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[www.alsglobal.com](http://www.alsglobal.com)

## LABORATORY REPORT

July 27, 2017

Stephanie Madden  
RAPCA  
117 S Main Street  
Dayton, OH 45422

### RE: Community Air Toxics Monitoring 2017

Dear Stephanie:

Enclosed are the results of the sample submitted to our laboratory on July 24, 2017. For your reference, these analyses have been assigned our service request number P1703508.

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](http://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 12:43 pm, 07/27/17

Kate Kaneko  
Project Manager



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Client: RAPCA  
Project: Community Air Toxics Monitoring 2017

Service Request No: P1703508

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## CASE NARRATIVE

The sample was received intact under chain of custody on July 24, 2017 and was 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 sample at the time of sample receipt.

The analyses for sample Can B - 071817 (P1703508-002) were cancelled because the valve was found to be leaking.

### Sulfur Analysis

The sample was 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 sample was 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 container was 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.

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*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	<a href="http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home">http://www.azdhs.gov/preparedness/state-laboratory/lab-licensure-certification/index.php#laboratory-licensure-home</a>	AZ0694
Florida DOH (NELAP)	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E871020
Louisiana DEQ (NELAP)	<a href="http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx">http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx</a>	05071
Maine DHHS	<a href="http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm">http://www.maine.gov/dhhs/mecdc/environmental-health/water/dwp-services/labcert/labcert.htm</a>	2016036
Minnesota DOH (NELAP)	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	1177034
New Jersey DEP (NELAP)	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	CA009
New York DOH (NELAP)	<a href="http://www.wadsworth.org/labcert/elap/elap.html">http://www.wadsworth.org/labcert/elap/elap.html</a>	11221
Oregon PHD (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	4068-004
Pennsylvania DEP	<a href="http://www.depweb.state.pa.us/labs">http://www.depweb.state.pa.us/labs</a>	68-03307 (Registration)
PJLA (DoD ELAP)	<a href="http://www.pjlabs.com/search-accredited-labs">http://www.pjlabs.com/search-accredited-labs</a>	65818 (Testing)
Texas CEQ (NELAP)	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704413-17-8
Utah DOH (NELAP)	<a href="http://health.utah.gov/lab/environmental-lab-certification/">http://health.utah.gov/lab/environmental-lab-certification/</a>	CA01627201 6-6
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	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](http://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: P1703508

Date Received: 7/24/2017  
 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)		
Can A - 071817	P1703508-001	Air	7/19/2017	08:02	AS01193	-1.93	3.83	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.  
**P1703508**

Company Name & Address (Reporting Information) <b>Regional Air Pollution Control (RAPCA)</b> 117 S. Main St. Dayton, OH 45422		Project Name <b>Community Air Toxics Monitoring 2017</b>		ALS Contact: K. Kaneko		Comments e.g. Actual Preservative or specific instructions
Project Manager Stephanie Madden Phone 937-225-5922 Fax 937-225-3486 Email Address for Result Reporting <b>smadden@rapca.org and aroth@rapca.org</b>		Project Number 2017-1		<b>Analysis Method</b>		
P.O. # / Billing Information: PO# 702021 Public Health Dayton Montgomery County (PHDMC) Attn: Accounting 117 S. Main St. Dayton, OH 45422		Sampler (Print & Sign) <i>Date L. Davidson</i>		TO-15		ASTM 5504
Laboratory ID Number RAP039 RAP040		Canister ID (Bar code # - AC, SC, etc.) AS01193 AS00599		Canister Start Pressure "Hg 30 30		
Client Sample ID Can A - 071817 Can B - 071817		Date 7/18/17 7/19/17		Canister End Pressure "Hg/psig 6 7.5		Sample Volume 6L 6L
Time 0811 0802 0824 0815		Flow Controller ID (Bar code # - FC #) SFC00178 SFC00984		X X		
Report Tier Levels - please select 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) <i>[Signature]</i>		Date: 7/17/17 Time: 0710		Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT		Project Requirements (MIRLS, QAPP)
Relinquished by: (Signature) <i>[Signature]</i>		Date: 7/17/17 Time: 0930		Received by: (Signature) <i>[Signature]</i>		
Cooler / Blank Temperature _____ °C						

**ALS Environmental  
Sample Acceptance Check Form**

Client: RAPCA Work order: P1703508  
 Project: Community Air Toxics Monitoring 2017 / 2017-1  
 Sample(s) received on: 7/24/17 Date opened: 7/24/17 by: E.PEREZ

**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 <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2 Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3 Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4 Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5 Was <b>sample volume</b> 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 <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8 Were <b>custody seals</b> 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 <b>preservation</b> , 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 <b>pH</b> preserved?                                | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| Were <b>VOA vials</b> 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 <b>Tubes:</b> Are the tubes capped and intact?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 11 <b>Badges:</b> 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
P1703508-001.01	6.0 L Silonite Can					
P1703508-002.01	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

Page 1 of 1

**Client:** RAPCA  
**Client Sample ID:** Can A - 071817  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703508  
 ALS Sample ID: P1703508-001

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: AS01193

Date Collected: 7/19/17  
 Time Collected: 08:02  
 Date Received: 7/24/17  
 Date Analyzed: 7/24/17  
 Time Analyzed: 14:53  
 Volume(s) Analyzed: 1.0 ml(s)

Initial Pressure (psig): -1.93      Final Pressure (psig): 3.83

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	Data Qualifier
7783-06-4	Hydrogen Sulfide	ND	10	ND	7.3	
463-58-1	Carbonyl Sulfide	ND	18	ND	7.3	
74-93-1	Methyl Mercaptan	ND	14	ND	7.3	
75-08-1	Ethyl Mercaptan	ND	18	ND	7.3	
75-18-3	Dimethyl Sulfide	ND	18	ND	7.3	
75-15-0	Carbon Disulfide	ND	11	ND	3.6	
75-33-2	Isopropyl Mercaptan	ND	23	ND	7.3	
75-66-1	tert-Butyl Mercaptan	ND	27	ND	7.3	
107-03-9	n-Propyl Mercaptan	ND	23	ND	7.3	
624-89-5	Ethyl Methyl Sulfide	ND	23	ND	7.3	
110-02-1	Thiophene	ND	25	ND	7.3	
513-44-0	Isobutyl Mercaptan	ND	27	ND	7.3	
352-93-2	Diethyl Sulfide	ND	27	ND	7.3	
109-79-5	n-Butyl Mercaptan	ND	27	ND	7.3	
624-92-0	Dimethyl Disulfide	ND	14	ND	3.6	
616-44-4	3-Methylthiophene	ND	29	ND	7.3	
110-01-0	Tetrahydrothiophene	ND	26	ND	7.3	
638-02-8	2,5-Dimethylthiophene	ND	33	ND	7.3	
872-55-9	2-Ethylthiophene	ND	33	ND	7.3	
110-81-6	Diethyl Disulfide	ND	18	ND	3.6	

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: P1703508  
 ALS Sample ID: P170724-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: 7/24/17  
 Time Analyzed: 08:22  
 Volume(s) Analyzed: 1.0 ml(s)

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	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: P1703508  
ALS Sample ID: P170724-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: 7/24/17  
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	926	93	81-141	
463-58-1	Carbonyl Sulfide	1,000	954	95	81-147	
74-93-1	Methyl Mercaptan	1,000	955	96	80-144	

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 1 of 3

**Client:** RAPCA

**Client Sample ID:** Can A - 071817

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

ALS Project ID: P1703508

ALS Sample ID: P1703508-001

Test Code: EPA TO-15

Date Collected: 7/19/17

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Date Received: 7/24/17

Analyst: Wida Ang

Date Analyzed: 7/25/17

Sample Type: 6.0 L Silonite Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AS01193

Initial Pressure (psig): -1.93      Final Pressure (psig): 3.83

Container Dilution Factor: 1.45

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	ppbV	Qualifier
115-07-1	Propene	3.0	0.73	0.20	1.8	0.42	0.12	
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	0.73	0.25	0.39	0.15	0.050	
74-87-3	Chloromethane	0.32	0.73	0.22	0.15	0.35	0.11	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	0.28	ND	0.10	0.039	
75-01-4	Vinyl Chloride	ND	0.73	0.25	ND	0.28	0.096	
106-99-0	1,3-Butadiene	ND	0.73	0.32	ND	0.33	0.14	
74-83-9	Bromomethane	ND	0.73	0.28	ND	0.19	0.071	
75-00-3	Chloroethane	ND	0.73	0.25	ND	0.27	0.093	
67-64-1	Acetone	14	7.3	1.1	5.8	3.1	0.47	
75-69-4	Trichlorofluoromethane (CFC 11)	1.3	0.73	0.25	0.23	0.13	0.044	
67-63-0	2-Propanol (Isopropyl Alcohol)	7.4	7.3	0.61	3.0	3.0	0.25	
75-35-4	1,1-Dichloroethene	ND	0.73	0.25	ND	0.18	0.062	
75-09-2	Methylene Chloride	0.75	0.73	0.25	0.22	0.21	0.071	
76-13-1	Trichlorotrifluoroethane (CFC 113)	0.44	0.73	0.25	0.058	0.095	0.032	J
75-15-0	Carbon Disulfide	3.3	7.3	0.22	1.0	2.3	0.070	J
156-60-5	trans-1,2-Dichloroethene	ND	0.73	0.28	ND	0.18	0.070	
75-34-3	1,1-Dichloroethane	ND	0.73	0.23	ND	0.18	0.057	
1634-04-4	Methyl tert-Butyl Ether	ND	0.73	0.25	ND	0.20	0.068	
108-05-4	Vinyl Acetate	1.4	7.3	0.94	0.40	2.1	0.27	J
78-93-3	2-Butanone (MEK)	2.1	7.3	0.30	0.71	2.5	0.10	J
156-59-2	cis-1,2-Dichloroethene	ND	0.73	0.23	ND	0.18	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.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

Page 2 of 3

**Client:** RAPCA  
**Client Sample ID:** Can A - 071817  
**Client Project ID:** Community Air Toxics Monitoring 2017 / 2017-1

ALS Project ID: P1703508  
 ALS Sample ID: P1703508-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:  
 Container ID: AS01193

Date Collected: 7/19/17  
 Date Received: 7/24/17  
 Date Analyzed: 7/25/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.93      Final Pressure (psig): 3.83

Container Dilution Factor: 1.45

CAS #	Compound	Result μg/m <sup>3</sup>	MRL μg/m <sup>3</sup>	MDL μg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
141-78-6	Ethyl Acetate	2.5	1.5	0.51	0.69	0.40	0.14	
110-54-3	n-Hexane	0.49	0.73	0.22	0.14	0.21	0.062	J
67-66-3	Chloroform	ND	0.73	0.25	ND	0.15	0.050	
109-99-9	Tetrahydrofuran (THF)	ND	0.73	0.29	ND	0.25	0.098	
107-06-2	1,2-Dichloroethane	ND	0.73	0.23	ND	0.18	0.057	
71-55-6	1,1,1-Trichloroethane	ND	0.73	0.25	ND	0.13	0.045	
71-43-2	Benzene	0.41	0.73	0.23	0.13	0.23	0.073	J
56-23-5	Carbon Tetrachloride	0.38	0.73	0.22	0.061	0.12	0.035	J
110-82-7	Cyclohexane	ND	1.5	0.42	ND	0.42	0.12	
78-87-5	1,2-Dichloropropane	ND	0.73	0.23	ND	0.16	0.050	
75-27-4	Bromodichloromethane	ND	0.73	0.22	ND	0.11	0.032	
79-01-6	Trichloroethene	ND	0.73	0.20	ND	0.13	0.038	
123-91-1	1,4-Dioxane	ND	0.73	0.23	ND	0.20	0.064	
142-82-5	n-Heptane	0.27	0.73	0.25	0.065	0.18	0.060	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	0.20	ND	0.16	0.045	
108-10-1	4-Methyl-2-pentanone	0.24	0.73	0.23	0.059	0.18	0.057	J
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	0.23	ND	0.16	0.051	
79-00-5	1,1,2-Trichloroethane	ND	0.73	0.23	ND	0.13	0.043	
108-88-3	Toluene	1.2	0.73	0.25	0.33	0.19	0.065	
591-78-6	2-Hexanone	ND	0.73	0.23	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.

# ALS ENVIRONMENTAL

## RESULTS OF ANALYSIS

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**Client:** RAPCA

**Client Sample ID:** Can A - 071817

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

ALS Project ID: P1703508

ALS Sample ID: P1703508-001

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8

Analyst: Wida Ang

Sample Type: 6.0 L Silonite Canister

Test Notes:

Container ID: AS01193

Date Collected: 7/19/17

Date Received: 7/24/17

Date Analyzed: 7/25/17

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -1.93      Final Pressure (psig): 3.83

Container Dilution Factor: 1.45

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
124-48-1	Dibromochloromethane	ND	0.73	0.23	ND	0.085	0.027	
106-93-4	1,2-Dibromoethane	ND	0.73	0.23	ND	0.094	0.030	
127-18-4	Tetrachloroethene	ND	0.73	0.20	ND	0.11	0.030	
108-90-7	Chlorobenzene	ND	0.73	0.23	ND	0.16	0.050	
100-41-4	Ethylbenzene	<b>0.30</b>	0.73	0.23	<b>0.068</b>	0.17	0.053	<b>J</b>
179601-23-1	m,p-Xylenes	<b>1.1</b>	1.5	0.44	<b>0.25</b>	0.33	0.10	<b>J</b>
75-25-2	Bromoform	ND	0.73	0.22	ND	0.070	0.021	
100-42-5	Styrene	ND	0.73	0.22	ND	0.17	0.051	
95-47-6	o-Xylene	<b>0.40</b>	0.73	0.22	<b>0.093</b>	0.17	0.050	<b>J</b>
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.73	0.22	ND	0.11	0.032	
98-82-8	Cumene	ND	0.73	0.22	ND	0.15	0.044	
622-96-8	4-Ethyltoluene	ND	0.73	0.23	ND	0.15	0.047	
108-67-8	1,3,5-Trimethylbenzene	ND	0.73	0.23	ND	0.15	0.047	
95-63-6	1,2,4-Trimethylbenzene	<b>0.29</b>	0.73	0.22	<b>0.058</b>	0.15	0.044	<b>J</b>
100-44-7	Benzyl Chloride	ND	0.73	0.16	ND	0.14	0.031	
541-73-1	1,3-Dichlorobenzene	ND	0.73	0.22	ND	0.12	0.036	
106-46-7	1,4-Dichlorobenzene	ND	0.73	0.20	ND	0.12	0.034	
95-50-1	1,2-Dichlorobenzene	ND	0.73	0.22	ND	0.12	0.036	
120-82-1	1,2,4-Trichlorobenzene	ND	0.73	0.23	ND	0.098	0.031	
91-20-3	Naphthalene	<b>0.52</b>	0.73	0.26	<b>0.10</b>	0.14	0.050	<b>J</b>
87-68-3	Hexachlorobutadiene	ND	0.73	0.20	ND	0.068	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.

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 1 of 3

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

ALS Project ID: P1703508  
 ALS Sample ID: P170725-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/25/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	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

Page 2 of 3

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

ALS Project ID: P1703508  
 ALS Sample ID: P170725-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/25/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	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

Page 3 of 3

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

ALS Project ID: P1703508  
 ALS Sample ID: P170725-MB

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/25/17  
 Volume(s) Analyzed: 1.00 Liter(s)

Container Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	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: P1703508

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister(s)  
 Test Notes:

Date(s) Collected: 7/19/17  
 Date(s) Received: 7/24/17  
 Date(s) Analyzed: 7/25/17

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	P170725-MB	<b>98</b>	<b>99</b>	<b>104</b>	70-130	
Lab Control Sample	P170725-LCS	<b>96</b>	<b>97</b>	<b>106</b>	70-130	
Can A - 071817	P1703508-001	<b>97</b>	<b>95</b>	<b>110</b>	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: P1703508  
 ALS Sample ID: P170725-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/25/17  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	210	168	80	52-127	
75-71-8	Dichlorodifluoromethane (CFC 12)	210	174	83	68-109	
74-87-3	Chloromethane	210	189	90	51-130	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	211	174	82	66-114	
75-01-4	Vinyl Chloride	210	194	92	61-125	
106-99-0	1,3-Butadiene	210	198	94	62-144	
74-83-9	Bromomethane	210	212	101	73-123	
75-00-3	Chloroethane	210	188	90	69-122	
67-64-1	Acetone	1,060	934	88	57-117	
75-69-4	Trichlorofluoromethane (CFC 11)	210	172	82	63-98	
67-63-0	2-Propanol (Isopropyl Alcohol)	424	366	86	66-121	
75-35-4	1,1-Dichloroethene	213	184	86	76-118	
75-09-2	Methylene Chloride	212	193	91	60-118	
76-13-1	Trichlorotrifluoroethane (CFC 113)	212	181	85	73-114	
75-15-0	Carbon Disulfide	213	189	89	57-102	
156-60-5	trans-1,2-Dichloroethene	213	190	89	74-123	
75-34-3	1,1-Dichloroethane	212	179	84	69-111	
1634-04-4	Methyl tert-Butyl Ether	213	183	86	69-113	
108-05-4	Vinyl Acetate	1,060	1080	102	76-128	
78-93-3	2-Butanone (MEK)	212	202	95	63-127	
156-59-2	cis-1,2-Dichloroethene	212	183	86	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: P1703508  
 ALS Sample ID: P170725-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/25/17  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
141-78-6	Ethyl Acetate	426	398	93	68-127	
110-54-3	n-Hexane	213	172	81	55-116	
67-66-3	Chloroform	212	179	84	70-109	
109-99-9	Tetrahydrofuran (THF)	213	187	88	72-113	
107-06-2	1,2-Dichloroethane	212	178	84	69-113	
71-55-6	1,1,1-Trichloroethane	212	177	83	72-115	
71-43-2	Benzene	212	175	83	65-107	
56-23-5	Carbon Tetrachloride	213	181	85	71-113	
110-82-7	Cyclohexane	425	351	83	71-115	
78-87-5	1,2-Dichloropropane	212	180	85	71-115	
75-27-4	Bromodichloromethane	214	190	89	75-118	
79-01-6	Trichloroethene	212	182	86	68-114	
123-91-1	1,4-Dioxane	213	195	92	81-131	
142-82-5	n-Heptane	213	176	83	68-116	
10061-01-5	cis-1,3-Dichloropropene	210	200	95	77-126	
108-10-1	4-Methyl-2-pentanone	213	211	99	69-126	
10061-02-6	trans-1,3-Dichloropropene	213	218	102	79-125	
79-00-5	1,1,2-Trichloroethane	212	192	91	75-119	
108-88-3	Toluene	212	172	81	59-118	
591-78-6	2-Hexanone	213	204	96	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: P1703508  
 ALS Sample ID: P170725-LCS

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS8  
 Analyst: Wida Ang  
 Sample Type: 6.0 L Silonite Canister  
 Test Notes:

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 7/25/17  
 Volume(s) Analyzed: 0.125 Liter(s)

CAS #	Compound	Spike Amount µg/m <sup>3</sup>	Result µg/m <sup>3</sup>	% Recovery	ALS	Data Qualifier
					Acceptance Limits	
124-48-1	Dibromochloromethane	213	196	92	74-136	
106-93-4	1,2-Dibromoethane	212	201	95	73-131	
127-18-4	Tetrachloroethene	213	187	88	65-130	
108-90-7	Chlorobenzene	212	177	83	68-120	
100-41-4	Ethylbenzene	212	182	86	68-122	
179601-23-1	m,p-Xylenes	424	359	85	68-123	
75-25-2	Bromoform	212	203	96	69-130	
100-42-5	Styrene	212	203	96	71-133	
95-47-6	o-Xylene	212	180	85	68-122	
79-34-5	1,1,2,2-Tetrachloroethane	212	188	89	69-130	
98-82-8	Cumene	212	180	85	70-123	
622-96-8	4-Ethyltoluene	212	188	89	67-130	
108-67-8	1,3,5-Trimethylbenzene	212	179	84	67-124	
95-63-6	1,2,4-Trimethylbenzene	212	184	87	67-129	
100-44-7	Benzyl Chloride	212	226	107	79-138	
541-73-1	1,3-Dichlorobenzene	212	196	92	65-136	
106-46-7	1,4-Dichlorobenzene	213	197	92	66-141	
95-50-1	1,2-Dichlorobenzene	212	188	89	67-136	
120-82-1	1,2,4-Trichlorobenzene	212	212	100	64-134	
91-20-3	Naphthalene	214	221	103	62-136	
87-68-3	Hexachlorobutadiene	213	176	83	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.