

March 8, 2017

Mr. John Sherman
Holley Central School District
3800 North Main Street
Holley, New York 14470

Re: Environmental Water Sampling – Holley Junior Senior High School

Dear Mr. Sherman,

Envoy Environmental was contracted on January 12, 2017 to perform additional Environmental Water Sampling at Holley Junior Senior High School located at 16848 Lynch Road in Holley, New York. We understand the Holley Central School District is evaluating the data based on the NYS Department of Health (“NYSDOH”) Emergency Regulation, Lead Testing in School Drinking Water (Subpart 67-4) as well as the EPA’s 3T’s for Reducing Lead in Drinking Water in Schools Guidance Document. All sampling conducted was done in accordance with the NYSDOH regulations as it pertains to testing schools for lead in the drinking water.

Samples taken were based on both the direction of the client, and areas designated as high priority as outlined by the NYSDOH regulations. All water samples collected were 250 mL and taken as a “first draw” from each testing location. First draw samples are defined as a sample of tap water, collected in accordance with the NYSDOH regulations, that has been standing in plumbing pipes at least 8 hours and not more than 18 hours and is collected without prior flushing of the tap. The “flush” samples were collected in 250 ml bottles and after the water from the outlet flowed for 30 seconds for taps and 15 minutes for water coolers. The NYSDOH regulations identifies the Action Level at 15 ppb.

Water sampling analysis was contracted through Con-Test Analytical Laboratory located in East Longmeadow, Massachusetts. The sampling and analytical testing was conducted in compliance with the USEPA Requirements for Lead Sampling and Testing Protocols. The following USEPA Methodologies were used to prepare and analyze the Holley CSD drinking water samples for Lead:

Drinking Water Sample Preparation	USEPA Method 200.2
Lead by AA-Graphite Furnace	SM 3113B

Each sample was preserved, at Con-Test Analytical Laboratory, with nitric acid to reduce the pH to less than 2 as per USEPA Method 200.2.

Chain of Custody (“COC”) forms are used to document the history of sample possession from the time the sample containers leave their point of origin to the time the samples are received by the laboratory.

In Table 1 of this report we have listed the water samples results.

TABLE 1

Holley Junior Senior High School					
Sample ID	Water Source	Level Detected (PPB) 9/20/16 & 9/21/17	Level Detected (PPB) 1/12/17		Remedial Suggestions
HS-1-KS-02	Kitchen Sink	40	First Draw	23	This faucet has been replaced with a lead-free fixture and continues to have lead levels above 15 ppb. The 30-second flush sample show lead levels well below the NYSDOH Action Level. Therefore, the following is recommended: 1. Replace the connections and piping under the sink up to the wall to identify if there is any contribution to the lead levels from this plumbing, and/or 2. Continue to flush daily until the testing shows levels at or below 15 ppb.
			Flush	0.62	
HS-1-KS-09	Kitchen Sink	16	First Draw	9.2	Outlet is below the NYSDOH Action Level
			Flush	0.68	

All of the “flush” samples were found to be below the NYSDOH Action Level. The Kitchen Sink with lead levels above the NYSDOH Action Level in the “first draw” sample can be flushed daily for at least 30 seconds prior to use and placed into daily service until new piping has been replaced and/or re-testing confirms compliance with the NYSDOH Action Level.

The remedial options are based on the 3Ts guidance document as referenced in the NYSDOH Emergency Regulation:

“The Environmental Protection Agency’s 3Ts for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance will be used as a technical reference for implementation of the regulation.”

¹<https://www.epa.gov/dwreginfo/testing-schools-and-child-care-centers-lead-drinking-water>

ENVOY

environmental consultants inc.

Please refer to the attached laboratory reports for specific analytical data and sample locations throughout the school. If you have any questions, please contact me at (585) 454-1060. We appreciate the opportunity to provide you with our professional services.

Sincerely,

A handwritten signature in black ink, appearing to read 'TK', with a horizontal line extending to the right.

Ted Knapp
Project Manager
Envoy Environmental Consultants, Inc.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Environmental Hazards Services, LLC
 7469 White Pine Road
 Richmond, VA 23237
 ATTN: Greg Brown

REPORT DATE: 2/24/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: E17-0060

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17A1333

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Holley HS/Holley CSD

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
HS-1-KS-02A	17A1333-01	Drinking Water	Kitchen Sink	EPA 200.8	
HS-1-KS-02B	17A1333-02	Drinking Water	KS	EPA 200.8	
HS-1-KS-09A	17A1333-03	Drinking Water	KS	EPA 200.8	
HS-1-KS-09B	17A1333-04	Drinking Water	KS	EPA 200.8	

CASE NARRATIVE SUMMARY

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

EPA 200.8

Qualifications:

MS-11

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Sample(s) Qualified:

Lead

17A1333-01[HS-1-KS-02A]. B170604-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Project Manager

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Project Location: Holley H S/Holley CSD

Sample Description: Kitchen Sink

Work Order: 17A1333

Date Received: 1/27/2017

Field Sample #: HS-1-KS-02A

Sampled: 1/12/2017 06:01

Sample ID: 17A1333-01

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
		RL	MA ORSG							
Lead	23	5.0	15	µg/L	10	MS-11	EPA 200.8	2/16/17	2/23/17 15:39	MJH

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Project Location: Holley H.S./Holley CSD

Sample Description: KS

Work Order: 17A1333

Date Received: 1/27/2017

Field Sample #: HS-1-KS-02B

Sampled: 1/12/2017 06:02

Sample ID: 17A1333-02

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
		RI	MA ORSG							
Lead	0.62	0.50	15	µg/L	1		EPA 200.8	2/16/17	2/21/17 16:03	MJH

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Project Location: Holley H.S./Holley CSD

Sample Description: KS

Work Order: 17A1333

Date Received: 1/27/2017

Field Sample #: HS-1-KS-09A

Sampled: 1/12/2017 06:05

Sample ID: 17A1333-03

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
		RI	MA ORSC							
Lead	9.2	5.0	15	µg/L	10		EPA 200.8	2/16/17	2/23/17 15:42	MJH

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Project Location: Holley H.S./Holley CSD

Sample Description: KS

Work Order: 17A1333

Date Received: 1/27/2017

Field Sample #: HS-1-KS-09B

Sampled: 1/12/2017 06:06

Sample ID: 17A1333-04

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
		RI	MA ORSG							
Lead	0.68	0.50	15	µg/L	1		EPA 200.8	2/16/17	2/21/17 16:06	MJH

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Sample Extraction Data

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17A1333-01 [HS-1-KS-02A]	B170604	10.0	10.0	02/16/17
17A1333-02 [HS-1-KS-02B]	B170604	10.0	10.0	02/16/17
17A1333-03 [HS-1-KS-09A]	B170604	10.0	10.0	02/16/17
17A1333-04 [HS-1-KS-09B]	B170604	10.0	10.0	02/16/17

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B170604 - EPA 200.8										
Blank (B170604-BLK1)				Prepared: 02/16/17 Analyzed: 02/21/17						
Lead	ND	0.50	µg/L							
LCS (B170604-BS1)				Prepared: 02/16/17 Analyzed: 02/21/17						
Lead	38.9	0.50	µg/L	40.0		97.2	85-115			
Duplicate (B170604-DUP1)				Source: 17A1333-01 Prepared: 02/16/17 Analyzed: 02/23/17						
Lead	22.6	5.0	µg/L		22.7			0.454	20	
Duplicate (B170604-DUP2)				Source: 17A1333-02 Prepared: 02/16/17 Analyzed: 02/21/17						
Lead	0.620	0.50	µg/L		0.622			1.14	20	
Matrix Spike (B170604-MS1)				Source: 17A1333-01 Prepared: 02/16/17 Analyzed: 02/24/17						
Lead	136	6.2	µg/L	25.0	22.7	451 *	70-130			MS-11
Matrix Spike (B170604-MS2)				Source: 17A1333-02 Prepared: 02/16/17 Analyzed: 02/21/17						
Lead	26.0	0.62	µg/L	25.0	0.622	102	70-130			

FLAG/QUALIFIER SUMMARY

▪	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 200.8 in Drinking Water</i>	

Lead NH, NY, MA, CT, RI, ME, VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2017
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2017
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017

EHSO Project

E17-0060
WaterSampling
LEAD ONLY
Chain-of-Custody

17A1333

Environmental Research Services, LLC
www.ersllc.com
609-342-4919
2000 Washington Blvd
Rochester, NY 14623
(800) 276-4887 (toll)

Analyte by National Testing Laboratories



17-02-02083
Due Date:
02/10/2017
(Friday)
AE MC

Company Name: Energy Environmental Address: 577 Ambrose St City/State: Rochester, NY, 14608
Phone: (800) 454-1060 Fax: (800) 454-1062 Email: TKings@energyenvironmental.com Account Number: _____
Product/Service/Testing Method: Holley H.S. Holley-CSD Client/Originator: Holley, NY Job Number: 14470 Age of Project: _____
Collection by: Heidi Berg, Siegfried Confirmation: _____
Purchase Order Number: _____
Date: 1-2-2017

No.	Client Sample ID	Collection Location (i.e. Kitchen Sink)	Collection Date	Collection Time	Analyte Requested	Field Parameters		
						PH at 25°C	PH at Collection	Temperature at Collection
01	HS-1-KS-02A	Kitchen Sink	1-12-17	0601	Lead			
02	HS-1-KS-02B	KS		0602	Lead			
03	HS-1-KS-09A	KS		0605	Lead			
04	HS-1-KS-09B	KS		0606	Lead			
5					Lead			
6					Lead			
7					Lead			
8					Lead			
9					Lead			
10					Lead			

Requested by: Mike Zager
Sampling Location: 12 SFC 009 90 4348 4984

Date: 1/21/17
Time: 17:00

Date: 1/22
NTL Lab ID Number

Client: Holley Central School District
Location: Holley Junior & Senior High School
Work Performed: Water Sampling
Date: January 12, 2017
Job Number: E17-0060

