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LABORATORY REPORT

August 28, 2017

Stephanie Madden
RAPCA
117 S Main Street
Dayton, OH 45422

RE: Community Air Toxics Monitoring 2017 / 2017-1

Dear Stephanie:

Enclosed are the results of the samples submitted to our laboratory on August 23, 2017. For your reference, these analyses have been assigned our service request number P1704111.

All analyses were performed according to our laboratory's NELAP and DoD-ELAP-approved quality assurance program. The test results meet requirements of the current NELAP and DoD-ELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP and DoD-ELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

ALS | Environmental

By Kate Kaneko at 2:24 pm, 08/28/17

Kate Kaneko
Project Manager



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Client: RAPCA
Project: Community Air Toxics Monitoring 2017 / 2017-1

Service Request No: P1704111

CASE NARRATIVE

The samples were received intact under chain of custody on August 23, 2017 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Sulfur Analysis

The samples were analyzed for twenty sulfur compounds per ASTM D 5504-12 using a gas chromatograph equipped with a sulfur chemiluminescence detector (SCD). All compounds with the exception of hydrogen sulfide and carbonyl sulfide are quantitated against the initial calibration curve for methyl mercaptan. This method is included on the laboratory's NELAP scope of accreditation, however it is not part of the DoD-ELAP accreditation.

Volatile Organic Compound Analysis

The samples were also analyzed for volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. This procedure is described in laboratory SOP VOA-TO15. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator. This method is included on the laboratory's NELAP and DoD-ELAP scope of accreditation. Any analytes flagged with an X are not included on the NELAP or DoD-ELAP accreditation.

The containers were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Please note, projects which require reporting below the MRL could have results between the MRL and method detection limit (MDL) that are biased high.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.



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ALS Environmental – Simi Valley

CERTIFICATIONS, ACCREDITATIONS, AND REGISTRATIONS

Agency	Web Site	Number
Arizona DHS	http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home	AZ0694
Florida DOH (NELAP)	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E871020
Louisiana DEQ (NELAP)	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	05071
Maine DHHS	http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm	2016036
Minnesota DOH (NELAP)	http://www.health.state.mn.us/accreditation	1177034
New Jersey DEP (NELAP)	http://www.nj.gov/dep/oqa/	CA009
New York DOH (NELAP)	http://www.wadsworth.org/labcert/elap/elap.html	11221
Oregon PHD (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	4068-004
Pennsylvania DEP	http://www.depweb.state.pa.us/labs	68-03307 (Registration)
PJLA (DoD ELAP)	http://www.pjlabs.com/search-accredited-labs	65818 (Testing)
Texas CEQ (NELAP)	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704413-17-8
Utah DOH (NELAP)	http://health.utah.gov/lab/environmental-lab-certification/	CA01627201 7-8
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C946

Analyses were performed according to our laboratory's NELAP and DoD-ELAP approved quality assurance program. A complete listing of specific NELAP and DoD-ELAP certified analytes can be found in the certifications section at www.alsglobal.com, or at the accreditation body's website.

Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact the laboratory for information corresponding to a particular certification.

ALS ENVIRONMENTAL

DETAIL SUMMARY REPORT

Client: RAPCA
 Project ID: Community Air Toxics Monitoring 2017 / 2017-1

Service Request: P1704111

Date Received: 8/23/2017
 Time Received: 09:30

ASTM D 5504-12 - Sulfur Can
TO-15 - VOC Cans

Client Sample ID	Lab Code	Matrix	Date Collected	Time Collected	Container ID	Pi1 (psig)	Pf1 (psig)	ASTM D 5504-12 - Sulfur Can	TO-15 - VOC Cans
Can A - 081717	P1704111-001	Air	8/18/2017	08:17	AS00514	-3.30	3.69	X	X
Can B - 081717	P1704111-002	Air	8/18/2017	08:32	AS00890	-4.76	3.62	X	X

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: RAPCA
Client Sample ID: Can A - 081717
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111
 ALS Sample ID: P1704111-001

Test Code: ASTM D 5504-12
 Instrument ID: Agilent 7890A/GC22/SCD
 Analyst: Mike Conejo
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00514

Date Collected: 8/18/17
 Time Collected: 08:17
 Date Received: 8/23/17
 Date Analyzed: 8/24/17
 Time Analyzed: 09:59
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -3.30 Final Pressure (psig): 3.69

Container Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	11	ND	8.1	
463-58-1	Carbonyl Sulfide	ND	20	ND	8.1	
74-93-1	Methyl Mercaptan	ND	16	ND	8.1	
75-08-1	Ethyl Mercaptan	ND	20	ND	8.1	
75-18-3	Dimethyl Sulfide	ND	20	ND	8.1	
75-15-0	Carbon Disulfide	ND	13	ND	4.0	
75-33-2	Isopropyl Mercaptan	ND	25	ND	8.1	
75-66-1	tert-Butyl Mercaptan	ND	30	ND	8.1	
107-03-9	n-Propyl Mercaptan	ND	25	ND	8.1	
624-89-5	Ethyl Methyl Sulfide	ND	25	ND	8.1	
110-02-1	Thiophene	ND	28	ND	8.1	
513-44-0	Isobutyl Mercaptan	ND	30	ND	8.1	
352-93-2	Diethyl Sulfide	ND	30	ND	8.1	
109-79-5	n-Butyl Mercaptan	ND	30	ND	8.1	
624-92-0	Dimethyl Disulfide	ND	16	ND	4.0	
616-44-4	3-Methylthiophene	ND	32	ND	8.1	
110-01-0	Tetrahydrothiophene	ND	29	ND	8.1	
638-02-8	2,5-Dimethylthiophene	ND	37	ND	8.1	
872-55-9	2-Ethylthiophene	ND	37	ND	8.1	
110-81-6	Diethyl Disulfide	ND	20	ND	4.0	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: RAPCA
Client Sample ID: Can B - 081717
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111
 ALS Sample ID: P1704111-002

Test Code: ASTM D 5504-12
 Instrument ID: Agilent 7890A/GC22/SCD
 Analyst: Mike Conejo
 Sample Type: 6.0 L Silonite Canister
 Test Notes:
 Container ID: AS00890

Date Collected: 8/18/17
 Time Collected: 08:32
 Date Received: 8/23/17
 Date Analyzed: 8/24/17
 Time Analyzed: 10:19
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -4.76 Final Pressure (psig): 3.62

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	13	ND	9.2	
463-58-1	Carbonyl Sulfide	ND	23	ND	9.2	
74-93-1	Methyl Mercaptan	ND	18	ND	9.2	
75-08-1	Ethyl Mercaptan	ND	23	ND	9.2	
75-18-3	Dimethyl Sulfide	ND	23	ND	9.2	
75-15-0	Carbon Disulfide	ND	14	ND	4.6	
75-33-2	Isopropyl Mercaptan	ND	29	ND	9.2	
75-66-1	tert-Butyl Mercaptan	ND	34	ND	9.2	
107-03-9	n-Propyl Mercaptan	ND	29	ND	9.2	
624-89-5	Ethyl Methyl Sulfide	ND	29	ND	9.2	
110-02-1	Thiophene	ND	32	ND	9.2	
513-44-0	Isobutyl Mercaptan	ND	34	ND	9.2	
352-93-2	Diethyl Sulfide	ND	34	ND	9.2	
109-79-5	n-Butyl Mercaptan	ND	34	ND	9.2	
624-92-0	Dimethyl Disulfide	ND	18	ND	4.6	
616-44-4	3-Methylthiophene	ND	37	ND	9.2	
110-01-0	Tetrahydrothiophene	ND	33	ND	9.2	
638-02-8	2,5-Dimethylthiophene	ND	42	ND	9.2	
872-55-9	2-Ethylthiophene	ND	42	ND	9.2	
110-81-6	Diethyl Disulfide	ND	23	ND	4.6	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: RAPCA
Client Sample ID: Method Blank
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111
 ALS Sample ID: P170824-MB

Test Code: ASTM D 5504-12
 Instrument ID: Agilent 7890A/GC22/SCD
 Analyst: Mike Conejo
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Time Collected: NA
 Date Received: NA
 Date Analyzed: 8/24/17
 Time Analyzed: 08:22
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	7.0	ND	5.0	
463-58-1	Carbonyl Sulfide	ND	12	ND	5.0	
74-93-1	Methyl Mercaptan	ND	9.8	ND	5.0	
75-08-1	Ethyl Mercaptan	ND	13	ND	5.0	
75-18-3	Dimethyl Sulfide	ND	13	ND	5.0	
75-15-0	Carbon Disulfide	ND	7.8	ND	2.5	
75-33-2	Isopropyl Mercaptan	ND	16	ND	5.0	
75-66-1	tert-Butyl Mercaptan	ND	18	ND	5.0	
107-03-9	n-Propyl Mercaptan	ND	16	ND	5.0	
624-89-5	Ethyl Methyl Sulfide	ND	16	ND	5.0	
110-02-1	Thiophene	ND	17	ND	5.0	
513-44-0	Isobutyl Mercaptan	ND	18	ND	5.0	
352-93-2	Diethyl Sulfide	ND	18	ND	5.0	
109-79-5	n-Butyl Mercaptan	ND	18	ND	5.0	
624-92-0	Dimethyl Disulfide	ND	9.6	ND	2.5	
616-44-4	3-Methylthiophene	ND	20	ND	5.0	
110-01-0	Tetrahydrothiophene	ND	18	ND	5.0	
638-02-8	2,5-Dimethylthiophene	ND	23	ND	5.0	
872-55-9	2-Ethylthiophene	ND	23	ND	5.0	
110-81-6	Diethyl Disulfide	ND	12	ND	2.5	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: RAPCA
Client Sample ID: Lab Control Sample
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111
ALS Sample ID: P170824-LCS

Test Code: ASTM D 5504-12
Instrument ID: Agilent 7890A/GC22/SCD
Analyst: Mike Conejo
Sample Type: 6.0 L Silonite Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/24/17
Volume(s) Analyzed: NA ml(s)

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
7783-06-4	Hydrogen Sulfide	1,000	1,150	115	81-141	
463-58-1	Carbonyl Sulfide	1,000	1,170	117	81-147	
74-93-1	Methyl Mercaptan	1,000	1,180	118	80-144	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: RAPCA

Client Sample ID: Can A - 081717

Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

ALS Sample ID: P1704111-001

Test Code: EPA TO-15

Date Collected: 8/18/17

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 8/23/17

Analyst: Lusine Hakobyan

Date Analyzed: 8/24/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00514

Initial Pressure (psig): -3.30 Final Pressure (psig): 3.69

Container Dilution Factor: 1.61

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	0.50	0.81	0.23	0.29	0.47	0.13	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.81	0.27	0.41	0.16	0.055	
74-87-3	Chloromethane	0.27	0.81	0.24	0.13	0.39	0.12	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.81	0.31	ND	0.12	0.044	
75-01-4	Vinyl Chloride	ND	0.81	0.27	ND	0.32	0.11	
106-99-0	1,3-Butadiene	ND	0.81	0.35	ND	0.36	0.16	
74-83-9	Bromomethane	ND	0.81	0.31	ND	0.21	0.079	
75-00-3	Chloroethane	ND	0.81	0.27	ND	0.31	0.10	
67-64-1	Acetone	5.2	8.1	1.2	2.2	3.4	0.52	J
75-69-4	Trichlorofluoromethane (CFC 11)	0.99	0.81	0.27	0.18	0.14	0.049	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.69	8.1	0.68	0.28	3.3	0.28	J
75-35-4	1,1-Dichloroethene	ND	0.81	0.27	ND	0.20	0.069	
75-09-2	Methylene Chloride	0.95	0.81	0.27	0.27	0.23	0.079	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.47	0.81	0.27	0.061	0.11	0.036	J
75-15-0	Carbon Disulfide	ND	8.1	0.24	ND	2.6	0.078	
156-60-5	trans-1,2-Dichloroethene	ND	0.81	0.31	ND	0.20	0.077	
75-34-3	1,1-Dichloroethane	ND	0.81	0.26	ND	0.20	0.064	
1634-04-4	Methyl tert-Butyl Ether	ND	0.81	0.27	ND	0.22	0.076	
108-05-4	Vinyl Acetate	ND	8.1	1.0	ND	2.3	0.30	
78-93-3	2-Butanone (MEK)	0.88	8.1	0.34	0.30	2.7	0.11	J
156-59-2	cis-1,2-Dichloroethene	ND	0.81	0.26	ND	0.20	0.065	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: RAPCA

Client Sample ID: Can A - 081717

Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

ALS Sample ID: P1704111-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00514

Date Collected: 8/18/17

Date Received: 8/23/17

Date Analyzed: 8/24/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.30 Final Pressure (psig): 3.69

Container Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	1.6	0.56	ND	0.45	0.16	
110-54-3	n-Hexane	ND	0.81	0.24	ND	0.23	0.069	
67-66-3	Chloroform	ND	0.81	0.27	ND	0.16	0.056	
109-99-9	Tetrahydrofuran (THF)	ND	0.81	0.32	ND	0.27	0.11	
107-06-2	1,2-Dichloroethane	ND	0.81	0.26	ND	0.20	0.064	
71-55-6	1,1,1-Trichloroethane	ND	0.81	0.27	ND	0.15	0.050	
71-43-2	Benzene	0.39	0.81	0.26	0.12	0.25	0.081	J
56-23-5	Carbon Tetrachloride	0.33	0.81	0.24	0.053	0.13	0.038	J
110-82-7	Cyclohexane	ND	1.6	0.47	ND	0.47	0.14	
78-87-5	1,2-Dichloropropane	ND	0.81	0.26	ND	0.17	0.056	
75-27-4	Bromodichloromethane	ND	0.81	0.24	ND	0.12	0.036	
79-01-6	Trichloroethene	0.42	0.81	0.23	0.079	0.15	0.042	J
123-91-1	1,4-Dioxane	ND	0.81	0.26	ND	0.22	0.072	
142-82-5	n-Heptane	ND	0.81	0.27	ND	0.20	0.067	
10061-01-5	cis-1,3-Dichloropropene	ND	0.81	0.23	ND	0.18	0.050	
108-10-1	4-Methyl-2-pentanone	ND	0.81	0.26	ND	0.20	0.063	
10061-02-6	trans-1,3-Dichloropropene	ND	0.81	0.26	ND	0.18	0.057	
79-00-5	1,1,2-Trichloroethane	ND	0.81	0.26	ND	0.15	0.047	
108-88-3	Toluene	1.5	0.81	0.27	0.40	0.21	0.073	
591-78-6	2-Hexanone	ND	0.81	0.26	ND	0.20	0.063	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: RAPCA

Client Sample ID: Can A - 081717

Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

ALS Sample ID: P1704111-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00514

Date Collected: 8/18/17

Date Received: 8/23/17

Date Analyzed: 8/24/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.30 Final Pressure (psig): 3.69

Container Dilution Factor: 1.61

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.81	0.26	ND	0.095	0.030	
106-93-4	1,2-Dibromoethane	ND	0.81	0.26	ND	0.10	0.034	
127-18-4	Tetrachloroethene	ND	0.81	0.23	ND	0.12	0.033	
108-90-7	Chlorobenzene	ND	0.81	0.26	ND	0.17	0.056	
100-41-4	Ethylbenzene	ND	0.81	0.26	ND	0.19	0.059	
179601-23-1	m,p-Xylenes	ND	1.6	0.48	ND	0.37	0.11	
75-25-2	Bromoform	ND	0.81	0.24	ND	0.078	0.023	
100-42-5	Styrene	ND	0.81	0.24	ND	0.19	0.057	
95-47-6	o-Xylene	ND	0.81	0.24	ND	0.19	0.056	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.81	0.24	ND	0.12	0.035	
98-82-8	Cumene	ND	0.81	0.24	ND	0.16	0.049	
622-96-8	4-Ethyltoluene	ND	0.81	0.26	ND	0.16	0.052	
108-67-8	1,3,5-Trimethylbenzene	ND	0.81	0.26	ND	0.16	0.052	
95-63-6	1,2,4-Trimethylbenzene	ND	0.81	0.24	ND	0.16	0.049	
100-44-7	Benzyl Chloride	ND	0.81	0.18	ND	0.16	0.034	
541-73-1	1,3-Dichlorobenzene	ND	0.81	0.24	ND	0.13	0.040	
106-46-7	1,4-Dichlorobenzene	ND	0.81	0.23	ND	0.13	0.038	
95-50-1	1,2-Dichlorobenzene	ND	0.81	0.24	ND	0.13	0.040	
120-82-1	1,2,4-Trichlorobenzene	ND	0.81	0.26	ND	0.11	0.035	
91-20-3	Naphthalene	ND	0.81	0.29	ND	0.15	0.055	
87-68-3	Hexachlorobutadiene	ND	0.81	0.23	ND	0.075	0.021	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: RAPCA

Client Sample ID: Can B - 081717

Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

ALS Sample ID: P1704111-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00890

Date Collected: 8/18/17

Date Received: 8/23/17

Date Analyzed: 8/24/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.76 Final Pressure (psig): 3.62

Container Dilution Factor: 1.84

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	0.45	0.92	0.26	0.26	0.53	0.15	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.92	0.31	0.43	0.19	0.063	
74-87-3	Chloromethane	ND	0.92	0.28	ND	0.45	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.92	0.35	ND	0.13	0.050	
75-01-4	Vinyl Chloride	ND	0.92	0.31	ND	0.36	0.12	
106-99-0	1,3-Butadiene	ND	0.92	0.40	ND	0.42	0.18	
74-83-9	Bromomethane	ND	0.92	0.35	ND	0.24	0.090	
75-00-3	Chloroethane	ND	0.92	0.31	ND	0.35	0.12	
67-64-1	Acetone	5.9	9.2	1.4	2.5	3.9	0.60	J
75-69-4	Trichlorofluoromethane (CFC 11)	0.95	0.92	0.31	0.17	0.16	0.056	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.2	0.77	ND	3.7	0.31	
75-35-4	1,1-Dichloroethene	ND	0.92	0.31	ND	0.23	0.079	
75-09-2	Methylene Chloride	1.6	0.92	0.31	0.47	0.26	0.090	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.45	0.92	0.31	0.059	0.12	0.041	J
75-15-0	Carbon Disulfide	0.35	9.2	0.28	0.11	3.0	0.089	J
156-60-5	trans-1,2-Dichloroethene	ND	0.92	0.35	ND	0.23	0.088	
75-34-3	1,1-Dichloroethane	ND	0.92	0.29	ND	0.23	0.073	
1634-04-4	Methyl tert-Butyl Ether	ND	0.92	0.31	ND	0.26	0.087	
108-05-4	Vinyl Acetate	ND	9.2	1.2	ND	2.6	0.34	
78-93-3	2-Butanone (MEK)	0.86	9.2	0.39	0.29	3.1	0.13	J
156-59-2	cis-1,2-Dichloroethene	ND	0.92	0.29	ND	0.23	0.074	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 2 of 3

Client: RAPCA

Client Sample ID: Can B - 081717

Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

ALS Sample ID: P1704111-002

Test Code: EPA TO-15

Date Collected: 8/18/17

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 8/23/17

Analyst: Lusine Hakobyan

Date Analyzed: 8/24/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00890

Initial Pressure (psig): -4.76 Final Pressure (psig): 3.62

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	1.8	0.64	ND	0.51	0.18	
110-54-3	n-Hexane	ND	0.92	0.28	ND	0.26	0.078	
67-66-3	Chloroform	ND	0.92	0.31	ND	0.19	0.064	
109-99-9	Tetrahydrofuran (THF)	ND	0.92	0.37	ND	0.31	0.12	
107-06-2	1,2-Dichloroethane	ND	0.92	0.29	ND	0.23	0.073	
71-55-6	1,1,1-Trichloroethane	ND	0.92	0.31	ND	0.17	0.057	
71-43-2	Benzene	0.50	0.92	0.29	0.16	0.29	0.092	J
56-23-5	Carbon Tetrachloride	0.31	0.92	0.28	0.050	0.15	0.044	J
110-82-7	Cyclohexane	ND	1.8	0.53	ND	0.53	0.16	
78-87-5	1,2-Dichloropropane	ND	0.92	0.29	ND	0.20	0.064	
75-27-4	Bromodichloromethane	ND	0.92	0.28	ND	0.14	0.041	
79-01-6	Trichloroethene	ND	0.92	0.26	ND	0.17	0.048	
123-91-1	1,4-Dioxane	ND	0.92	0.29	ND	0.26	0.082	
142-82-5	n-Heptane	ND	0.92	0.31	ND	0.22	0.076	
10061-01-5	cis-1,3-Dichloropropene	ND	0.92	0.26	ND	0.20	0.057	
108-10-1	4-Methyl-2-pentanone	ND	0.92	0.29	ND	0.22	0.072	
10061-02-6	trans-1,3-Dichloropropene	ND	0.92	0.29	ND	0.20	0.065	
79-00-5	1,1,2-Trichloroethane	ND	0.92	0.29	ND	0.17	0.054	
108-88-3	Toluene	1.9	0.92	0.31	0.50	0.24	0.083	
591-78-6	2-Hexanone	ND	0.92	0.29	ND	0.22	0.072	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 3 of 3

Client: RAPCA

Client Sample ID: Can B - 081717

Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

ALS Sample ID: P1704111-002

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS00890

Date Collected: 8/18/17

Date Received: 8/23/17

Date Analyzed: 8/24/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.76 Final Pressure (psig): 3.62

Container Dilution Factor: 1.84

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.92	0.29	ND	0.11	0.035	
106-93-4	1,2-Dibromoethane	ND	0.92	0.29	ND	0.12	0.038	
127-18-4	Tetrachloroethene	ND	0.92	0.26	ND	0.14	0.038	
108-90-7	Chlorobenzene	ND	0.92	0.29	ND	0.20	0.064	
100-41-4	Ethylbenzene	ND	0.92	0.29	ND	0.21	0.068	
179601-23-1	m,p-Xylenes	ND	1.8	0.55	ND	0.42	0.13	
75-25-2	Bromoform	ND	0.92	0.28	ND	0.089	0.027	
100-42-5	Styrene	ND	0.92	0.28	ND	0.22	0.065	
95-47-6	o-Xylene	ND	0.92	0.28	ND	0.21	0.064	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.92	0.28	ND	0.13	0.040	
98-82-8	Cumene	ND	0.92	0.28	ND	0.19	0.056	
622-96-8	4-Ethyltoluene	ND	0.92	0.29	ND	0.19	0.060	
108-67-8	1,3,5-Trimethylbenzene	ND	0.92	0.29	ND	0.19	0.060	
95-63-6	1,2,4-Trimethylbenzene	ND	0.92	0.28	ND	0.19	0.056	
100-44-7	Benzyl Chloride	ND	0.92	0.20	ND	0.18	0.039	
541-73-1	1,3-Dichlorobenzene	ND	0.92	0.28	ND	0.15	0.046	
106-46-7	1,4-Dichlorobenzene	ND	0.92	0.26	ND	0.15	0.043	
95-50-1	1,2-Dichlorobenzene	ND	0.92	0.28	ND	0.15	0.046	
120-82-1	1,2,4-Trichlorobenzene	ND	0.92	0.29	ND	0.12	0.040	
91-20-3	Naphthalene	ND	0.92	0.33	ND	0.18	0.063	
87-68-3	Hexachlorobutadiene	ND	0.92	0.26	ND	0.086	0.024	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 3

Client: RAPCA
Client Sample ID: Method Blank
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

ALS Project ID: P1704111
 ALS Sample ID: P170824-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/24/17
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m ³	µg/m ³	µg/m ³	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	ND	0.50	0.14	ND	0.29	0.081	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.17	ND	0.10	0.034	
74-87-3	Chloromethane	ND	0.50	0.15	ND	0.24	0.073	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.19	ND	0.072	0.027	
75-01-4	Vinyl Chloride	ND	0.50	0.17	ND	0.20	0.067	
106-99-0	1,3-Butadiene	ND	0.50	0.22	ND	0.23	0.099	
74-83-9	Bromomethane	ND	0.50	0.19	ND	0.13	0.049	
75-00-3	Chloroethane	ND	0.50	0.17	ND	0.19	0.064	
67-64-1	Acetone	ND	5.0	0.77	ND	2.1	0.32	
75-69-4	Trichlorofluoromethane (CFC 11)	ND	0.50	0.17	ND	0.089	0.030	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	5.0	0.42	ND	2.0	0.17	
75-35-4	1,1-Dichloroethene	ND	0.50	0.17	ND	0.13	0.043	
75-09-2	Methylene Chloride	ND	0.50	0.17	ND	0.14	0.049	
76-13-1	Trichlorotrifluoroethane (CFC 113)	ND	0.50	0.17	ND	0.065	0.022	
75-15-0	Carbon Disulfide	ND	5.0	0.15	ND	1.6	0.048	
156-60-5	trans-1,2-Dichloroethene	ND	0.50	0.19	ND	0.13	0.048	
75-34-3	1,1-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.50	0.17	ND	0.14	0.047	
108-05-4	Vinyl Acetate	ND	5.0	0.65	ND	1.4	0.18	
78-93-3	2-Butanone (MEK)	ND	5.0	0.21	ND	1.7	0.071	
156-59-2	cis-1,2-Dichloroethene	ND	0.50	0.16	ND	0.13	0.040	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: RAPCA
Client Sample ID: Method Blank
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sample Type: 6.0 L Silonite Canister
Test Notes:

ALS Project ID: P1704111
ALS Sample ID: P170824-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 8/24/17
Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	ND	1.0	0.35	ND	0.28	0.097	
110-54-3	n-Hexane	ND	0.50	0.15	ND	0.14	0.043	
67-66-3	Chloroform	ND	0.50	0.17	ND	0.10	0.035	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	0.20	ND	0.17	0.068	
107-06-2	1,2-Dichloroethane	ND	0.50	0.16	ND	0.12	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.17	ND	0.092	0.031	
71-43-2	Benzene	ND	0.50	0.16	ND	0.16	0.050	
56-23-5	Carbon Tetrachloride	ND	0.50	0.15	ND	0.080	0.024	
110-82-7	Cyclohexane	ND	1.0	0.29	ND	0.29	0.084	
78-87-5	1,2-Dichloropropane	ND	0.50	0.16	ND	0.11	0.035	
75-27-4	Bromodichloromethane	ND	0.50	0.15	ND	0.075	0.022	
79-01-6	Trichloroethene	ND	0.50	0.14	ND	0.093	0.026	
123-91-1	1,4-Dioxane	ND	0.50	0.16	ND	0.14	0.044	
142-82-5	n-Heptane	ND	0.50	0.17	ND	0.12	0.041	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	ND	0.11	0.031	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.16	ND	0.12	0.039	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	ND	0.11	0.035	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.16	ND	0.092	0.029	
108-88-3	Toluene	ND	0.50	0.17	ND	0.13	0.045	
591-78-6	2-Hexanone	ND	0.50	0.16	ND	0.12	0.039	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: RAPCA
Client Sample ID: Method Blank
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111
 ALS Sample ID: P170824-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/24/17
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	MDL µg/m ³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.50	0.16	ND	0.059	0.019	
106-93-4	1,2-Dibromoethane	ND	0.50	0.16	ND	0.065	0.021	
127-18-4	Tetrachloroethene	ND	0.50	0.14	ND	0.074	0.021	
108-90-7	Chlorobenzene	ND	0.50	0.16	ND	0.11	0.035	
100-41-4	Ethylbenzene	ND	0.50	0.16	ND	0.12	0.037	
179601-23-1	m,p-Xylenes	ND	1.0	0.30	ND	0.23	0.069	
75-25-2	Bromoform	ND	0.50	0.15	ND	0.048	0.015	
100-42-5	Styrene	ND	0.50	0.15	ND	0.12	0.035	
95-47-6	o-Xylene	ND	0.50	0.15	ND	0.12	0.035	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.15	ND	0.073	0.022	
98-82-8	Cumene	ND	0.50	0.15	ND	0.10	0.031	
622-96-8	4-Ethyltoluene	ND	0.50	0.16	ND	0.10	0.033	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.16	ND	0.10	0.033	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.15	ND	0.10	0.031	
100-44-7	Benzyl Chloride	ND	0.50	0.11	ND	0.097	0.021	
541-73-1	1,3-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.50	0.14	ND	0.083	0.023	
95-50-1	1,2-Dichlorobenzene	ND	0.50	0.15	ND	0.083	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.16	ND	0.067	0.022	
91-20-3	Naphthalene	ND	0.50	0.18	ND	0.095	0.034	
87-68-3	Hexachlorobutadiene	ND	0.50	0.14	ND	0.047	0.013	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

ALS ENVIRONMENTAL

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: RAPCA
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 6.0 L Silonite Canister(s)
 Test Notes:

Date(s) Collected: 8/18/17
 Date(s) Received: 8/23/17
 Date(s) Analyzed: 8/24/17

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4	Toluene-d8	Bromofluorobenzene	Acceptance Limits	Data Qualifier
		Percent Recovered	Percent Recovered	Percent Recovered		
Method Blank	P170824-MB	75	106	110	70-130	
Lab Control Sample	P170824-LCS	75	104	110	70-130	
Can A - 081717	P1704111-001	77	106	107	70-130	
Can B - 081717	P1704111-002	76	106	109	70-130	
Can B - 081717	P1704111-002DUP	77	105	109	70-130	

Surrogate percent recovery is verified and accepted based on the on-column result.

Reported results are shown in concentration units and as a result of the calculation, may vary slightly from the on-column percent recovery.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: RAPCA
Client Sample ID: Lab Control Sample
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111
 ALS Sample ID: P170824-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/24/17
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	210	206	98	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	188	90	68-109	
74-87-3	Chloromethane	210	207	99	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	213	101	66-114	
75-01-4	Vinyl Chloride	210	231	110	61-125	
106-99-0	1,3-Butadiene	210	213	101	62-144	
74-83-9	Bromomethane	210	199	95	73-123	
75-00-3	Chloroethane	210	197	94	69-122	
67-64-1	Acetone	1,060	848	80	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	163	78	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	316	75	66-121	
75-35-4	1,1-Dichloroethene	213	194	91	76-118	
75-09-2	Methylene Chloride	212	192	91	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	195	92	73-114	
75-15-0	Carbon Disulfide	213	199	93	57-102	
156-60-5	trans-1,2-Dichloroethene	213	184	86	74-123	
75-34-3	1,1-Dichloroethane	212	182	86	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	172	81	69-113	
108-05-4	Vinyl Acetate	1,060	987	93	76-128	
78-93-3	2-Butanone (MEK)	212	191	90	63-127	
156-59-2	cis-1,2-Dichloroethene	212	178	84	72-117	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result. Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: RAPCA
Client Sample ID: Lab Control Sample
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111
 ALS Sample ID: P170824-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/24/17
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
141-78-6	Ethyl Acetate	426	358	84	68-127	
110-54-3	n-Hexane	213	172	81	55-116	
67-66-3	Chloroform	212	170	80	70-109	
109-99-9	Tetrahydrofuran (THF)	213	182	85	72-113	
107-06-2	1,2-Dichloroethane	212	148	70	69-113	
71-55-6	1,1,1-Trichloroethane	212	162	76	72-115	
71-43-2	Benzene	212	184	87	65-107	
56-23-5	Carbon Tetrachloride	213	165	77	71-113	
110-82-7	Cyclohexane	425	375	88	71-115	
78-87-5	1,2-Dichloropropane	212	194	92	71-115	
75-27-4	Bromodichloromethane	214	171	80	75-118	
79-01-6	Trichloroethene	212	195	92	68-114	
123-91-1	1,4-Dioxane	213	195	92	81-131	
142-82-5	n-Heptane	213	193	91	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	188	90	77-126	
108-10-1	4-Methyl-2-pentanone	213	183	86	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	185	87	79-125	
79-00-5	1,1,2-Trichloroethane	212	196	92	75-119	
108-88-3	Toluene	212	206	97	59-118	
591-78-6	2-Hexanone	213	164	77	69-129	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: RAPCA
Client Sample ID: Lab Control Sample
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111
 ALS Sample ID: P170824-LCS

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sample Type: 6.0 L Silonite Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/24/17
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m ³	Result µg/m ³	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
124-48-1	Dibromochloromethane	213	197	92	74-136	
106-93-4	1,2-Dibromoethane	212	205	97	73-131	
127-18-4	Tetrachloroethene	213	211	99	65-130	
108-90-7	Chlorobenzene	212	208	98	68-120	
100-41-4	Ethylbenzene	212	195	92	68-122	
179601-23-1	m,p-Xylenes	424	378	89	68-123	
75-25-2	Bromoform	212	202	95	69-130	
100-42-5	Styrene	212	212	100	71-133	
95-47-6	o-Xylene	212	189	89	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	202	95	69-130	
98-82-8	Cumene	212	196	92	70-123	
622-96-8	4-Ethyltoluene	212	205	97	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	196	92	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	186	88	67-129	
100-44-7	Benzyl Chloride	212	196	92	79-138	
541-73-1	1,3-Dichlorobenzene	212	209	99	65-136	
106-46-7	1,4-Dichlorobenzene	213	215	101	66-141	
95-50-1	1,2-Dichlorobenzene	212	211	100	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	249	117	64-134	
91-20-3	Naphthalene	214	262	122	62-136	
87-68-3	Hexachlorobutadiene	213	217	102	60-133	

Laboratory Control Sample percent recovery is verified and accepted based on the on-column result.
 Reported results are shown in concentration units and as a result of the calculation, may vary slightly.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: RAPCA

Client Sample ID: Can B - 081717

Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

ALS Sample ID: P1704111-002DUP

Test Code: EPA TO-15

Date Collected: 8/18/17

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 8/23/17

Analyst: Lusine Hakobyan

Date Analyzed: 8/24/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00890

Initial Pressure (psig): -4.76

Final Pressure (psig): 3.62

Container Dilution Factor: 1.84

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	0.447	0.260	0.460	0.267	0.4535	3	25	J
Dichlorodifluoromethane (CFC 12)	2.13	0.431	2.01	0.406	2.07	6	25	
Chloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Acetone	5.93	2.50	7.27	3.06	6.6	20	25	J
Trichlorofluoromethane	0.953	0.170	1.19	0.213	1.0715	22	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	1.64	0.471	1.59	0.458	1.615	3	25	
Trichlorotrifluoroethane	0.453	0.0591	0.453	0.0591	0.453	0	25	J
Carbon Disulfide	0.351	0.113	0.350	0.112	0.3505	0.3	25	J
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	0.865	0.293	0.861	0.292	0.863	0.5	25	J
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: RAPCA

Client Sample ID: Can B - 081717

Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

ALS Sample ID: P1704111-002DUP

Test Code: EPA TO-15

Date Collected: 8/18/17

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 8/23/17

Analyst: Lusine Hakobyan

Date Analyzed: 8/24/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00890

Initial Pressure (psig): -4.76

Final Pressure (psig): 3.62

Container Dilution Factor: 1.84

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Ethyl Acetate	ND	ND	ND	ND	-	-	25	
n-Hexane	ND	ND	ND	ND	-	-	25	
Chloroform	ND	ND	ND	ND	-	-	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	0.502	0.157	0.491	0.154	0.4965	2	25	J
Carbon Tetrachloride	0.315	0.0500	0.302	0.0480	0.3085	4	25	J
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	1.87	0.495	1.83	0.486	1.85	2	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

ALS ENVIRONMENTAL

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: RAPCA

Client Sample ID: Can B - 081717

Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1704111

ALS Sample ID: P1704111-002DUP

Test Code: EPA TO-15

Date Collected: 8/18/17

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 8/23/17

Analyst: Lusine Hakobyan

Date Analyzed: 8/24/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS00890

Initial Pressure (psig): -4.76

Final Pressure (psig): 3.62

Container Dilution Factor: 1.84

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
Tetrachloroethene	ND	ND	ND	ND	-	-	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	ND	ND	ND	ND	-	-	25	
m,p-Xylenes	ND	ND	ND	ND	-	-	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.