



26-Jun-2017

Stephanie Madden  
RAPCA / Combined Health District  
117 S. Main Street  
Dayton, OH 45422

Tel: (937) 225-5922  
Fax: 937-225-3486

Re: 2017-1; Community Air Toxics Monitoring 2017

Work Order: **1706459**

Dear Stephanie,

ALS Environmental received 2 samples on 14-Jun-2017 04:30 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 7.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

**Shawn Smythe**

Electronically approved by: Shawn Smythe

Shawn Smythe  
Project Manager

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**Client:** RAPCA / Combined Health District  
**Project:** 2017-1; Community Air Toxics Monitoring 2017  
**Work Order:** 1706459

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1706459-01	Badge A- 061217	Air		6/13/2017	6/15/2017	<input type="checkbox"/>
1706459-02	Badge B- 061217	Air		6/13/2017	6/15/2017	<input type="checkbox"/>

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**Case Narrative**

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

**Client:** RAPCA / Combined Health District  
**Project:** 2017-1; Community Air Toxics Monitoring 2017

**Work Order:** 1706459

**Analytical Results**

**Lab ID:** 1706459-01A  
**Client Sample ID:** Badge A- 061217

**Collection Date:** 6/13/2017  
**Matrix:** AIR

**Analyses**

<b>ALDEHYDE(S) BY OSHA 1007 MOD.</b>		Method: <b>O1007</b>	Time (Min): <b>1434</b>	Analyst: <b>MHW</b>
Date Analyzed: 6/24/2017				
	µg/sample	Reporting Limit µg/sample	ppm	
Acetaldehyde	ND	0.20	<0.0034	
Benzaldehyde	ND	0.20	<0.0023	
Butyraldehyde	ND	0.20	<0.0029	
Crotonaldehyde	ND	0.20	<0.0050	
<b>Formaldehyde</b>	<b>0.22</b>	<b>0.20</b>	<b>0.0044</b>	
Hexanaldehyde	ND	0.20	<0.0035	
Propionaldehyde	ND	0.20	<0.0042	

**Lab ID:** 1706459-02A  
**Client Sample ID:** Badge B- 061217

**Collection Date:** 6/13/2017  
**Matrix:** AIR

**Analyses**

<b>ALDEHYDE(S) BY OSHA 1007 MOD.</b>		Method: <b>O1007</b>	Time (Min): <b>1434</b>	Analyst: <b>MHW</b>
Date Analyzed: 6/24/2017				
	µg/sample	Reporting Limit µg/sample	ppm	
Acetaldehyde	ND	0.20	<0.0034	
Benzaldehyde	ND	0.20	<0.0023	
Butyraldehyde	ND	0.20	<0.0029	
Crotonaldehyde	ND	0.20	<0.0050	
<b>Formaldehyde</b>	<b>0.27</b>	<b>0.20</b>	<b>0.0053</b>	
Hexanaldehyde	ND	0.20	<0.0035	
Propionaldehyde	ND	0.20	<0.0042	

**Note:**

Client: RAPCA / Combined Health District

**QC BATCH REPORT**

Work Order: 1706459

Project: 2017-1; Community Air Toxics Monitoring 2017

Batch ID: 43991

Instrument ID: HPLC2

Method: O1007

<b>MBLK</b>	Sample ID: <b>MBLK-43991-43991</b>			Units: <b>µg/sample</b>			Analysis Date: <b>6/24/2017</b>			
Client ID:	Run ID: <b>HPLC2_170624A</b>			SeqNo: <b>1532973</b>			Prep Date: <b>6/24/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Acetaldehyde	ND	0.20								
Benzaldehyde	ND	0.20								
Butyraldehyde	ND	0.20								
Crotonaldehyde	ND	0.20								
Formaldehyde	ND	0.20								
Hexanaldehyde	ND	0.20								
Propionaldehyde	ND	0.20								

<b>LCS</b>	Sample ID: <b>LCS-43991-43991</b>			Units: <b>µg/sample</b>			Analysis Date: <b>6/24/2017</b>			
Client ID:	Run ID: <b>HPLC2_170624A</b>			SeqNo: <b>1532974</b>			Prep Date: <b>6/24/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Acetaldehyde	1.489	0.20	1.5	0	99.3	70-130	0			
Benzaldehyde	1.492	0.20	1.5	0	99.5	70-130	0			
Butyraldehyde	1.495	0.20	1.5	0	99.7	70-130	0			
Crotonaldehyde	1.486	0.20	1.5	0	99.1	70-130	0			
Formaldehyde	1.477	0.20	1.5	0	98.5	70-130	0			
Hexanaldehyde	2.995	0.20	3	0	99.8	70-130	0			
Propionaldehyde	1.481	0.20	1.5	0	98.7	70-130	0			

<b>LCSD</b>	Sample ID: <b>LCSD-43991-43991</b>			Units: <b>µg/sample</b>			Analysis Date: <b>6/24/2017</b>			
Client ID:	Run ID: <b>HPLC2_170624A</b>			SeqNo: <b>1532987</b>			Prep Date: <b>6/24/2017</b>		DF: <b>1</b>	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Acetaldehyde	1.534	0.20	1.5	0	102	70-130	1.489	2.98	20	
Benzaldehyde	1.525	0.20	1.5	0	102	70-130	1.492	2.18	20	
Butyraldehyde	1.529	0.20	1.5	0	102	70-130	1.495	2.24	20	
Crotonaldehyde	1.52	0.20	1.5	0	101	70-130	1.486	2.25	20	
Formaldehyde	1.527	0.20	1.5	0	102	70-130	1.477	3.35	20	
Hexanaldehyde	3.014	0.20	3	0	100	70-130	2.995	0.619	20	
Propionaldehyde	1.518	0.20	1.5	0	101	70-130	1.481	2.47	20	

The following samples were analyzed in this batch:

1706459-01A	1706459-02A
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**Client:** RAPCA / Combined Health District  
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**WorkOrder:** 1706459

**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
μg/sample	

Sample Receipt Checklist

Client Name: RAPCA-DAYTON

Date/Time Received: 14-Jun-17 16:30

Work Order: 1706459

Received by: SNH

Checklist completed by: Shawn Smythe 21-Jun-17  
eSignature | Date

Reviewed by: Shawn Smythe 21-Jun-17  
eSignature | Date

Matrices:

Carrier name: Courier

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time? Yes  No
- Container/Temp Blank temperature in compliance? Yes  No

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by:

Login Notes:

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Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: