



2655 Park Center Dr., Suite A
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www.alsglobal.com

LABORATORY REPORT

June 2, 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 May 30, 2017. For your reference, these analyses have been assigned our service request number P1702577.

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 11:03 am, 06/02/17

Kate Kaneko
Project Manager



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

Service Request No: P1702577

CASE NARRATIVE

The samples were received intact under chain of custody on May 30, 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	T104704413-16-7
Utah DOH (NELAP)	http://health.utah.gov/lab/environmental-lab-certification/	CA01627201 6-6
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
 Project ID: Community Air Toxics Monitoring 2017 / 2017-1

Service Request: P1702577

Date Received: 5/30/2017
 Time Received: 09:40

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-052517	P1702577-001	Air	5/26/2017	07:57	AS01056	-3.46	3.54	X	X
Can B-052517	P1702577-002	Air	5/26/2017	08:10	AS00030	-2.34	3.51	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. R1702577
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Company Name & Address (Reporting Information) Regional Air Pollution Control (RAPCA) 117 S. Main St. Dayton, OH 45422	Project Name Community Air Toxics Monitoring 2017 Project Number 2017-1	ALS Contact: K. Kaneko	Analysis Method TO-15 ASTM 5504	Comments e.g. Actual Preservative or specific instructions
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) John Rowe		

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	TO-15	ASTM 5504	
Can A - 052517	RAP005	5/25/17- 5/26/17	0813 - 0757	AS01056	SFC00128	- 30	- 11	6L	X	X	
Can B - 052517	RAP006	5/25/17- 5/26/17	0830 - 0810	AS00030	SFC00110	- 30	- 9	6L	X	X	

Report Tier Levels - please select						EDD required Yes / No _____ Type: _____ Units: _____			Chain of Custody Seal: (Circle) INTACT <u>BROKEN</u> ABSENT		Project Requirements (MRLs, QAPP)	
Tier I - Results (Default if not specified) _____ Tier II (Results + QC Summaries) X		Tier III (Results + QC & Calibration Summaries) _____ Tier IV (Data Validation Package) 10% Surcharge _____		Relinquished by: (Signature) [Signature]		Date: 5/26/17 Time: 0906		Received by: (Signature) [Signature]		Date: 5/30/17 Time: 0940		
Relinquished by: (Signature)		Date: _____ Time: _____		Received by: (Signature)		Date: _____ Time: _____		Cooler / Blank Temperature _____ °C				

ALS Environmental Sample Acceptance Check Form

Client: RAPCA Work order: P1702577
 Project: Community Air Toxics Monitoring 2017 / 2017-1
 Sample(s) received on: 5/30/17 Date opened: 5/30/17 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? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Were chain-of-custody papers used and filled out? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 8 Were custody seals on outside of cooler/Box/Container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s)? _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 9 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 11 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1702577-001.01	6.0 L Silonite Can					
P1702577-002.01	6.0 L Silonite Can					

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

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

Page 1 of 1

Client: RAPCA
Client Sample ID: Can A-052517
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702577
 ALS Sample ID: P1702577-001

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: AS01056

Date Collected: 5/26/17
 Time Collected: 07:57
 Date Received: 5/30/17
 Date Analyzed: 6/1/17
 Time Analyzed: 07:35
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -3.46 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.62

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	21	ND	8.1	
75-18-3	Dimethyl Sulfide	ND	21	ND	8.1	
75-15-0	Carbon Disulfide	ND	13	ND	4.1	
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	4.1	
616-44-4	3-Methylthiophene	ND	33	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	4.1	

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-052517
Client Project ID: Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1702577
 ALS Sample ID: P1702577-002

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: AS00030

Date Collected: 5/26/17
 Time Collected: 08:10
 Date Received: 5/30/17
 Date Analyzed: 6/1/17
 Time Analyzed: 07:50
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.47

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	10	ND	7.4	
463-58-1	Carbonyl Sulfide	ND	18	ND	7.4	
74-93-1	Methyl Mercaptan	ND	14	ND	7.4	
75-08-1	Ethyl Mercaptan	ND	19	ND	7.4	
75-18-3	Dimethyl Sulfide	ND	19	ND	7.4	
75-15-0	Carbon Disulfide	ND	11	ND	3.7	
75-33-2	Isopropyl Mercaptan	ND	23	ND	7.4	
75-66-1	tert-Butyl Mercaptan	ND	27	ND	7.4	
107-03-9	n-Propyl Mercaptan	ND	23	ND	7.4	
624-89-5	Ethyl Methyl Sulfide	ND	23	ND	7.4	
110-02-1	Thiophene	ND	25	ND	7.4	
513-44-0	Isobutyl Mercaptan	ND	27	ND	7.4	
352-93-2	Diethyl Sulfide	ND	27	ND	7.4	
109-79-5	n-Butyl Mercaptan	ND	27	ND	7.4	
624-92-0	Dimethyl Disulfide	ND	14	ND	3.7	
616-44-4	3-Methylthiophene	ND	29	ND	7.4	
110-01-0	Tetrahydrothiophene	ND	26	ND	7.4	
638-02-8	2,5-Dimethylthiophene	ND	34	ND	7.4	
872-55-9	2-Ethylthiophene	ND	34	ND	7.4	
110-81-6	Diethyl Disulfide	ND	18	ND	3.7	

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

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

ALS Project ID: P1702577
 ALS Sample ID: P170601-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: 6/01/17
 Time Analyzed: 07:14
 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: P1702577
ALS Sample ID: P170601-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: 6/01/17
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	1,060	106	75-148	
463-58-1	Carbonyl Sulfide	1,000	1,100	110	70-137	
74-93-1	Methyl Mercaptan	1,000	1,090	109	72-139	

ALS ENVIRONMENTAL

RESULTS OF ANALYSIS

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Client: RAPCA
Client Sample ID: Can A-052517

ALS Project ID: P1702577
 ALS Sample ID: P1702577-001

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:
 Container ID: AS01056

Date Collected: 5/26/17
 Date Received: 5/30/17
 Date Analyzed: 5/31/17
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.46 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.62

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	0.62	0.81	0.23	0.36	0.47	0.13	J
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	0.81	0.28	0.39	0.16	0.056	
74-87-3	Chloromethane	0.28	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	0.28	ND	0.32	0.11	
106-99-0	1,3-Butadiene	ND	0.81	0.36	ND	0.37	0.16	
74-83-9	Bromomethane	ND	0.81	0.31	ND	0.21	0.079	
75-00-3	Chloroethane	ND	0.81	0.28	ND	0.31	0.10	
67-64-1	Acetone	5.5	8.1	1.2	2.3	3.4	0.53	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	0.81	0.28	0.19	0.14	0.049	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	8.1	0.68	0.48	3.3	0.28	J
75-35-4	1,1-Dichloroethene	ND	0.81	0.28	ND	0.20	0.069	
75-09-2	Methylene Chloride	0.37	0.81	0.28	0.11	0.23	0.079	J
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.43	0.81	0.28	0.056	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	0.078	
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	0.28	ND	0.22	0.076	
108-05-4	Vinyl Acetate	ND	8.1	1.1	ND	2.3	0.30	
78-93-3	2-Butanone (MEK)	0.68	8.1	0.34	0.23	2.7	0.12	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-052517

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

ALS Project ID: P1702577

ALS Sample ID: P1702577-001

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: AS01056

Date Collected: 5/26/17

Date Received: 5/30/17

Date Analyzed: 5/31/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.46 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.62

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	2.4	1.6	0.57	0.67	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	0.28	ND	0.17	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	0.28	ND	0.15	0.050	
71-43-2	Benzene	ND	0.81	0.26	ND	0.25	0.081	
56-23-5	Carbon Tetrachloride	0.40	0.81	0.24	0.064	0.13	0.039	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	0.18	0.056	
75-27-4	Bromodichloromethane	ND	0.81	0.24	ND	0.12	0.036	
79-01-6	Trichloroethene	ND	0.81	0.23	ND	0.15	0.042	
123-91-1	1,4-Dioxane	ND	0.81	0.26	ND	0.22	0.072	
142-82-5	n-Heptane	ND	0.81	0.28	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	0.048	
108-88-3	Toluene	0.55	0.81	0.28	0.15	0.22	0.073	J
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.

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

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Client: RAPCA
Client Sample ID: Can A-052517

ALS Project ID: P1702577
 ALS Sample ID: P1702577-001

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:
 Container ID: AS01056

Date Collected: 5/26/17
 Date Received: 5/30/17
 Date Analyzed: 5/31/17
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.46 Final Pressure (psig): 3.54

Canister Dilution Factor: 1.62

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	0.11	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	0.18	0.056	
100-41-4	Ethylbenzene	ND	0.81	0.26	ND	0.19	0.060	
179601-23-1	m,p-Xylenes	ND	1.6	0.49	ND	0.37	0.11	
75-25-2	Bromoform	ND	0.81	0.24	ND	0.078	0.024	
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	0.053	
108-67-8	1,3,5-Trimethylbenzene	ND	0.81	0.26	ND	0.16	0.053	
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	0.056	
87-68-3	Hexachlorobutadiene	ND	0.81	0.23	ND	0.076	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

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Client: RAPCA
Client Sample ID: Can B-052517

ALS Project ID: P1702577
 ALS Sample ID: P1702577-002

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:
 Container ID: AS00030

Date Collected: 5/26/17
 Date Received: 5/30/17
 Date Analyzed: 5/31/17
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.47

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	0.25	0.74	0.21	0.15	0.43	0.12	J
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.74	0.25	0.40	0.15	0.051	
74-87-3	Chloromethane	0.29	0.74	0.22	0.14	0.36	0.11	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.74	0.28	ND	0.11	0.040	
75-01-4	Vinyl Chloride	ND	0.74	0.25	ND	0.29	0.098	
106-99-0	1,3-Butadiene	ND	0.74	0.32	ND	0.33	0.15	
74-83-9	Bromomethane	ND	0.74	0.28	ND	0.19	0.072	
75-00-3	Chloroethane	ND	0.74	0.25	ND	0.28	0.095	
67-64-1	Acetone	4.9	7.4	1.1	2.1	3.1	0.48	J
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	0.74	0.25	0.19	0.13	0.044	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	7.4	0.62	ND	3.0	0.25	
75-35-4	1,1-Dichloroethene	ND	0.74	0.25	ND	0.19	0.063	
75-09-2	Methylene Chloride	0.90	0.74	0.25	0.26	0.21	0.072	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.43	0.74	0.25	0.056	0.096	0.033	J
75-15-0	Carbon Disulfide	ND	7.4	0.22	ND	2.4	0.071	
156-60-5	trans-1,2-Dichloroethene	ND	0.74	0.28	ND	0.19	0.070	
75-34-3	1,1-Dichloroethane	ND	0.74	0.24	ND	0.18	0.058	
1634-04-4	Methyl tert-Butyl Ether	ND	0.74	0.25	ND	0.20	0.069	
108-05-4	Vinyl Acetate	ND	7.4	0.96	ND	2.1	0.27	
78-93-3	2-Butanone (MEK)	0.57	7.4	0.31	0.19	2.5	0.10	J
156-59-2	cis-1,2-Dichloroethene	ND	0.74	0.24	ND	0.19	0.059	

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.

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Client: RAPCA
Client Sample ID: Can B-052517

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

ALS Project ID: P1702577

ALS Sample ID: P1702577-002

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: AS00030

Date Collected: 5/26/17
 Date Received: 5/30/17
 Date Analyzed: 5/31/17
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.47

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	4.7	1.5	0.51	1.3	0.41	0.14	
110-54-3	n-Hexane	ND	0.74	0.22	ND	0.21	0.063	
67-66-3	Chloroform	ND	0.74	0.25	ND	0.15	0.051	
109-99-9	Tetrahydrofuran (THF)	ND	0.74	0.29	ND	0.25	0.10	
107-06-2	1,2-Dichloroethane	ND	0.74	0.24	ND	0.18	0.058	
71-55-6	1,1,1-Trichloroethane	ND	0.74	0.25	ND	0.13	0.046	
71-43-2	Benzene	0.25	0.74	0.24	0.079	0.23	0.074	J
56-23-5	Carbon Tetrachloride	0.35	0.74	0.22	0.055	0.12	0.035	J
110-82-7	Cyclohexane	ND	1.5	0.43	ND	0.43	0.12	
78-87-5	1,2-Dichloropropane	ND	0.74	0.24	ND	0.16	0.051	
75-27-4	Bromodichloromethane	ND	0.74	0.22	ND	0.11	0.033	
79-01-6	Trichloroethene	ND	0.74	0.21	ND	0.14	0.038	
123-91-1	1,4-Dioxane	ND	0.74	0.24	ND	0.20	0.065	
142-82-5	n-Heptane	0.37	0.74	0.25	0.090	0.18	0.061	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.74	0.21	ND	0.16	0.045	
108-10-1	4-Methyl-2-pentanone	ND	0.74	0.24	ND	0.18	0.057	
10061-02-6	trans-1,3-Dichloropropene	ND	0.74	0.24	ND	0.16	0.052	
79-00-5	1,1,2-Trichloroethane	ND	0.74	0.24	ND	0.13	0.043	
108-88-3	Toluene	0.62	0.74	0.25	0.17	0.20	0.066	J
591-78-6	2-Hexanone	ND	0.74	0.24	ND	0.18	0.057	

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.

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RESULTS OF ANALYSIS

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Client: RAPCA
Client Sample ID: Can B-052517

ALS Project ID: P1702577
 ALS Sample ID: P1702577-002

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:
 Container ID: AS00030

Date Collected: 5/26/17
 Date Received: 5/30/17
 Date Analyzed: 5/31/17
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.34 Final Pressure (psig): 3.51

Canister Dilution Factor: 1.47

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	0.74	0.24	ND	0.086	0.028	
106-93-4	1,2-Dibromoethane	ND	0.74	0.24	ND	0.096	0.031	
127-18-4	Tetrachloroethene	ND	0.74	0.21	ND	0.11	0.030	
108-90-7	Chlorobenzene	ND	0.74	0.24	ND	0.16	0.051	
100-41-4	Ethylbenzene	ND	0.74	0.24	ND	0.17	0.054	
179601-23-1	m,p-Xylenes	ND	1.5	0.44	ND	0.34	0.10	
75-25-2	Bromoform	ND	0.74	0.22	ND	0.071	0.021	
100-42-5	Styrene	ND	0.74	0.22	ND	0.17	0.052	
95-47-6	o-Xylene	ND	0.74	0.22	ND	0.17	0.051	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.74	0.22	ND	0.11	0.032	
98-82-8	Cumene	ND	0.74	0.22	ND	0.15	0.045	
622-96-8	4-Ethyltoluene	ND	0.74	0.24	ND	0.15	0.048	
108-67-8	1,3,5-Trimethylbenzene	ND	0.74	0.24	ND	0.15	0.048	
95-63-6	1,2,4-Trimethylbenzene	ND	0.74	0.22	ND	0.15	0.045	
100-44-7	Benzyl Chloride	ND	0.74	0.16	ND	0.14	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.74	0.22	ND	0.12	0.037	
106-46-7	1,4-Dichlorobenzene	ND	0.74	0.21	ND	0.12	0.034	
95-50-1	1,2-Dichlorobenzene	ND	0.74	0.22	ND	0.12	0.037	
120-82-1	1,2,4-Trichlorobenzene	ND	0.74	0.24	ND	0.099	0.032	
91-20-3	Naphthalene	ND	0.74	0.26	ND	0.14	0.050	
87-68-3	Hexachlorobutadiene	ND	0.74	0.21	ND	0.069	0.019	

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.

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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: P1702577
 ALS Sample ID: P170531-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/31/17
 Volume(s) Analyzed: 1.00 Liter(s)

Canister 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.

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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: P1702577
ALS Sample ID: P170531-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 5/31/17
Volume(s) Analyzed: 1.00 Liter(s)

Canister 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.

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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: P1702577
 ALS Sample ID: P170531-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: 5/31/17
 Volume(s) Analyzed: 1.00 Liter(s)

Canister 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: P1702577

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: 5/26/17
 Date(s) Received: 5/30/17
 Date(s) Analyzed: 5/31/17

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	P170531-MB	88	102	101	70-130	
Lab Control Sample	P170531-LCS	86	101	102	70-130	
Can A-052517	P1702577-001	89	101	101	70-130	
Can B-052517	P1702577-002	88	101	101	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: P1702577
 ALS Sample ID: P170531-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: 5/31/17
 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	186	89	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	165	79	68-109	
74-87-3	Chloromethane	210	177	84	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	167	79	66-114	
75-01-4	Vinyl Chloride	210	183	87	61-125	
106-99-0	1,3-Butadiene	210	174	83	62-144	
74-83-9	Bromomethane	210	172	82	73-123	
75-00-3	Chloroethane	210	202	96	69-122	
67-64-1	Acetone	1,060	947	89	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	166	79	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	356	84	66-121	
75-35-4	1,1-Dichloroethene	213	190	89	76-118	
75-09-2	Methylene Chloride	212	192	91	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	181	85	73-114	
75-15-0	Carbon Disulfide	213	199	93	57-102	
156-60-5	trans-1,2-Dichloroethene	213	194	91	74-123	
75-34-3	1,1-Dichloroethane	212	190	90	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	183	86	69-113	
108-05-4	Vinyl Acetate	1,060	1050	99	76-128	
78-93-3	2-Butanone (MEK)	212	194	92	63-127	
156-59-2	cis-1,2-Dichloroethene	212	187	88	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: P1702577
 ALS Sample ID: P170531-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: 5/31/17
 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	404	95	68-127	
110-54-3	n-Hexane	213	193	91	55-116	
67-66-3	Chloroform	212	175	83	70-109	
109-99-9	Tetrahydrofuran (THF)	213	185	87	72-113	
107-06-2	1,2-Dichloroethane	212	159	75	69-113	
71-55-6	1,1,1-Trichloroethane	212	165	78	72-115	
71-43-2	Benzene	212	182	86	65-107	
56-23-5	Carbon Tetrachloride	213	159	75	71-113	
110-82-7	Cyclohexane	425	386	91	71-115	
78-87-5	1,2-Dichloropropane	212	197	93	71-115	
75-27-4	Bromodichloromethane	214	176	82	75-118	
79-01-6	Trichloroethene	212	183	86	68-114	
123-91-1	1,4-Dioxane	213	194	91	81-131	
142-82-5	n-Heptane	213	193	91	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	192	91	77-126	
108-10-1	4-Methyl-2-pentanone	213	195	92	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	192	90	79-125	
79-00-5	1,1,2-Trichloroethane	212	190	90	75-119	
108-88-3	Toluene	212	189	89	59-118	
591-78-6	2-Hexanone	213	172	81	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: P1702577
 ALS Sample ID: P170531-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: 5/31/17
 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	175	82	74-136	
106-93-4	1,2-Dibromoethane	212	187	88	73-131	
127-18-4	Tetrachloroethene	213	181	85	65-130	
108-90-7	Chlorobenzene	212	186	88	68-120	
100-41-4	Ethylbenzene	212	181	85	68-122	
179601-23-1	m,p-Xylenes	424	351	83	68-123	
75-25-2	Bromoform	212	176	83	69-130	
100-42-5	Styrene	212	193	91	71-133	
95-47-6	o-Xylene	212	176	83	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	189	89	69-130	
98-82-8	Cumene	212	179	84	70-123	
622-96-8	4-Ethyltoluene	212	181	85	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	174	82	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	172	81	67-129	
100-44-7	Benzyl Chloride	212	186	88	79-138	
541-73-1	1,3-Dichlorobenzene	212	183	86	65-136	
106-46-7	1,4-Dichlorobenzene	213	185	87	66-141	
95-50-1	1,2-Dichlorobenzene	212	183	86	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	198	93	64-134	
91-20-3	Naphthalene	214	211	99	62-136	
87-68-3	Hexachlorobutadiene	213	179	84	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.