chloroethane	75-00-3	118
Chloroform	67-66-3	106
Chloromethane	74-87-3	117
cis-1,2-Dichloroethene	156-59-2	98
Ethyl Benzene	100-41-4	89
Freon 114	76-14-2	90
Freon 12	75-71-8	103
m,p-Xylene	108-38-3	80
Methyl tert-butyl ether	1634-04-4	104
Naphthalene	91-20-3	74
o-Xylene	95-47-6	82
Tetrachloroethene	127-18-4	84
Toluene	108-88-3	95
trans-1,2-Dichloroethene	156-60-5	98

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Tacoma MOD Building

Client ID:	CCV		
Lab ID:	2001467AR1-06D	**Date/Time Analyzed:**	1/31/20 08:45 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013102sim

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	92
Vinyl Chloride	75-01-4	108

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	117
4-Bromofluorobenzene	460-00-4	70-130	83
Toluene-d8	2037-26-5	70-130	109

Client ID:	LCS		
Lab ID:	2001467AR1-07A	**Date/Time Analyzed:**	1/30/20 10:06 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013003

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	78
1,2,4-Trimethylbenzene	95-63-6	94
1,2-Dichlorobenzene	95-50-1	80
1,2-Dichloropropane	78-87-5	116
1,3,5-Trimethylbenzene	108-67-8	98
1,3-Butadiene	106-99-0	106
1,3-Dichlorobenzene	541-73-1	78
1,4-Dioxane	123-91-1	112
2,2,4-Trimethylpentane	540-84-1	108
2-Butanone (Methyl Ethyl Ketone)	78-93-3	106
2-Hexanone	591-78-6	114
2-Propanol	67-63-0	114
3-Chloropropene	107-05-1	101
4-Ethyltoluene	622-96-8	102
4-Methyl-2-pentanone	108-10-1	124
Acetone	67-64-1	111
alpha-Chlorotoluene	100-44-7	85
Bromodichloromethane	75-27-4	108
Bromoform	75-25-2	89
Bromomethane	74-83-9	109
Carbon Disulfide	75-15-0	110
Chlorobenzene	108-90-7	90
cis-1,3-Dichloropropene	10061-01-5	110
Cumene	98-82-8	82

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCS		
Lab ID:	2001467AR1-07A	**Date/Time Analyzed:**	1/30/20 10:06 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013003

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	99
Dibromochloromethane	124-48-1	96
Ethanol	64-17-5	105
Freon 11	75-69-4	102
Freon 113	76-13-1	82
Heptane	142-82-5	116
Hexachlorobutadiene	87-68-3	78
Hexane	110-54-3	108
Methylene Chloride	75-09-2	99
Propylbenzene	103-65-1	93
Styrene	100-42-5	83
Tetrahydrofuran	109-99-9	118
trans-1,3-Dichloropropene	10061-02-6	100

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	112
4-Bromofluorobenzene	460-00-4	70-130	82
Toluene-d8	2037-26-5	70-130	106

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCSD		
Lab ID:	2001467AR1-07AA	**Date/Time Analyzed:**	1/30/20 10:47 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013004

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	66 Q
1,2,4-Trimethylbenzene	95-63-6	95
1,2-Dichlorobenzene	95-50-1	80
1,2-Dichloropropane	78-87-5	117
1,3,5-Trimethylbenzene	108-67-8	99
1,3-Butadiene	106-99-0	102
1,3-Dichlorobenzene	541-73-1	80
1,4-Dioxane	123-91-1	113
2,2,4-Trimethylpentane	540-84-1	109
2-Butanone (Methyl Ethyl Ketone)	78-93-3	105
2-Hexanone	591-78-6	118
2-Propanol	67-63-0	113
3-Chloropropene	107-05-1	100
4-Ethyltoluene	622-96-8	104
4-Methyl-2-pentanone	108-10-1	129
Acetone	67-64-1	108
alpha-Chlorotoluene	100-44-7	89
Bromodichloromethane	75-27-4	109
Bromoform	75-25-2	92
Bromomethane	74-83-9	106
Carbon Disulfide	75-15-0	109
Chlorobenzene	108-90-7	93
cis-1,3-Dichloropropene	10061-01-5	112
Cumene	98-82-8	86

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCSD		
Lab ID:	2001467AR1-07AA	**Date/Time Analyzed:**	1/30/20 10:47 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013004

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	98
Dibromochloromethane	124-48-1	97
Ethanol	64-17-5	102
Freon 11	75-69-4	101
Freon 113	76-13-1	81
Heptane	142-82-5	119
Hexachlorobutadiene	87-68-3	73
Hexane	110-54-3	106
Methylene Chloride	75-09-2	97
Propylbenzene	103-65-1	96
Styrene	100-42-5	87
Tetrahydrofuran	109-99-9	117
trans-1,3-Dichloropropene	10061-02-6	103

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	110
4-Bromofluorobenzene	460-00-4	70-130	85
Toluene-d8	2037-26-5	70-130	108

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCS		
Lab ID:	2001467AR1-07B	**Date/Time Analyzed:**	1/30/20 10:06 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013003sim

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	94
1,1,2,2-Tetrachloroethane	79-34-5	100
1,1,2-Trichloroethane	79-00-5	101
1,1-Dichloroethane	75-34-3	105
1,1-Dichloroethene	75-35-4	85
1,2-Dibromoethane (EDB)	106-93-4	95
1,2-Dichloroethane	107-06-2	110
1,4-Dichlorobenzene	106-46-7	71
Benzene	71-43-2	98
Carbon Tetrachloride	56-23-5	76
Chloroethane	75-00-3	113
Chloroform	67-66-3	100
Chloromethane	74-87-3	110
cis-1,2-Dichloroethene	156-59-2	84
Ethyl Benzene	100-41-4	84
Freon 114	76-14-2	86
Freon 12	75-71-8	97
m,p-Xylene	108-38-3	72
Methyl tert-butyl ether	1634-04-4	96
Naphthalene	91-20-3	84
o-Xylene	95-47-6	73
Tetrachloroethene	127-18-4	82
Toluene	108-88-3	88
trans-1,2-Dichloroethene	156-60-5	101

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	LCS		
Lab ID:	2001467AR1-07B	**Date/Time Analyzed:**	1/30/20 10:06 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013003sim

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	89
Vinyl Chloride	75-01-4	103

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	80
Toluene-d8	2037-26-5	70-130	107

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCSD		
Lab ID:	2001467AR1-07BB	**Date/Time Analyzed:**	1/30/20 10:47 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013004sim

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	96
1,1,2,2-Tetrachloroethane	79-34-5	101
1,1,2-Trichloroethane	79-00-5	101
1,1-Dichloroethane	75-34-3	108
1,1-Dichloroethene	75-35-4	88
1,2-Dibromoethane (EDB)	106-93-4	95
1,2-Dichloroethane	107-06-2	110
1,4-Dichlorobenzene	106-46-7	71
Benzene	71-43-2	98
Carbon Tetrachloride	56-23-5	78
Chloroethane	75-00-3	114
Chloroform	67-66-3	102
Chloromethane	74-87-3	112
cis-1,2-Dichloroethene	156-59-2	86
Ethyl Benzene	100-41-4	88
Freon 114	76-14-2	88
Freon 12	75-71-8	98
m,p-Xylene	108-38-3	76
Methyl tert-butyl ether	1634-04-4	99
Naphthalene	91-20-3	65
o-Xylene	95-47-6	76
Tetrachloroethene	127-18-4	83
Toluene	108-88-3	90
trans-1,2-Dichloroethene	156-60-5	103

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	LCSD		
Lab ID:	2001467AR1-07BB	**Date/Time Analyzed:**	1/30/20 10:47 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013004sim

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	90
Vinyl Chloride	75-01-4	104

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	82
Toluene-d8	2037-26-5	70-130	107

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCS		
Lab ID:	2001467AR1-07C	**Date/Time Analyzed:**	1/31/20 10:07 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013104

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	62 Q
1,2,4-Trimethylbenzene	95-63-6	92
1,2-Dichlorobenzene	95-50-1	78
1,2-Dichloropropane	78-87-5	112
1,3,5-Trimethylbenzene	108-67-8	96
1,3-Butadiene	106-99-0	104
1,3-Dichlorobenzene	541-73-1	79
1,4-Dioxane	123-91-1	108
2,2,4-Trimethylpentane	540-84-1	108
2-Butanone (Methyl Ethyl Ketone)	78-93-3	105
2-Hexanone	591-78-6	118
2-Propanol	67-63-0	113
3-Chloropropene	107-05-1	101
4-Ethyltoluene	622-96-8	103
4-Methyl-2-pentanone	108-10-1	122
Acetone	67-64-1	107
alpha-Chlorotoluene	100-44-7	87
Bromodichloromethane	75-27-4	107
Bromoform	75-25-2	89
Bromomethane	74-83-9	106
Carbon Disulfide	75-15-0	109
Chlorobenzene	108-90-7	91
cis-1,3-Dichloropropene	10061-01-5	106
Cumene	98-82-8	83

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCS		
Lab ID:	2001467AR1-07C	**Date/Time Analyzed:**	1/31/20 10:07 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013104

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	98
Dibromochloromethane	124-48-1	96
Ethanol	64-17-5	105
Freon 11	75-69-4	99
Freon 113	76-13-1	81
Heptane	142-82-5	113
Hexachlorobutadiene	87-68-3	65 Q
Hexane	110-54-3	107
Methylene Chloride	75-09-2	97
Propylbenzene	103-65-1	94
Styrene	100-42-5	86
Tetrahydrofuran	109-99-9	117
trans-1,3-Dichloropropene	10061-02-6	101

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	84
Toluene-d8	2037-26-5	70-130	105

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCSD		
Lab ID:	2001467AR1-07CC	**Date/Time Analyzed:**	1/31/20 11:38 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013105

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	63 Q
1,2,4-Trimethylbenzene	95-63-6	93
1,2-Dichlorobenzene	95-50-1	84
1,2-Dichloropropane	78-87-5	112
1,3,5-Trimethylbenzene	108-67-8	108
1,3-Butadiene	106-99-0	104
1,3-Dichlorobenzene	541-73-1	84
1,4-Dioxane	123-91-1	108
2,2,4-Trimethylpentane	540-84-1	114
2-Butanone (Methyl Ethyl Ketone)	78-93-3	108
2-Hexanone	591-78-6	119
2-Propanol	67-63-0	115
3-Chloropropene	107-05-1	105
4-Ethyltoluene	622-96-8	98
4-Methyl-2-pentanone	108-10-1	127
Acetone	67-64-1	108
alpha-Chlorotoluene	100-44-7	94
Bromodichloromethane	75-27-4	103
Bromoform	75-25-2	90
Bromomethane	74-83-9	112
Carbon Disulfide	75-15-0	110
Chlorobenzene	108-90-7	92
cis-1,3-Dichloropropene	10061-01-5	108
Cumene	98-82-8	88

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	LCSD		
Lab ID:	2001467AR1-07CC	**Date/Time Analyzed:**	1/31/20 11:38 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013105

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	99
Dibromochloromethane	124-48-1	92
Ethanol	64-17-5	102
Freon 11	75-69-4	102
Freon 113	76-13-1	83
Heptane	142-82-5	118
Hexachlorobutadiene	87-68-3	64 Q
Hexane	110-54-3	110
Methylene Chloride	75-09-2	98
Propylbenzene	103-65-1	98
Styrene	100-42-5	92
Tetrahydrofuran	109-99-9	118
trans-1,3-Dichloropropene	10061-02-6	99

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	87
Toluene-d8	2037-26-5	70-130	108

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCS		
Lab ID:	2001467AR1-07D	**Date/Time Analyzed:**	1/31/20 10:07 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013104sim

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	93
1,1,2,2-Tetrachloroethane	79-34-5	98
1,1,2-Trichloroethane	79-00-5	100
1,1-Dichloroethane	75-34-3	105
1,1-Dichloroethene	75-35-4	86
1,2-Dibromoethane (EDB)	106-93-4	94
1,2-Dichloroethane	107-06-2	108
1,4-Dichlorobenzene	106-46-7	69 Q
Benzene	71-43-2	96
Carbon Tetrachloride	56-23-5	75
Chloroethane	75-00-3	111
Chloroform	67-66-3	99
Chloromethane	74-87-3	110
cis-1,2-Dichloroethene	156-59-2	83
Ethyl Benzene	100-41-4	84
Freon 114	76-14-2	86
Freon 12	75-71-8	96
m,p-Xylene	108-38-3	73
Methyl tert-butyl ether	1634-04-4	96
Naphthalene	91-20-3	65
o-Xylene	95-47-6	74
Tetrachloroethene	127-18-4	81
Toluene	108-88-3	88
trans-1,2-Dichloroethene	156-60-5	100

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	LCS		
Lab ID:	2001467AR1-07D	**Date/Time Analyzed:**	1/31/20 10:07 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013104sim

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	88
Vinyl Chloride	75-01-4	102

Q = Exceeds Quality Control limits.
D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	114
4-Bromofluorobenzene	460-00-4	70-130	81
Toluene-d8	2037-26-5	70-130	107

* % Recovery is calculated using unrounded analytical results.

Client ID:	LCSD		
Lab ID:	2001467AR1-07DD	**Date/Time Analyzed:**	1/31/20 11:38 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013105sim

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	94
1,1,2,2-Tetrachloroethane	79-34-5	98
1,1,2-Trichloroethane	79-00-5	97
1,1-Dichloroethane	75-34-3	106
1,1-Dichloroethene	75-35-4	85
1,2-Dibromoethane (EDB)	106-93-4	92
1,2-Dichloroethane	107-06-2	108
1,4-Dichlorobenzene	106-46-7	73
Benzene	71-43-2	96
Carbon Tetrachloride	56-23-5	77
Chloroethane	75-00-3	114
Chloroform	67-66-3	101
Chloromethane	74-87-3	110
cis-1,2-Dichloroethene	156-59-2	84
Ethyl Benzene	100-41-4	88
Freon 114	76-14-2	85
Freon 12	75-71-8	97
m,p-Xylene	108-38-3	78
Methyl tert-butyl ether	1634-04-4	98
Naphthalene	91-20-3	65
o-Xylene	95-47-6	81
Tetrachloroethene	127-18-4	80
Toluene	108-88-3	90
trans-1,2-Dichloroethene	156-60-5	101

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN
Tacoma MOD Building

Client ID:	LCSD		
Lab ID:	2001467AR1-07DD	**Date/Time Analyzed:**	1/31/20 11:38 AM
Date/Time Collected:	NA - Not Applicable	**Dilution Factor:**	1.00
Media:	NA - Not Applicable	**Instrument/Filename:**	msdv.i / v013105sim

Compound	CAS#	%Recovery
Trichloroethene	79-01-6	87
Vinyl Chloride	75-01-4	104

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	116
4-Bromofluorobenzene	460-00-4	70-130	86
Toluene-d8	2037-26-5	70-130	109

* % Recovery is calculated using unrounded analytical results.

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2/3/2020
Mr. Bill Beck
Stericycle Environmental Solutions, Inc.
18000 72nd Ave. S
Suite 217
Kent WA 98032

Project Name: Tacoma MOD Building
Project #:
Workorder #: 2001467B

Dear Mr. Bill Beck

The following report includes the data for the above referenced project for sample(s) received on 1/21/2020 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 APH 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 Inc. 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: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kelly Buettner

Project Manager

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WORK ORDER #: 2001467B

Work Order Summary

CLIENT:	Mr. Bill Beck Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032	**BILL TO:**	Mr. Duane Beery Stericycle Environmental Solutions, Inc. 18000 72nd Ave. S Suite 217 Kent, WA 98032
PHONE:	425-227-6149	**P.O. #**	
FAX:		**PROJECT #**	Tacoma MOD Building
DATE RECEIVED:	01/21/2020	**CONTACT:**	Kelly Buettner
DATE COMPLETED:	02/03/2020		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	MOD BLD-NE-20200120	Modified TO-15 APH	4.9 "Hg	5 psi
01B	MOD BLD-NE-20200120	Modified TO-15 APH	4.9 "Hg	5 psi
02A	MOD BLD-SW1-20200120	Modified TO-15 APH	5.5 "Hg	5.2 psi
02B	MOD BLD-SW1-20200120	Modified TO-15 APH	5.5 "Hg	5.2 psi
03A	MOD BLD-SW2-20200120	Modified TO-15 APH	5.1 "Hg	5.1 psi
03B	MOD BLD-SW2-20200120	Modified TO-15 APH	5.1 "Hg	5.1 psi
04A	MOD BLD-AMB1-20200120	Modified TO-15 APH	5.1 "Hg	5.2 psi
04B	MOD BLD-AMB1-20200120	Modified TO-15 APH	5.1 "Hg	5.2 psi
05A	Lab Blank	Modified TO-15 APH	NA	NA
05B	Lab Blank	Modified TO-15 APH	NA	NA
06A	CCV	Modified TO-15 APH	NA	NA
06B	CCV	Modified TO-15 APH	NA	NA

CERTIFIED BY:  DATE: 02/03/20

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.
Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 351-8279

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Stericycle Environmental Solutions, Inc.
Workorder# 2001467B

Four 6 Liter Summa Canister (SIM Certified) samples were received on January 21, 2020. 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.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=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 </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=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

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

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

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

Client Sample ID: MOD BLD-NE-20200120

Lab ID#: 2001467B-01A

No Detections Were Found.

Client Sample ID: MOD BLD-NE-20200120

Lab ID#: 2001467B-01B

No Detections Were Found.

Client Sample ID: MOD BLD-SW1-20200120

Lab ID#: 2001467B-02A

No Detections Were Found.

Client Sample ID: MOD BLD-SW1-20200120

Lab ID#: 2001467B-02B

No Detections Were Found.

Client Sample ID: MOD BLD-SW2-20200120

Lab ID#: 2001467B-03A

No Detections Were Found.

Client Sample ID: MOD BLD-SW2-20200120

Lab ID#: 2001467B-03B

No Detections Were Found.

Client Sample ID: MOD BLD-AMB1-20200120

Lab ID#: 2001467B-04A

No Detections Were Found.

Client Sample ID: MOD BLD-AMB1-20200120

Lab ID#: 2001467B-04B

No Detections Were Found.

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Client Sample ID: MOD BLD-NE-20200120

Lab ID#: 2001467B-01A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012729a**	**Date of Collection: 1/20/20 3:45:00 PM**	
Dil. Factor:	**1.60**	**Date of Analysis: 1/28/20 09:26 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	Not Detected	52	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	16	Not Detected	66	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	16	Not Detected	93	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	16	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-NE-20200120

Lab ID#: 2001467B-01B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012729c**	**Date of Collection: 1/20/20 3:45:00 PM**	
Dil. Factor:	**1.60**	**Date of Analysis: 1/28/20 09:26 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	16	Not Detected	79	Not Detected
>C10-C12 Aromatic Hydrocarbons	16	Not Detected	88	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-SW1-20200120

Lab ID#: 2001467B-02A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012724a**	**Date of Collection: 1/20/20 3:21:00 PM**	
Dil. Factor:	**1.66**	**Date of Analysis: 1/27/20 11:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	17	Not Detected	54	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	17	Not Detected	68	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	17	Not Detected	97	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	17	Not Detected	120	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-SW1-20200120

Lab ID#: 2001467B-02B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012724c**	**Date of Collection: 1/20/20 3:21:00 PM**	
Dil. Factor:	**1.66**	**Date of Analysis: 1/27/20 11:21 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	17	Not Detected	82	Not Detected
>C10-C12 Aromatic Hydrocarbons	17	Not Detected	91	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-SW2-20200120

Lab ID#: 2001467B-03A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012725a**	**Date of Collection: 1/20/20 3:21:00 PM**	
Dil. Factor:	**1.62**	**Date of Analysis: 1/27/20 11:47 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	Not Detected	52	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	16	Not Detected	66	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	16	Not Detected	94	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	16	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-SW2-20200120

Lab ID#: 2001467B-03B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012725c**	**Date of Collection: 1/20/20 3:21:00 PM**	
Dil. Factor:	**1.62**	**Date of Analysis: 1/27/20 11:47 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	16	Not Detected	80	Not Detected
>C10-C12 Aromatic Hydrocarbons	16	Not Detected	89	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-AMB1-20200120

Lab ID#: 2001467B-04A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012726a**	**Date of Collection: 1/20/20 4:03:00 PM**	
Dil. Factor:	**1.63**	**Date of Analysis: 1/28/20 12:14 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	16	Not Detected	53	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	16	Not Detected	67	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	16	Not Detected	95	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	16	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: MOD BLD-AMB1-20200120

Lab ID#: 2001467B-04B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012726c**	**Date of Collection: 1/20/20 4:03:00 PM**	
Dil. Factor:	**1.63**	**Date of Analysis: 1/28/20 12:14 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	16	Not Detected	80	Not Detected
>C10-C12 Aromatic Hydrocarbons	16	Not Detected	89	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: Lab Blank

Lab ID#: 2001467B-05A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012708a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/20 01:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	10	Not Detected	32	Not Detected
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	10	Not Detected	41	Not Detected
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	10	Not Detected	58	Not Detected
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	10	Not Detected	70	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 2001467B-05B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012708c**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/20 01:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
>C8-C10 Aromatic Hydrocarbons	10	Not Detected	49	Not Detected
>C10-C12 Aromatic Hydrocarbons	10	Not Detected	55	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2001467B-06A

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012707a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/20 01:13 PM**	

Compound	%Recovery
C5-C6 Aliphatic Hydrocarbons (ref. to Pentane + Hexane)	99
>C6-C8 Aliphatic Hydrocarbons (ref. to Heptane)	99
>C8-C10 Aliphatic Hydrocarbons (ref. to Decane)	101
>C10-C12 Aliphatic Hydrocarbons (ref. to Dodecane)	106

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 2001467B-06B

MODIFIED METHOD TO-15 GC/MS FULL SCAN

File Name:	**a012707c**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/27/20 01:13 PM**

Compound	%Recovery
>C8-C10 Aromatic Hydrocarbons	102
>C10-C12 Aromatic Hydrocarbons	108

Container Type: NA - Not Applicable

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Analysis Request /Canister Chain of Custody

For Laboratory Use Only

PID: _____ Workorder #: 2001467

180 Blue Ravine Rd. Suite B, Folsom, CA 95630
Phone (800) 985-5955; Fax (916) 351-8279

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Client: Stericycle
Project Name: Tacoma MOD Building
Project Manager: Tasya Gray Project #
Sampler: James McKechnie
Site Name: Stericycle Tacoma

Special Instructions/Notes:

Turnaround Time (Rush surcharges may apply)
Standard _____ Rush _____(specify)

Lab ID	Field Sample Identification(Location)	Can #	Flow Controller #	Start Sampling Information Date	Start Sampling Information Time	Stop Sampling Information Date	Stop Sampling Information Time	Canister Vacuum/Pressure Initial (in Hg)	Canister Vacuum/Pressure Final (in Hg)	Lab Use Only Receipt	Lab Use Only Final (psig) Gas: N_2 / He	Requested Analyses APH by TO-15	Requested Analyses VOC's by TO-15	Requested Analyses Naphthalene by TO-15
01A	MOD BLD-NE-20200120	660022	23319	1-20-20	0745	1-20-20	1545	-29.5	-5.5			X	X	X
02A	MOD BLD-SW1-20200120	N1704	23428	↓	0757	↓	1521	-29.5	-6.5			X	X	X
03A	MOD BLD-SW2-20200120	N0411	23262	↓	0757	↓	1521	-29.0	-5.5			X	X	X
04A	MOD BLD-AMB1-20200120	N0446	23476	↓	0803	↓	1603	-29.5	-6.0			X	X	X

Relinquished by: (Signature/Affiliation)	Date	Time	Received by: (Signature/Affiliation)	Date	Time
[signature]	1-20-20	1640	Fed Ex		
Fed Ex			[signature] TAT	01/21/20	0915

Lab Use Only

Shipper Name: FedEx | Custody Seals Intact? | Yes | No | None

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