Analytical Report

Warren Chestang South Holland School District 151 525 E 162nd St South Holland, IL 60473 September 18, 2017

Drinking Water Analysis

Madison School

Dear Warren Chestang:

Enclosed are the analytical reports for the EMT Work Order listed. Also included with this analytical report is a copy of the chain of custody associated with these samples. If you have any questions, please contact me.

Sincerely,

RE:

Tim Witrzek Project Manager 847.967.6666

Approved for release: 9/18/2017 10:15:19AM

I GE

Approved by,

Work Order: 17I0354

Matthew Gregory Technical Manager

The contents of this report apply to the sample(s) analyzed. No duplication is allowed except in its entirety. Reporting limits are adjusted for sample size used, dilutions and moisture content, if applicable.

State of Illinois, NELAP Accredited Lab No. 100256, Cert No. 003674



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Date: 09/18/2017

8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Case Narrative

Client: South Holland School District 151

Project: Drinking Water Analysis

Madison School

Work Order: 1710354

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Sample Summary

Sample ID	Laboratory ID	Matrix	Date Sampled	Last Time Used:	Date Received
M1-1	1710354-01	Drinking Water	09/07/17 07:22	09/06/17 21:30	09/11/17 16:20
M1-2	1710354-02	Drinking Water	09/07/17 07:23	09/06/17 21:30	09/11/17 16:20
M2-1	1710354-03	Drinking Water	09/07/17 07:25	09/06/17 21:30	09/11/17 16:20
M2-2	1710354-04	Drinking Water	09/07/17 07:26	09/06/17 21:30	09/11/17 16:20
M3-1	1710354-05	Drinking Water	09/07/17 07:30	09/06/17 21:30	09/11/17 16:20
M3-2	1710354-06	Drinking Water	09/07/17 07:31	09/06/17 21:30	09/11/17 16:20
M4-1	1710354-07	Drinking Water	09/07/17 07:31	09/06/17 21:30	09/11/17 16:20
M4-2	1710354-08	Drinking Water	09/07/17 07:32	09/06/17 21:30	09/11/17 16:20
M5-1	1710354-09	Drinking Water	09/07/17 07:33	09/06/17 21:30	09/11/17 16:20
M5-2	1710354-10	Drinking Water	09/07/17 07:34	09/06/17 21:30	09/11/17 16:20
M6-1	1710354-11	Drinking Water	09/07/17 07:34	09/06/17 21:30	09/11/17 16:20
M6-2	1710354-12	Drinking Water	09/07/17 07:35	09/06/17 21:30	09/11/17 16:20
M7-1	1710354-13	Drinking Water	09/07/17 07:37	09/06/17 21:30	09/11/17 16:20
M7-2	1710354-14	Drinking Water	09/07/17 07:38	09/06/17 21:30	09/11/17 16:20
M8-1	1710354-15	Drinking Water	09/07/17 07:39	09/06/17 21:30	09/11/17 16:20
M8-2	1710354-16	Drinking Water	09/07/17 07:40	09/06/17 21:30	09/11/17 16:20
M9-1	1710354-17	Drinking Water	09/07/17 07:41	09/06/17 21:30	09/11/17 16:20
M9-2	1710354-18	Drinking Water	09/07/17 07:42	09/06/17 21:30	09/11/17 16:20
M10-1	1710354-19	Drinking Water	09/07/17 07:43	09/06/17 21:30	09/11/17 16:20
M10-2	1710354-20	Drinking Water	09/07/17 07:43	09/06/17 21:30	09/11/17 16:20
M11-1	1710354-21	Drinking Water	09/07/17 07:44	09/06/17 21:30	09/11/17 16:20
M11-2	1710354-22	Drinking Water	09/07/17 07:45	09/06/17 21:30	09/11/17 16:20
M12-1	1710354-23	Drinking Water	09/07/17 07:45	09/06/17 21:30	09/11/17 16:20
M12-2	1710354-24	Drinking Water	09/07/17 07:46	09/06/17 21:30	09/11/17 16:20
M13-1	1710354-25	Drinking Water	09/07/17 07:48	09/06/17 21:30	09/11/17 16:20
M13-2	1710354-26	Drinking Water	09/07/17 07:49	09/06/17 21:30	09/11/17 16:20
M14-1	1710354-27	Drinking Water	09/07/17 07:50	09/06/17 21:30	09/11/17 16:20
M14-2	1710354-28	Drinking Water	09/07/17 07:51	09/06/17 21:30	09/11/17 16:20
M15-1	1710354-29	Drinking Water	09/07/17 07:53	09/06/17 21:30	09/11/17 16:20
M15-2	1710354-30	Drinking Water	09/07/17 07:54	09/06/17 21:30	09/11/17 16:20

Narrative

Sample results only relate to the to the sample received at the laboratory and analytes of interest tested.



Work Order: 17I0354

The samples were received on 09/11/17 16:20. The samples arrived in good condition and properly preserved. The temperature of the

cooler at receipt was

 $\begin{array}{cc} \underline{\text{Cooler}} & \underline{\text{Temp } C^\circ} \\ \text{Default Cooler} & 5.0 \end{array}$

Refer to Qualifiers and Definitions for quality and analytical clarifications or deviations.

Report Date: 09/18/2017



8100 N. Austin Avenue Morton Grove, IL 60053-3203 **P** 847.967.6666 800.246.0663 **F** 847.967.6735 www.emt.com

Client Sample Results

Client: South Holland School District 151

Project: Drinking Water Analysis

Madison School

		EMT Reporting	Date/Time
Analyses	Result	Limit Qual Units	Analyzed Batch Analyst
Client Sample ID: Collection Date: Collection Volume:	M1-1 9/7/2017 7:22:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-01
Metals by ICP-MS Method:			
Lead	< 2.00	2.00 U ppb	09/14/17 15:37 B7I0450 AG
Client Sample ID: Collection Date: Collection Volume:	M1-2 9/7/2017 7:23:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-02
Metals by ICP-MS			
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 15:39 B7I0450 AG
Client Sample ID: Collection Date: Collection Volume:	M2-1 9/7/2017 7:25:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-03
Metals by ICP-MS	3		
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 15:40 B7I0450 AG
Client Sample ID: Collection Date: Collection Volume:	M2-2 9/7/2017 7:26:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-04
Metals by ICP-MS	;		
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 15:41 B7I0450 AG
Client Sample ID: Collection Date: Collection Volume:	M3-1 9/7/2017 7:30:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-05
Metals by ICP-MS	;		
Method:		200	00/44/47 45-40
Lead 	< 2.00	2.00 U ppb	09/14/17 15:42 B7I0450 AG
Client Sample ID: Collection Date: Collection Volume:	M3-2 9/7/2017 7:31:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-06
Metals by ICP-MS			
	E200.8		

Report Date: 09/18/2017



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Client Sample Results

(Continued)

Client: South Holland School District 151

Project: Drinking Water Analysis

Madison School

		EMT Reporting	Date/Time
Analyses	Result	Limit Qual Units	Analyzed Batch Analyst
Client Sample ID: Collection Date: Collection Volume:	M4-1 9/7/2017 7:31:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-07
Metals by ICP-MS Method:			
Lead	< 2.00	2.00 U ppb	09/14/17 15:55 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M4-2 9/7/2017 7:32:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-08
Metals by ICP-MS			
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 15:57 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M5-1 9/7/2017 7:33:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-09
Metals by ICP-MS	;		
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 15:58 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M5-2 9/7/2017 7:34:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-10
Metals by ICP-MS	;		
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 15:59 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M6-1 9/7/2017 7:34:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-11
Metals by ICP-MS	;		
Method:		200	00/44/47 40:04
Lead ————————————————————————————————————	< 2.00	2.00 U ppb	09/14/17 16:01 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M6-2 9/7/2017 7:35:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-12
Metals by ICP-MS			
Method:			

Report Date: 09/18/2017



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Client Sample Results

(Continued)

Client: South Holland School District 151

Project: Drinking Water Analysis

Madison School

		EMT Reporting	Date/Time
Analyses	Result	Limit Qual Units	Analyzed Batch Analyst
Client Sample ID: Collection Date: Collection Volume:	M7-1 9/7/2017 7:37:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-13
Metals by ICP-MS Method:			
Lead	< 2.00	2.00 U ppb	09/14/17 16:03 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M7-2 9/7/2017 7:38:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-14
Metals by ICP-MS			
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 16:04 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M8-1 9/7/2017 7:39:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-15
Metals by ICP-MS	;		
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 16:08 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M8-2 9/7/2017 7:40:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-16
Metals by ICP-MS	;		
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 16:09 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M9-1 9/7/2017 7:41:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-17
Metals by ICP-MS	;		
Method:		200	00/44/47 40:44
Lead ————————————————————————————————————	< 2.00	2.00 U ppb	09/14/17 16:11 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M9-2 9/7/2017 7:42:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-18
Metals by ICP-MS	E200.8		



Client Sample Results

(Continued)

Client: South Holland School District 151

Project: Drinking Water Analysis

Madison School

Avelue		Reporting	Date/Time
Analyses	Result	Limit Qual Units	Analyzed Batch Analyst
Client Sample ID: Collection Date: Collection Volume:	M10-1 9/7/2017 7:43:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-19
Metals by ICP-MS Method:			
Lead	< 2.00	2.00 U ppb	09/14/17 16:13 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M10-2 9/7/2017 7:43:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-20
Metals by ICP-MS			
Method: Lead	E200.8 < 2.00	2.00 U ppb	09/14/17 16:15 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M11-1 9/7/2017 7:44:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-21
Metals by ICP-MS	•		
Method:	E200.8		
Lead	< 2.00	2.00 U ppb	09/14/17 16:16 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M11-2 9/7/2017 7:45:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-22
Metals by ICP-MS	•		
Method:	E200.8		
Lead	< 2.00	2.00 U ppb	09/14/17 16:17 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M12-1 9/7/2017 7:45:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-23
Metals by ICP-MS			
Method:			
Lead	< 2.00	2.00 U ppb	09/14/17 16:18 B7I0451 AG
Client Sample ID: Collection Date: Collection Volume:	M12-2 9/7/2017 7:46:00AM 250 ml bottle	Last Time Used: 9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-24
Metals by ICP-MS			
Method:			
Lead	< 2.00	2.00 U ppb	09/14/17 16:20 B7I0451 AG



Client Sample Results

(Continued)

Client: South Holland School District 151

Project: Drinking Water Analysis

Madison School

Work Order: 1710354

Report Date: 09/18/2017

	ı	EMT Penarting		Date/Time	
Analyses	Result	Reporting Limit Qual Unit	s	Analyzed Batch	Analyst
Client Sample ID: Collection Date: Collection Volume:	M13-1 9/7/2017 7:48:00AM 250 ml bottle	Last Time Used:	9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-25	
Metals by ICP-MS	;				
Method:					
Lead	< 2.00	2.00 U ppb		09/14/17 16:23 B7I0451	AG
Client Sample ID: Collection Date: Collection Volume:	M13-2 9/7/2017 7:49:00AM 250 ml bottle	Last Time Used:	9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 17I0354-26	
Metals by ICP-MS	•				
Method:					
Lead	< 2.00	2.00 U ppb		09/14/17 16:25 B7I0451	AG
Client Sample ID:	M14-1			Matrix: Drinking Water	
Collection Date:	9/7/2017 7:50:00AM	Last Time Used:	9/6/2017 9:30:00PM	Lab ID: 1710354-27	
Collection Volume:	250 ml bottle				
Metals by ICP-MS					
Method:		0.00		20/44/47 40 00 P7/04F0	4.0
Lead	< 2.00	2.00 U ppb		09/14/17 16:33 B7I0452	AG
Client Sample ID:	M14-2			Matrix: Drinking Water	
Collection Date:	9/7/2017 7:51:00AM	Last Time Used:	9/6/2017 9:30:00PM	Lab ID : 1710354-28	
Collection Volume:	250 ml bottle				
Metals by ICP-MS Method:					
Lead	< 2.00	2.00 U ppb		09/14/17 16:35 B7I0452	AG
Client Sample ID:	M15-1	Leaf Time Head	0/6/2017 0:20:00DM	Matrix: Drinking Water	
Collection Date: Collection Volume:	9/7/2017 7:53:00AM 250 ml bottle	Last Time Used:	9/6/2017 9:30:00PM	Lab ID : 1710354-29	
Metals by ICP-MS					
Method:					
Lead	< 2.00	2.00 U ppb		09/14/17 16:39 B7I0452	AG
Oliant Cancelle ID	M45.0			Matrice Date 12 144	
Client Sample ID: Collection Date:	M15-2 9/7/2017 7:54:00AM	l ast Time Heed	9/6/2017 9:30:00PM	Matrix: Drinking Water Lab ID: 1710354-30	
Collection Volume:	250 ml bottle	Lust time Oseu.	5.5.25 11 5.50.001 W	Lab 15. 1710304-00	
Metals by ICP-MS	;				
Method:					
Lead	< 2.00	2.00 U ppb		09/14/17 16:40 B7I0452	AG



Item Description

U Analyte included in the analysis, but not detected

%Rec Percent Recovery

Certified Analyses included in this Report

Analyte	CAS#	Certifications
E200.8 in Drinking Water		
Lead	7439-92-1	ILEPA

List of Certifications

Code	Description	Number	Expires
AKDEC	State of Alaska, Dept. Environmental Conservation	UST-105	07/16/2017
CPSC	US Consumer Product Safety Commission, Accredited by PJLA Lab No. 1050	L14-56	04/30/2018
DoD	Department of Defense, Accredited by PJLA	L14-55	04/30/2018
ILEPA	State of Illinois, NELAP Accredited Lab No. 100256	003674	08/08/2018
ISO	ISO/IEC 17025, Accredited by PJLA	L14-56	04/30/2018
LELAP	State of Louisiana, NELAP Accredited Lab No. 171344	05015	06/30/2017
NJDEP	State of New Jersey, NELAP Accredited Lab No. IL010	NLC160001	06/30/2017
WDNR	State of Wisconsin Dept of Natural Resources	999888890	08/31/2017



oring and Technologies

CHAIN OF CUSTODY

Phone: 47-324-3320 Fax: 847-967-6735

Page 1 of 3

COC Number Lab Work Order Number

Rush requests subject to lab Rush requests subject to additional charge. Expedited (days) Standard (days) Due Date SHSDIG Madison If applicable Tracking Number If applicable Shipped By If applicable If applicable South Holland School Chestans Chestani 0146-222-802 Larven Warren South

							Preservation Code	
	Sampled	Sampled	Sample Type	Matrix	Container			
Sample Name or Field ID	Date	Time	Code	Code	Count	e e		Sample Comments
	76		Grab	MQ	1 1		,	ź
101-1 Fine 1 Draw	9-7	7.22.40	-	-	_			
2 6 200	9.7	7:23 AM						,
1	9.7	235.00						SA SS
1-1 6	9.7	7:264						
12-1 8th	9.7	7.30AN						\$ 400 400
14-7 000	9.7	I NIAM						of the o
17 17	6.7	アスス						OBX 63
4-3 22.3	9.7	7:32 AM	•					00 to
7.1	9.7	J. 22.42						/o/ o
5.7 2.7	9.7	1. 24 AS		_	`		Action 1	(1.1. 10
(-) (-+	9-7	7: 54 AM	>	>	> >			1
								63.
No.	Date/Time	13:30 Re	Received By	1	MA	Date/Time Sample Kit Prepared By a # 13:30 Tim Witrzek	Sample Kit Prepared By Tim Witrzek	Date/Time
		-			1			

产品的现在形式

1.1

9:30 PM

6-6-17

Time of last water use at the facility -

09/11/19 13:30 O4/11/7 (620

soler Numbers and Temperatures

DW= Drinking Water

Preserv. Codes:

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	# 1
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	7

Page 2 of 3

CHAIN OF CUSTODY

Environmental Monitoring and Technologies

8100 Austin Ave

Morton Grove

Phone: 47-324-3320

Rush requests subject to lab Rush requests subject to additional charge. Standard (days) Expedited (days) Sample Comment वंद्रकेता विकास Date/Time 8:30 COC Number Lab Work Order Number Fime of last water use at the facility -Sample Kit Prepared By Date/Time Sample Kit Prepar 2 9/11/17 (3:3c Tim Witrzek 3= Nitric Acid < 2, Store at 4 C Fax: 847-967-6735 Date/Time Preserv. Codes: 71111p 200.8 - Lead ΜQ Code Project Description

Machine
PO Number
If applicable If applicable Tracking Number If applicable Sample Type Code If applicable Grab Received By 11, 60053-3203 DIUZAM 7:4044 Date/Time 1 13.3 1:381 Date/Time OF/11/A 1820 Time DW= Drinking Water Destr. 54 151 9-7 9-7 9-7 Date S, School - hestang 01/16 Orchia Sample Name or Field ID 200 15+ 27 2.t 20 NA 708-73 ooler Numbers and Temperatures y/arren darren 15700 South 116, 4 5 Matrix Codes

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COC Number Lab Work Order Number

Phone: 47-324-3320 Fax: 847-967-6735

8100 Austin Ave Morton Grove IL, 60053-3203

CHAIN OF CUSTODY

Environmental Monitoring and Technologies

Rush requests subject to lab Rush requests subject to additional charge. Standard (days) Expedited (days) नित्रकेतिन विस्तितिय Date/Time Time of last water use at the facility -Sample Kit Prepared By Date/Time Sample nu rieper 3= Nitric Acid < 2, Store at 4 C Preserv. Codes: 200.8 - Lead Count Code ΔW Medison If applicable Tracking Number If applicable Sample Type Code Grab If applicable If applicable Received By Shipped By Odte/Time 09:32 Date/Time 1620 District 15, DW= Drinking Water 900 Date Ŋ hestang 01/2-237-9410 Sample Name or Field ID Narnen oler Numbers and Temperatures 15700 South M12-5 Matrix Codes