



Jim Angers  
Lebanon Water Filtration Facility  
65 Pumping Station Road  
Lebanon , NH 03766



Subject: Laboratory Report

Eastern Analytical, Inc. ID: 136172  
Client Identification: UCMR3 | September 2014  
Date Received: 9/25/2014

Dear Mr. Angers :

Enclosed please find the report of analysis for the above identified project.  
As discussed, analyses were subcontracted and are listed as follows:

Analysis: Subcontract - UCMR3 Methods

Subcontractor Lab: American Water

A complete copy of the report is attached. This report may not be reproduced except in full, without the written approval of the laboratory.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

  
\_\_\_\_\_

Lorraine Olashaw, Lab Director

12-12-14

Date

18

# of pages (excluding cover letter)



# SAMPLE CONDITIONS PAGE

EAI ID#: 136172

Client: **Lebanon Water Filtration Facility**

Client Designation: **UCMR3 | September 2014**

**Temperature upon receipt (°C): 3**

**Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
136172.01	Lab Sink AM	9/25/14	9/24/14	aqueous		Adheres to Sample Acceptance Policy
136172.02	MRT in DS System AM	9/25/14	9/24/14	aqueous		Adheres to Sample Acceptance Policy

*Samples were properly preserved and the pH measured when applicable unless otherwise noted. Analysis of solids for pH, Flashpoint, Ignitibility, Paint Filter, Corrosivity, Conductivity and Specific Gravity are reported on an "as received" basis. Immediate analyses, pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite, performed at the laboratory were run outside of the recommended 15 minute hold time.*

*All results contained in this report relate only to the above listed samples.*

References include:

- 1) EPA 600/4-79-020, 1983
- 2) Standard Methods for Examination of Water and Wastewater, 20th Edition, 1998 and 22nd Edition, 2012
- 3) Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- 4) Hach Water Analysis Handbook, 2nd edition, 1992



American Water  
1115 South Illinois Street  
Belleville, IL 62220-3102  
Phone: (618) 235-3600  
Fax: (618) 235-6349

October 24, 2014

Jennifer Jurta  
Eastern Analytical, Inc.  
25 Chenell Drive  
Concord, NH 03301

RE: Workorder: 273497 Lab Sink UL1 SE1  
Workorder: 1331 LebanonWater

Dear Jennifer Jurta:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, September 26, 2014. All analyses are performed using approved drinking water methodologies and meet method requirements unless otherwise noted. Enclosed are the analytical results for this Workorder only. Each state may not offer certification for all analyses reported.

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

Sincerely,

Cindy Nettrour (Digitally Signed)

Report ID: 273497

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### CERTIFICATE OF ANALYSIS

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### SAMPLE SUMMARY

Client: E Analytical Eastern Analytical Inc - NH  
Profile: 1331 Lebanon Water Department  
Workorder: 273497 Lab Sink UL1 SE1

Test results meet all requirements of NELAP.

Lab ID	Sample ID	Matrix		
PWSID	Facility ID	Site ID	Site Sample Type	Certified Lab ID
27349701	Lab Sink AM		Drinking Water	
NH1321010	0001	001	EP	IL00028

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## PROJECT SUMMARY

Client: E Analytical Eastern Analytical Inc - NH  
Profile: 1331 Lebanon Water Department  
Workorder: 273497 Lab Sink UL1 SE1

### Sample Analysis Comments

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Lab ID 98510 Client ID EPTDS Well 9 AM(27351701LFSML)

#### Analyte/Molybdenum

N = Spiked analyte recovery in sample matrix is outside control limits.

Lab ID 98511 Client ID EPTDS Well ...(27351701LFSMLD)

#### Analyte/Chromium

N = Spiked analyte recovery in sample matrix is outside control limits.

#### Analyte/Molybdenum

N = Spiked analyte recovery in sample matrix is outside control limits.

#### Analyte/Vanadium

N = Spiked analyte recovery in sample matrix is outside control limits.

Lab ID 98676 Client ID EPTDS Well 5 AM(26873601LFSML)

#### Analyte/1,3-Butadiene

N = Spiked analyte recovery in sample matrix is outside control limits.

#### Analyte/Chlorodifluoromethane

N = Spiked analyte recovery in sample matrix is outside control limits.

Lab ID 98806 Client ID Dalton Pharm...(26873001LFSML)

#### Analyte/Chromium (VI)

N = Spiked analyte recovery in sample matrix is outside control limits.

Lab ID 98809 Client ID CCCHI for HBN 29955 [IC/2925]

#### Analyte/Chromium (VI)

A = Spiked analyte recovery is outside control limits.

Lab ID 99312 Client ID EPTDS Well 6 AM(26873801LFSML)

#### Analyte/Chlorate

N = Spiked analyte recovery in sample matrix is outside control limits.

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### PROJECT SUMMARY

Client: E Analytical Eastern Analytical Inc - NH  
Profile: 1331 Lebanon Water Department  
Workorder: 273497 Lab Sink UL1 SE1

#### Sample Analysis Comments

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Lab ID 99313 Client ID EPTDS Well ...(26873801LFSMLD)

#### Analyte/Chlorate

N = Spiked analyte recovery in sample matrix is outside control limits.

#### Hits Summary

Sample ID	Compound Name	Results	Units	RDL	DF	Qual	MCL		
							Sec	/	Prim
27349701	Strontium	43.5	ug/L	0.3	1				
27349701	Chromium (VI)	0.03	ug/L	0.03	1				
27349701	Chlorate	70	ug/L	20	1				

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### ANALYTICAL RESULTS

Client: E Analytical Eastern Analytical Inc - NH  
 Profile: 1331 Lebanon Water Department  
 Workorder: 273497 Lab Sink UL1 SE1

#### FOR COMPLIANCE

Lab ID: 27349701 Date Received: 9/26/2014 09:15 Matrix: Drinking Water  
 Sample ID: Lab Sink AM Date Collected: 9/24/2014 13:16

Parameters	Results	Units	RDL	DF	Prepared	By	Analyzed	By	Qual	MCL	
										Sec	Prim
UCMR3 EPA 200.8			Preparation Method: UCMR3 200.8 Prep								
			Analytical Method: UCMR3 EPA 200.8								
Chromium	ND	ug/L	0.2	1	10/1/2014 17:00	CC	10/3/2014 17:27	LKR			
Cobalt	ND	ug/L	1.0	1	10/1/2014 17:00	CC	10/3/2014 17:27	LKR			
Molybdenum	ND	ug/L	1.0	1	10/1/2014 17:00	CC	10/3/2014 17:27	LKR			
Strontium	43.5	ug/L	0.3	1	10/1/2014 17:00	CC	10/3/2014 17:27	LKR			
Vanadium	ND	ug/L	0.2	1	10/1/2014 17:00	CC	10/8/2014 15:29	LKR			
UCMR3 EPA 218.7			Analytical Method: UCMR3 EPA 218.7								
Chromium (VI)	0.03	ug/L	0.03	1			10/6/2014 18:59	JLG			
UCMR3 EPA 300.1			Analytical Method: UCMR3 EPA 300.1								
Chlorate	70	ug/L	20	1			10/11/2014 00:19	JLG			
UCMR3 EPA 522			Preparation Method: UCMR3 522 Prep								
			Analytical Method: UCMR3 EPA 522								
1,4-Dioxane	ND	ug/L	0.07	1	10/8/2014 14:50	BC	10/9/2014 20:43	BC			
UCMR3 EPA 524.3			Analytical Method: UCMR3 EPA 524.3								
1,1-Dichloroethane	ND	ug/L	0.03	1			10/3/2014 14:02	LM			
1,2,3-Trichloropropane	ND	ug/L	0.03	1			10/3/2014 14:02	LM			
1,3-Butadiene	ND	ug/L	0.1	1			10/3/2014 14:02	LM			
Bromochloromethane	ND	ug/L	0.06	1			10/3/2014 14:02	LM			
Bromomethane	ND	ug/L	0.2	1			10/3/2014 14:02	LM			
Chlorodifluoromethane	ND	ug/L	0.08	1			10/3/2014 14:02	LM			
Chloromethane	ND	ug/L	0.2	1			10/3/2014 14:02	LM			
UCMR3 EPA 537			Preparation Method: UCMR3 537 Prep								
			Analytical Method: UCMR3 EPA 537								
PFBS	ND	ug/L	0.090	1	10/6/2014 14:30	MAM	10/22/2014 00:47	MAM			
PFHpA	ND	ug/L	0.010	1	10/6/2014 14:30	MAM	10/22/2014 00:47	MAM			
PFHxS	ND	ug/L	0.030	1	10/6/2014 14:30	MAM	10/22/2014 00:47	MAM			
PFNA	ND	ug/L	0.020	1	10/6/2014 14:30	MAM	10/22/2014 00:47	MAM			
PFOA	ND	ug/L	0.020	1	10/6/2014 14:30	MAM	10/22/2014 00:47	MAM			

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### ANALYTICAL RESULTS

Client: E Analytical Eastern Analytical Inc - NH  
Profile: 1331 Lebanon Water Department  
Workorder: 273497 Lab Sink UL1 SE1

#### FOR COMPLIANCE

Lab ID: 27349701 Date Received: 9/26/2014 09:15 Matrix: Drinking Water  
Sample ID: Lab Sink AM Date Collected: 9/24/2014 13:16

Parameters	Results	Units	RDL	DF Prepared	By	Analyzed	By	Qual	MCL	
									Sec	Prim
PFOS	ND	ug/L	0.040	1	10/6/2014 14:30	MAM	10/22/2014 00:47	MAM		

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**CHAIN OF CUSTODY # 273497**



**PRIOR TO SHIPPING - COMPLETE ALL FIELDS**

Location: Lab Sink AM SiteID: 001

Site Sample Type (RAW,EFF,DIST,etc.) EP Lab Sink

Sampler's First Initial and Last Name J. Angers & J. Lynch

Date Sampled 9/24/2014 Time Sampled 13:16 Military (24 hr) Format

TAT requested (rush by adv notice only)  
 STD [ 1wk \_\_\_ 3 day \_\_\_ 2 day \_\_\_ 1 day \_\_\_ ]

Relinquished by 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_

Date/Time Relinq 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_

State Reporting by Lab? Y

CCR Report? Y

Received By: [Signature] Date: SEP 28 2014

COMMENTS:  
 522D marked CapX cap gasket fell into sink when cap was removed.

R1 SEI

Container ID #	Analysis Description	Pre-Preservation	LIMS Sample Type
27349701-B	UCMR3 Chlorate 300 1 DW	EDA COOL	COMP
27349701-D	UCMR3 Dioxane EPA 522 DW	SST+SBS	COMP
27349701-G	UCMR3 Dioxane EPA 522 DW	SST+SBS	COMP
27349701-C	UCMR3 Hex Chromium 218 7 DW	AS+AH C	COMP
27349701-A	UCMR3 Metals EPA 200 8 DW	1 HNO3	COMP
27349702-C	UCMR3 Metals EPA 200 8 DW	1 HNO3	FB
27349701-F	UCMR3 PFOAs EPA 537 DW	TRIZMA<6	COMP
27349701-K	UCMR3 PFOAs EPA 537 DW	TRIZMA<6	COMP
27349701-L	UCMR3 PFOAs EPA 537 DW	TRIZMA<6	COMP
27349701-M	UCMR3 PFOAs EPA 537 DW	TRIZMA<6	COMP
27349702-A	UCMR3 PFOAs EPA 537 DW	TRIZMA<6	FB
27349702-D	UCMR3 PFOAs EPA 537 DW	TRIZMA<6	FB
27349701-E	UCMR3 Volatiles 524 3 DW	AC+MA C	COMP
27349701-H	UCMR3 Volatiles 524 3 DW	AC+MA C	COMP
27349701-I	UCMR3 Volatiles 524 3 DW	AC+MA C	COMP
27349701-J	UCMR3 Volatiles 524 3 DW	AC+MA C	COMP
27349702-B	UCMR3 Volatiles 524 3 DW	AC+MA C	FB
27349702-E	UCMR3 Volatiles 524 3 DW	AC+MA C	FB

