2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

LABORATORY REPORT

July 14, 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 July 11, 2017. For your reference, these analyses have been assigned our service request number P1703291.

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 Sue Anderson at 11:30 am, Jul 14, 2017
For Kate Kaneko
Project Manager

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

Client: RAPCA Service Request No: P1703291
Project: Community Air Toxics Monitoring 2017 / 2017-1

CASE NARRATIVE

The samples were received intact under chain of custody on July 11, 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 spike recovery of carbon disulfide in the Laboratory Control Sample (LCS) was outside the laboratory generated control criteria. The recovery error equates to a potential high bias. However, the recovery in question was within the method criteria, therefore, the data quality has not been significantly affected. No corrective action was taken.

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.

2655 Park Center Dr., Suite A
Simi Valley, CA 93065
T: +1 805 526 7161
F: +1 805 526 7270
www.alsglobal.com

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/	CA016272016-6
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
Service Request: P1703291
Project ID: Community Air Toxics Monitoring 2017 / 2017-1

Date Received: 7/11/2017
Time Received: 09:30

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 - 070617	P1703291-001	Air	7/7/2017	00:00	AS01011	-5.17	3.73	X	X
Can B - 070617	P1703291-002	Air	7/7/2017	00:00	AS00024	-5.86	3.62	X	X

Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A
Simi Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Requested Turnaround Time in Business Days (Surcharges) please circle
3 Day (50%)

ALS Project No. P1703291

Company Name & Address (Reporting Information)	Project Name	ALS Contact:
Regional Air Pollution Control (RAPCA) 117 S. Main St. Dayton, OH 45422	Community Air Toxics Monitoring 2017 Project Number: 2017-1	K. Kaneko
Project Manager: Stephanie Madden	P.O. # / Billing Information: PO# 702021 Public Heath Dayton Montgomery County (PHDMC) Attn: Accounting 117 S. Main St. Dayton, OH 45422	
Phone: 937-225-5922 / Fax: 937-225-3486		
Email Address for Result Reporting: smadden@rapca.org and aroth@rapca.org	Sampler (Print & Sign): Dale L. Davidson	

Client Sample ID	Laboratory ID Number	Date	Time	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller ID (Bar code # - FC #)	Canister Start Pressure "Hg	Canister End Pressure "Hg/psig	Sample Volume	Analysis Method: TO-15	Analysis Method: ASTM 5504	Comments e.g. Actual Preservative or specific instructions
Can A - 070617	RAP035	7/6/17 - 7/7/17		AS01011	SFC00102			6L	X	X	
Can B - 070617	RAP036	7/6/17 - 7/7/17		AS00024	SFC00154			6L	X	X	

Report Tier Levels - please select

Tier I - Results (Default if not specified) ____ Tier III (Results + QC & Calibration Summaries) ____
Tier II (Results + QC Summaries) X Tier IV (Data Validation Package) 10% Surcharge ____

EDD required Yes / No
Type: _____ Units: _____

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Stephanie Madden	7/7/17	11:00am			
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
				7/11/17	0930

Cooler / Blank Temperature ___°C

1
2
5 of 26

ALS Environmental
Sample Acceptance Check Form

Client: RAPCA Work order: P1703291

Project: Community Air Toxics Monitoring 2017 / 2017-1

Sample(s) received on: 7/11/17 Date opened: 7/11/17 by: ADAVID

Note: This form is used for all samples received by ALS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were **sample containers** properly marked with client sample ID?	☒	☐	☐
2	Did **sample containers** arrive in good condition?	☒	☐	☐
3	Were **chain-of-custody** papers used and filled out?	☒	☐	☐
4	Did **sample container labels** and/or tags agree with custody papers?	☒	☐	☐
5	Was **sample volume** received adequate for analysis?	☒	☐	☐
6	Are samples within specified holding times?	☒	☐	☐
7	Was proper **temperature** (thermal preservation) of cooler at receipt adhered to?	☐	☐	☒
8	Were **custody seals** on outside of cooler/Box/Container?	☐	☒	☐
	Location of seal(s)? _____ Sealing Lid?	☐	☐	☒
	Were signature and date included?	☐	☐	☒
	Were seals intact?	☐	☐	☒
9	Do containers have appropriate **preservation**, according to method/SOP or Client specified information?	☐	☐	☒
	Is there a client indication that the submitted samples are **pH** preserved?	☐	☐	☒
	Were **VOA vials** checked for presence/absence of air bubbles?	☐	☐	☒
	Does the client/method/SOP require that the analyst check the sample pH and if necessary alter it?	☐	☐	☒
10	**Tubes:** Are the tubes capped and intact?	☐	☐	☒
11	**Badges:** Are the badges properly capped and intact?	☐	☐	☒
	Are dual bed badges separated and individually capped and intact?	☐	☐	☒

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1703291-001.01	6.0 L Silonite Can					
P1703291-002.01	6.0 L Silonite Can					

Explain any discrepancies: (include lab sample ID numbers): _____

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **RAPCA**
Client Sample ID: **Can A - 070617** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-001

Test Code:	ASTM D 5504-12	Date Collected:	7/7/17
Instrument ID:	Agilent 7890A/GC22/SCD	Time Collected:	NA
Analyst:	Mike Conejo	Date Received:	7/11/17
Sample Type:	6.0 L Silonite Canister	Date Analyzed:	7/12/17
Test Notes:		Time Analyzed:	08:15
Container ID:	AS01011	Volume(s) Analyzed:	1.0 ml(s)

Initial Pressure (psig): -5.17 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	13	ND	9.7	
463-58-1	Carbonyl Sulfide	ND	24	ND	9.7	
74-93-1	Methyl Mercaptan	ND	19	ND	9.7	
75-08-1	Ethyl Mercaptan	ND	25	ND	9.7	
75-18-3	Dimethyl Sulfide	ND	25	ND	9.7	
75-15-0	Carbon Disulfide	ND	15	ND	4.8	
75-33-2	Isopropyl Mercaptan	ND	30	ND	9.7	
75-66-1	tert-Butyl Mercaptan	ND	36	ND	9.7	
107-03-9	n-Propyl Mercaptan	ND	30	ND	9.7	
624-89-5	Ethyl Methyl Sulfide	ND	30	ND	9.7	
110-02-1	Thiophene	ND	33	ND	9.7	
513-44-0	Isobutyl Mercaptan	ND	36	ND	9.7	
352-93-2	Diethyl Sulfide	ND	36	ND	9.7	
109-79-5	n-Butyl Mercaptan	ND	36	ND	9.7	
624-92-0	Dimethyl Disulfide	ND	19	ND	4.8	
616-44-4	3-Methylthiophene	ND	39	ND	9.7	
110-01-0	Tetrahydrothiophene	ND	35	ND	9.7	
638-02-8	2,5-Dimethylthiophene	ND	44	ND	9.7	
872-55-9	2-Ethylthiophene	ND	44	ND	9.7	
110-81-6	Diethyl Disulfide	ND	24	ND	4.8	

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

Client: **RAPCA**
Client Sample ID: **Can B - 070617** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-002

Test Code:	ASTM D 5504-12	Date Collected:	7/7/17
Instrument ID:	Agilent 7890A/GC22/SCD	Time Collected:	NA
Analyst:	Mike Conejo	Date Received:	7/11/17
Sample Type:	6.0 L Silonite Canister	Date Analyzed:	7/12/17
Test Notes:		Time Analyzed:	08:32
Container ID:	AS00024	Volume(s) Analyzed:	1.0 ml(s)

Initial Pressure (psig): -5.86 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	14	ND	10	
463-58-1	Carbonyl Sulfide	ND	25	ND	10	
74-93-1	Methyl Mercaptan	ND	20	ND	10	
75-08-1	Ethyl Mercaptan	ND	26	ND	10	
75-18-3	Dimethyl Sulfide	ND	26	ND	10	
75-15-0	Carbon Disulfide	ND	16	ND	5.2	
75-33-2	Isopropyl Mercaptan	ND	32	ND	10	
75-66-1	tert-Butyl Mercaptan	ND	38	ND	10	
107-03-9	n-Propyl Mercaptan	ND	32	ND	10	
624-89-5	Ethyl Methyl Sulfide	ND	32	ND	10	
110-02-1	Thiophene	ND	36	ND	10	
513-44-0	Isobutyl Mercaptan	ND	38	ND	10	
352-93-2	Diethyl Sulfide	ND	38	ND	10	
109-79-5	n-Butyl Mercaptan	ND	38	ND	10	
624-92-0	Dimethyl Disulfide	ND	20	ND	5.2	
616-44-4	3-Methylthiophene	ND	42	ND	10	
110-01-0	Tetrahydrothiophene	ND	37	ND	10	
638-02-8	2,5-Dimethylthiophene	ND	47	ND	10	
872-55-9	2-Ethylthiophene	ND	47	ND	10	
110-81-6	Diethyl Disulfide	ND	26	ND	5.2	

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

Client: **RAPCA**
Client Sample ID: **Method Blank** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P170712-MB

Test Code: ASTM D 5504-12 Date Collected: NA
Instrument ID: Agilent 7890A/GC22/SCD Time Collected: NA
Analyst: Mike Conejo Date Received: NA
Sample Type: 6.0 L Silonite Canister Date Analyzed: 7/12/17
Test Notes: Time Analyzed: 07:57
Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m³	MRL µg/m³	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

Client: **RAPCA**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P170712-LCS

Test Code: ASTM D 5504-12 Date Collected: NA
Instrument ID: Agilent 7890A/GC22/SCD Date Received: NA
Analyst: Mike Conejo Date Analyzed: 7/12/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: NA ml(s)
Test Notes:

CAS #	Compound	Spike Amount ppbV	Result ppbV	% Recovery	ALS Acceptance Limits	Data Qualifier
7783-06-4	Hydrogen Sulfide	1,000	**1,140**	**114**	81-141	
463-58-1	Carbonyl Sulfide	1,000	**1,230**	**123**	81-147	
74-93-1	Methyl Mercaptan	1,000	**1,220**	**122**	80-144	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Client: **RAPCA**
Client Sample ID: **Can A - 070617** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-001

Test Code: EPA TO-15 Date Collected: 7/7/17
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 7/11/17
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS01011

Initial Pressure (psig): -5.17 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**0.51**	0.97	0.27	**0.30**	0.56	0.16	**J**
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.0**	0.97	0.33	**0.40**	0.20	0.066	
74-87-3	Chloromethane	ND	0.97	0.29	ND	0.47	0.14	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.97	0.37	ND	0.14	0.052	
75-01-4	Vinyl Chloride	ND	0.97	0.33	ND	0.38	0.13	
106-99-0	1,3-Butadiene	ND	0.97	0.42	ND	0.44	0.19	
74-83-9	Bromomethane	ND	0.97	0.37	ND	0.25	0.094	
75-00-3	Chloroethane	ND	0.97	0.33	ND	0.37	0.12	
67-64-1	Acetone	**7.6**	9.7	1.5	**3.2**	4.1	0.63	**J**
75-69-4	Trichlorofluoromethane (CFC 11)	**1.1**	0.97	0.33	**0.20**	0.17	0.058	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	9.7	0.81	ND	3.9	0.33	
75-35-4	1,1-Dichloroethene	ND	0.97	0.33	ND	0.24	0.083	
75-09-2	Methylene Chloride	**0.52**	0.97	0.33	**0.15**	0.28	0.094	**J**
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.44**	0.97	0.33	**0.057**	0.13	0.043	**J**
75-15-0	Carbon Disulfide	ND	9.7	0.29	ND	3.1	0.093	
156-60-5	trans-1,2-Dichloroethene	ND	0.97	0.37	ND	0.24	0.093	
75-34-3	1,1-Dichloroethane	ND	0.97	0.31	ND	0.24	0.076	
1634-04-4	Methyl tert-Butyl Ether	ND	0.97	0.33	ND	0.27	0.091	
108-05-4	Vinyl Acetate	ND	9.7	1.3	ND	2.7	0.36	
78-93-3	2-Butanone (MEK)	**0.95**	9.7	0.41	**0.32**	3.3	0.14	**J**
156-59-2	cis-1,2-Dichloroethene	ND	0.97	0.31	ND	0.24	0.078	

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.

Client: **RAPCA**

Client Sample ID: **Can A - 070617** ALS Project ID: P1703291

Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-001

Test Code: EPA TO-15 Date Collected: 7/7/17

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 7/11/17

Analyst: Lusine Hakobyan Date Analyzed: 7/11/17

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01011

Initial Pressure (psig): -5.17 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	**1.1**	1.9	0.68	**0.32**	0.54	0.19	**J**
110-54-3	n-Hexane	**0.43**	0.97	0.29	**0.12**	0.27	0.082	**J**
67-66-3	Chloroform	ND	0.97	0.33	ND	0.20	0.067	
109-99-9	Tetrahydrofuran (THF)	ND	0.97	0.39	ND	0.33	0.13	
107-06-2	1,2-Dichloroethane	ND	0.97	0.31	ND	0.24	0.076	
71-55-6	1,1,1-Trichloroethane	ND	0.97	0.33	ND	0.18	0.060	
71-43-2	Benzene	**0.42**	0.97	0.31	**0.13**	0.30	0.097	**J**
56-23-5	Carbon Tetrachloride	**0.33**	0.97	0.29	**0.052**	0.15	0.046	**J**
110-82-7	Cyclohexane	ND	1.9	0.56	ND	0.56	0.16	
78-87-5	1,2-Dichloropropane	ND	0.97	0.31	ND	0.21	0.067	
75-27-4	Bromodichloromethane	ND	0.97	0.29	ND	0.14	0.043	
79-01-6	Trichloroethene	ND	0.97	0.27	ND	0.18	0.050	
123-91-1	1,4-Dioxane	ND	0.97	0.31	ND	0.27	0.086	
142-82-5	n-Heptane	ND	0.97	0.33	ND	0.24	0.080	
10061-01-5	cis-1,3-Dichloropropene	ND	0.97	0.27	ND	0.21	0.060	
108-10-1	4-Methyl-2-pentanone	ND	0.97	0.31	ND	0.24	0.075	
10061-02-6	trans-1,3-Dichloropropene	ND	0.97	0.31	ND	0.21	0.068	
79-00-5	1,1,2-Trichloroethane	ND	0.97	0.31	ND	0.18	0.057	
108-88-3	Toluene	**1.2**	0.97	0.33	**0.32**	0.26	0.087	
591-78-6	2-Hexanone	ND	0.97	0.31	ND	0.24	0.075	

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.

Client: **RAPCA**

Client Sample ID: **Can A - 070617** ALS Project ID: P1703291

Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-001

Test Code: EPA TO-15 Date Collected: 7/7/17

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 7/11/17

Analyst: Lusine Hakobyan Date Analyzed: 7/11/17

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01011

Initial Pressure (psig): -5.17 Final Pressure (psig): 3.73

Canister Dilution Factor: 1.93

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.97	0.31	ND	0.11	0.036	
106-93-4	1,2-Dibromoethane	ND	0.97	0.31	ND	0.13	0.040	
127-18-4	Tetrachloroethene	ND	0.97	0.27	ND	0.14	0.040	
108-90-7	Chlorobenzene	ND	0.97	0.31	ND	0.21	0.067	
100-41-4	Ethylbenzene	ND	0.97	0.31	ND	0.22	0.071	
179601-23-1	m,p-Xylenes	ND	1.9	0.58	ND	0.44	0.13	
75-25-2	Bromoform	ND	0.97	0.29	ND	0.093	0.028	
100-42-5	Styrene	ND	0.97	0.29	ND	0.23	0.068	
95-47-6	o-Xylene	ND	0.97	0.29	ND	0.22	0.067	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.97	0.29	ND	0.14	0.042	
98-82-8	Cumene	ND	0.97	0.29	ND	0.20	0.059	
622-96-8	4-Ethyltoluene	ND	0.97	0.31	ND	0.20	0.063	
108-67-8	1,3,5-Trimethylbenzene	ND	0.97	0.31	ND	0.20	0.063	
95-63-6	1,2,4-Trimethylbenzene	ND	0.97	0.29	ND	0.20	0.059	
100-44-7	Benzyl Chloride	ND	0.97	0.21	ND	0.19	0.041	
541-73-1	1,3-Dichlorobenzene	ND	0.97	0.29	ND	0.16	0.048	
106-46-7	1,4-Dichlorobenzene	ND	0.97	0.27	ND	0.16	0.045	
95-50-1	1,2-Dichlorobenzene	ND	0.97	0.29	ND	0.16	0.048	
120-82-1	1,2,4-Trichlorobenzene	ND	0.97	0.31	ND	0.13	0.042	
91-20-3	Naphthalene	ND	0.97	0.35	ND	0.18	0.066	
87-68-3	Hexachlorobutadiene	ND	0.97	0.27	ND	0.091	0.025	

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

Client: **RAPCA**
Client Sample ID: **Can B - 070617** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-002

Test Code: EPA TO-15 Date Collected: 7/7/17
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 7/11/17
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00024

Initial Pressure (psig): -5.86 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
115-07-1	Propene	**0.63**	1.0	0.29	**0.36**	0.60	0.17	**J**
75-71-8	Dichlorodifluoromethane (CFC 12)	**2.1**	1.0	0.35	**0.42**	0.21	0.071	
74-87-3	Chloromethane	**0.35**	1.0	0.31	**0.17**	0.50	0.15	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	0.39	ND	0.15	0.056	
75-01-4	Vinyl Chloride	ND	1.0	0.35	ND	0.41	0.14	
106-99-0	1,3-Butadiene	ND	1.0	0.46	ND	0.47	0.21	
74-83-9	Bromomethane	ND	1.0	0.39	ND	0.27	0.10	
75-00-3	Chloroethane	ND	1.0	0.35	ND	0.39	0.13	
67-64-1	Acetone	**8.7**	10	1.6	**3.7**	4.4	0.67	**J**
75-69-4	Trichlorofluoromethane (CFC 11)	**1.2**	1.0	0.35	**0.21**	0.18	0.063	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	10	0.87	ND	4.2	0.35	
75-35-4	1,1-Dichloroethene	ND	1.0	0.35	ND	0.26	0.089	
75-09-2	Methylene Chloride	**0.69**	1.0	0.35	**0.20**	0.30	0.10	**J**
76-13-1	Trichlorotrifluoroethane (CFC 113)	**0.46**	1.0	0.35	**0.060**	0.14	0.046	**J**
75-15-0	Carbon Disulfide	ND	10	0.31	ND	3.3	0.10	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.39	ND	0.26	0.099	
75-34-3	1,1-Dichloroethane	ND	1.0	0.33	ND	0.26	0.082	
1634-04-4	Methyl tert-Butyl Ether	ND	1.0	0.35	ND	0.29	0.098	
108-05-4	Vinyl Acetate	ND	10	1.3	ND	2.9	0.38	
78-93-3	2-Butanone (MEK)	**0.97**	10	0.43	**0.33**	3.5	0.15	**J**
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.33	ND	0.26	0.084	

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

Client: **RAPCA**
Client Sample ID: **Can B - 070617** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-002

Test Code: EPA TO-15 Date Collected: 7/7/17
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 7/11/17
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00024

Initial Pressure (psig): -5.86 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	**0.91**	2.1	0.72	**0.25**	0.57	0.20	**J**
110-54-3	n-Hexane	**0.50**	1.0	0.31	**0.14**	0.29	0.088	**J**
67-66-3	Chloroform	ND	1.0	0.35	ND	0.21	0.072	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	0.41	ND	0.35	0.14	
107-06-2	1,2-Dichloroethane	ND	1.0	0.33	ND	0.26	0.082	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.35	ND	0.19	0.065	
71-43-2	Benzene	**0.43**	1.0	0.33	**0.13**	0.32	0.10	**J**
56-23-5	Carbon Tetrachloride	**0.36**	1.0	0.31	**0.057**	0.16	0.049	**J**
110-82-7	Cyclohexane	ND	2.1	0.60	ND	0.60	0.17	
78-87-5	1,2-Dichloropropane	ND	1.0	0.33	ND	0.22	0.072	
75-27-4	Bromodichloromethane	ND	1.0	0.31	ND	0.15	0.046	
79-01-6	Trichloroethene	ND	1.0	0.29	ND	0.19	0.054	
123-91-1	1,4-Dioxane	ND	1.0	0.33	ND	0.29	0.092	
142-82-5	n-Heptane	ND	1.0	0.35	ND	0.25	0.086	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.29	ND	0.23	0.064	
108-10-1	4-Methyl-2-pentanone	ND	1.0	0.33	ND	0.25	0.081	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.33	ND	0.23	0.073	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.33	ND	0.19	0.061	
108-88-3	Toluene	**1.5**	1.0	0.35	**0.41**	0.27	0.093	
591-78-6	2-Hexanone	ND	1.0	0.33	ND	0.25	0.081	

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

Client: **RAPCA**
Client Sample ID: **Can B - 070617** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-002

Test Code: EPA TO-15 Date Collected: 7/7/17
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 7/11/17
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00024

Initial Pressure (psig): -5.86 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.07

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	1.0	0.33	ND	0.12	0.039	
106-93-4	1,2-Dibromoethane	ND	1.0	0.33	ND	0.13	0.043	
127-18-4	Tetrachloroethene	ND	1.0	0.29	ND	0.15	0.043	
108-90-7	Chlorobenzene	ND	1.0	0.33	ND	0.22	0.072	
100-41-4	Ethylbenzene	ND	1.0	0.33	ND	0.24	0.076	
179601-23-1	m,p-Xylenes	**0.73**	2.1	0.62	**0.17**	0.48	0.14	**J**
75-25-2	Bromoform	ND	1.0	0.31	ND	0.10	0.030	
100-42-5	Styrene	ND	1.0	0.31	ND	0.24	0.073	
95-47-6	o-Xylene	ND	1.0	0.31	ND	0.24	0.072	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.31	ND	0.15	0.045	
98-82-8	Cumene	ND	1.0	0.31	ND	0.21	0.063	
622-96-8	4-Ethyltoluene	ND	1.0	0.33	ND	0.21	0.067	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.33	ND	0.21	0.067	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.31	ND	0.21	0.063	
100-44-7	Benzyl Chloride	ND	1.0	0.23	ND	0.20	0.044	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.31	ND	0.17	0.052	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.29	ND	0.17	0.048	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.31	ND	0.17	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	0.33	ND	0.14	0.045	
91-20-3	Naphthalene	ND	1.0	0.37	ND	0.20	0.071	
87-68-3	Hexachlorobutadiene	ND	1.0	0.29	ND	0.097	0.027	

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

Client: **RAPCA**

Client Sample ID: **Method Blank** ALS Project ID: P1703291

Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P170711-MB

Test Code: EPA TO-15 Date Collected: NA

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

Analyst: Lusine Hakobyan Date Analyzed: 7/11/17

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data 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.

Client: **RAPCA**

Client Sample ID: **Method Blank** ALS Project ID: P1703291

Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P170711-MB

Test Code: EPA TO-15 Date Collected: NA

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

Analyst: Lusine Hakobyan Date Analyzed: 7/11/17

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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.

Client: **RAPCA**

Client Sample ID: **Method Blank** ALS Project ID: P1703291

Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P170711-MB

Test Code: EPA TO-15 Date Collected: NA

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

Analyst: Lusine Hakobyan Date Analyzed: 7/11/17

Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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

Client: **RAPCA**
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Project ID: P1703291

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 7/7/17
Analyst: Lusine Hakobyan Date(s) Received: 7/11/17
Sample Type: 6.0 L Silonite Canister(s) Date(s) Analyzed: 7/11/17
Test Notes:

Client Sample ID	ALS Sample ID	1,2-Dichloroethane-d4 Percent Recovered	Toluene-d8 Percent Recovered	Bromofluorobenzene Percent Recovered	Acceptance Limits	Data Qualifier
Method Blank	P170711-MB	**86**	**103**	**99**	70-130	
Lab Control Sample	P170711-LCS	**85**	**101**	**99**	70-130	
Can A - 070617	P1703291-001	**87**	**103**	**98**	70-130	
Can B - 070617	P1703291-002	**87**	**104**	**98**	70-130	
Can B - 070617	P1703291-002DUP	**86**	**102**	**97**	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

Client: **RAPCA**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P170711-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
115-07-1	Propene	210	**211**	**100**	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	**188**	**90**	68-109	
74-87-3	Chloromethane	210	**216**	**103**	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	**187**	**89**	66-114	
75-01-4	Vinyl Chloride	210	**211**	**100**	61-125	
106-99-0	1,3-Butadiene	210	**202**	**96**	62-144	
74-83-9	Bromomethane	210	**198**	**94**	73-123	
75-00-3	Chloroethane	210	**235**	**112**	69-122	
67-64-1	Acetone	1,060	**1080**	**102**	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	**188**	**90**	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	**409**	**96**	66-121	
75-35-4	1,1-Dichloroethene	213	**218**	**102**	76-118	
75-09-2	Methylene Chloride	212	**222**	**105**	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	**203**	**96**	73-114	
75-15-0	Carbon Disulfide	213	**231**	**108**	57-102	**L**
156-60-5	trans-1,2-Dichloroethene	213	**222**	**104**	74-123	
75-34-3	1,1-Dichloroethane	212	**219**	**103**	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	**204**	**96**	69-113	
108-05-4	Vinyl Acetate	1,060	**1180**	**111**	76-128	
78-93-3	2-Butanone (MEK)	212	**223**	**105**	63-127	
156-59-2	cis-1,2-Dichloroethene	212	**215**	**101**	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.
L = Laboratory control sample recovery outside the specified limits, results may be biased high.

ALS ENVIRONMENTAL

LABORATORY CONTROL SAMPLE SUMMARY

Client: **RAPCA**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P170711-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	Result µg/m³	% Recovery	ALS Acceptance Limits	Data Qualifier
141-78-6	Ethyl Acetate	426	**463**	**109**	68-127	
110-54-3	n-Hexane	213	**220**	**103**	55-116	
67-66-3	Chloroform	212	**200**	**94**	70-109	
109-99-9	Tetrahydrofuran (THF)	213	**211**	**99**	72-113	
107-06-2	1,2-Dichloroethane	212	**179**	**84**	69-113	
71-55-6	1,1,1-Trichloroethane	212	**188**	**89**	72-115	
71-43-2	Benzene	212	**211**	**100**	65-107	
56-23-5	Carbon Tetrachloride	213	**185**	**87**	71-113	
110-82-7	Cyclohexane	425	**439**	**103**	71-115	
78-87-5	1,2-Dichloropropane	212	**232**	**109**	71-115	
75-27-4	Bromodichloromethane	214	**201**	**94**	75-118	
79-01-6	Trichloroethene	212	**207**	**98**	68-114	
123-91-1	1,4-Dioxane	213	**222**	**104**	81-131	
142-82-5	n-Heptane	213	**224**	**105**	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	**220**	**105**	77-126	
108-10-1	4-Methyl-2-pentanone	213	**224**	**105**	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	**218**	**102**	79-125	
79-00-5	1,1,2-Trichloroethane	212	**218**	**103**	75-119	
108-88-3	Toluene	212	**215**	**101**	59-118	
591-78-6	2-Hexanone	213	**196**	**92**	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

Client: **RAPCA**
Client Sample ID: **Lab Control Sample** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P170711-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 0.125 Liter(s)
Test Notes:

CAS #	Compound	Spike Amount µg/m³	**Result µg/m³**	**% Recovery**	ALS Acceptance Limits	**Data Qualifier**
124-48-1	Dibromochloromethane	213	**200**	**94**	74-136	
106-93-4	1,2-Dibromoethane	212	**212**	**100**	73-131	
127-18-4	Tetrachloroethene	213	**202**	**95**	65-130	
108-90-7	Chlorobenzene	212	**211**	**100**	68-120	
100-41-4	Ethylbenzene	212	**206**	**97**	68-122	
179601-23-1	m,p-Xylenes	424	**398**	**94**	68-123	
75-25-2	Bromoform	212	**196**	**92**	69-130	
100-42-5	Styrene	212	**218**	**103**	71-133	
95-47-6	o-Xylene	212	**198**	**93**	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	**219**	**103**	69-130	
98-82-8	Cumene	212	**202**	**95**	70-123	
622-96-8	4-Ethyltoluene	212	**209**	**99**	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	**197**	**93**	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	**195**	**92**	67-129	
100-44-7	Benzyl Chloride	212	**213**	**100**	79-138	
541-73-1	1,3-Dichlorobenzene	212	**205**	**97**	65-136	
106-46-7	1,4-Dichlorobenzene	213	**208**	**98**	66-141	
95-50-1	1,2-Dichlorobenzene	212	**205**	**97**	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	**227**	**107**	64-134	
91-20-3	Naphthalene	214	**244**	**114**	62-136	
87-68-3	Hexachlorobutadiene	213	**201**	**94**	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

Client: **RAPCA**
Client Sample ID: **Can B - 070617** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-002DUP

Test Code: EPA TO-15 Date Collected: 7/7/17
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 7/11/17
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00024

Initial Pressure (psig): -5.86 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.07

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result** ppbV	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
Propene	0.625	0.363	0.633	0.368	0.629	**1**	25	**J**
Dichlorodifluoromethane (CFC 12)	2.08	0.420	2.09	0.423	2.085	**0.5**	25	
Chloromethane	0.348	0.168	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	8.67	3.65	8.66	3.65	8.665	**0.1**	25	**J**
Trichlorofluoromethane	1.15	0.205	1.18	0.209	1.165	**3**	25	
2-Propanol (Isopropyl Alcohol)	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	0.687	0.198	0.700	0.201	0.6935	**2**	25	**J**
Trichlorotrifluoroethane	0.457	0.0597	0.466	0.0608	0.4615	**2**	25	**J**
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
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)	0.969	0.329	0.960	0.326	0.9645	**0.9**	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

Client: **RAPCA**
Client Sample ID: **Can B - 070617** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-002DUP

Test Code: EPA TO-15 Date Collected: 7/7/17
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 7/11/17
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00024

Initial Pressure (psig): -5.86 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.07

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
Ethyl Acetate	0.907	0.252	0.903	0.251	0.905	**0.4**	25	**J**
n-Hexane	0.499	0.142	0.511	0.145	0.505	**2**	25	**J**
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	0.428	0.134	0.439	0.137	0.4335	**3**	25	**J**
Carbon Tetrachloride	0.360	0.0573	0.356	0.0566	0.358	**1**	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	1.53	0.406	1.52	0.404	1.525	**0.7**	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

Client: **RAPCA**
Client Sample ID: **Can B - 070617** ALS Project ID: P1703291
Client Project ID: **Community Air Toxics Monitoring 2017 / 2017-1** ALS Sample ID: P1703291-002DUP

Test Code: EPA TO-15 Date Collected: 7/7/17
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 7/11/17
Analyst: Lusine Hakobyan Date Analyzed: 7/11/17
Sample Type: 6.0 L Silonite Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: AS00024

Initial Pressure (psig): -5.86 Final Pressure (psig): 3.62

Canister Dilution Factor: 2.07

Compound	Sample Result µg/m³	Sample Result ppbV	**Duplicate Sample Result µg/m³**	**Duplicate Sample Result ppbV**	Average µg/m³	**% RPD**	RPD Limit	**Data Qualifier**
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	0.733	0.169	0.720	0.166	0.7265	**2**	25	**J**
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.
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.