The Lotis Engineering Group, P.C.

6465 Transit Road - Suite 23 East Amherst, New York 14051-2232 716.276.8707

January 23, 2016

Jamie Phillips Lancaster Central School District 177 Central Avenue Lancaster, New York 14086

Re: Lead Testing in School Drinking Water - Sampling Event 2 and 3

Hillview Elementary School 11 Pleasant View Drive Lancaster, NY 14086

Dear Ms. Phillips:

On September 6, 2016, Governor Andrew M. Cuomo signed legislation (S.8158/A.10740) mandating that public schools in New York State test potable water for lead contamination. The New York State Department of Health (NYSDOH) also issued emergency regulations pursuant to the new legislation (NYCRR Title X, Subpart 67-4).

In accordance with the new law and regulations, Lancaster Central School District (District) contracted The Lotis Engineering Group, P.C. (Lotis), to complete water testing in all District buildings. This submission summarizes the analytical results of a resampling events completed on November 4, 2016 and December 15, 2016 at Hillview Elementary School.

Per the emergency regulations issued by the NYSDOH, first-draw samples were collected from cold water outlets after water lay motionless in the pipes for a minimum of 8 hours, but not more than 18 hours. The school district was responsible for flushing outlets at least 8 hours prior to sample collection. Lotis was notified by the school district that flushing was completed over 8 hours prior to sampling. However, this could not be independently verified by Lotis.

Samples were collected by placing a sterile container under each outlet and turning on the water source, allowing Lotis to collect a first-draw cold water sample. Samples were collected in clean 250 mL containers containing the appropriate nitric acid preservative, as provided by the testing laboratory. Samples were then delivered to Microbac Laboratories (a certified Environmental Laboratory Approved Program) following standard chain of custody protocols.

Three (3) outlets, identified by the District, were sampled inside the building on November 4, 2016. An additional 5 outlets, identified by the District, were sampled inside the building on December 15, 2016. A total of 8 outlets were sampled during these three sampling events.



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At Hillview Elementary School, 4 samples exceeded the 15 parts per billion (ppb) action level set forth by the NYSDOH. A summary of these samples is included in the following table:

Table 1 - Samples Exceeding 15 ppb

Date Sampled	Sample ID	Location Details	Results (ppb)	
11/4/2016	1-HVE-Kitchen-Sprayer	Kitchen Sprayer	22.6	
11/4/2016	3-HVE-Princpal-S1	Sink in the Principals Office	19.7	
12/15/2016		Boys Bathroom by Rooms 18 and 19	488	
	3-HES-Boys LR-S1	Boys Locker Room Sink	29.5	

Included in this submission are the complete laboratory analytical reports, chain of custody logs and photos of sample locations that exceeded the action levels.

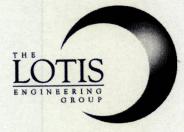
In accordance with the new legislation, use of the aforementioned outlets is prohibited until a lead remediation plan is implemented and new testing demonstrates that the resulting lead levels are below 15 ppb. Alternative water supplies may be necessary in impacted areas. The legislation requires that Lancaster Central School District provide these results to the NYSDOH within one business day of receipt. Further, notification to building staff, all persons in parental relation to students, the local health department and the State Education Department is required within 10 business days of receipt of these results. These results and any associated remedial plans must be posted on the District's website within six weeks of receipt and all records must be retained by the District for at least 10 years.

The NYSDOH recommends reviewing "3Ts for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance" published by the United States Environmental Protection Agency (USEPA) to assist schools in assessing an appropriate remediation plan. A copy of this publication can be reviewed through the following hyperlink 3Ts for Reducing Lead in Drinking Water in Schools.

Lotis is available at your convenience to discuss this issue further.

Sincerely,

Kelly Reidy Environmental Scientist David N. Robinson, P.E. President/CEO



Laboratory Analytical Results



Work Order No.: 16K0767

December 1, 2016

The Lotis Engineering Group, P.C. 6465 Transit Road - Suite 23 East Amherst, NY 14051-2232

Re: HVE

Dear Kelly Reidy:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 11/9/2016 9:35:00AM for the analyses presented in the following report as Work Order 16K0767.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

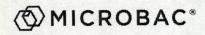
We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Robert Crookston, Managing Director, at robert.crookston@microbac.com.

Sincerely,

Microbac Laboratories, Inc.

Karen Ziolkowski

Senior Project Manager



Date:

Thursday, December 1, 2016

WORK ORDER SAMPLE SUMMARY

The Lotis Engineering Group, P.C.

Project: HVE Lab Order: 16K0767

Client:

Collection Date Date Received Tag Number Client Sample ID Lab Sample ID 11/04/2016 06:54 11/9/2016 9:35:00AM 1-HVE-Kitchen-Sprayer 16K0767-01 11/9/2016 9:35:00AM 11/04/2016 06:55 16K0767-02 2-HVE-Kitchen-Dishwash 11/04/2016 07:05 11/9/2016 9:35:00AM 3-HVE-Princpal-S1 16K0767-03



Analytical R	esults				Da	ite:	Thursday, December 1, 2016
Client:	The Lotis Engineering Group, P.C. HVE					Work C Receiv	
Analyses	Certs	Result	Units	Qual	Analyzed	Tech	Method
01 1-HVE-Kitcher	n-Sprayer					Colle	ected: 11/04/2016 06:54
Lead	gdmnoi	22.6	ug/L		11/30/2016 13:52	SA	EPA 200.8 Rev 5.4
02 2-HVE-Kitcher	n-Dishwash					Colle	ected: 11/04/2016 06:55
Lead	dgimno	1.77	ug/L		11/29/2016 18:17	SJE	EPA 200.8 Rev 5.4
03 3-HVE-Princpa	al-S1					Colle	ected: 11/04/2016 07:05
Lead	gdmnoi	19.7	ug/L		11/30/2016 13:53	SA	EPA 200.8 Rev 5.4

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

B = Detected in the associated method Blank at a concentration above the routine RL

b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL

b* = Detected in the associated method Blank at a concentration greater than half the RL

CFU = Colony forming units

D = Dilution performed on sample

DF = Dilution Factor

g = Gram

E = Value above quantitation range

H = Analyte was prepared and/or analyzed outside of the analytical method holding time

I = Matrix Interference

J = Analyte concentration detected between RL and MDL (Metals / Organics)

LOD = Limit of Detection

LOQ = Limit of Quantitation

m3 = Meters cubed

MDL = Method Detection Limit

mg/Kg = Milligrams per Kilogram (ppm)

mg/L = Milligrams per Liter (ppm)

NA = Not Analyzed

ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)

NR = Not Recovered

R = RPD outside accepted recovery limits

RL = Reporting Limit

S = Spike recovery outside recovery limits

Surr = Surrogate

U = Undetected

> = Greater than

< = Less than

% = Percent

* = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A,B = Target Analyte

I = Internal Standard
M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

BLK = Method Blank
DUP = Method Duplicate
BS = Method Blank Spike
MS = Matrix Spike
ICB = Initial Calibration Blank

CCB = Continuing Calibration Blank
CRL = Client Required Reporting Limit

PDS = Post Digestion Spike QCS = Quality Control Standard ICSA = Interference Check Standard "A"
ICSAB = Interference Check Standard "AB"
BSD = Method Blank Spike Duplicate
MSD = Matrix Spike Duplicate
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification

OPR = Ongoing Precision and Recovery Standard

SD = Serial Dilution

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- g Indiana SDH chemical analysis of drinking water (#C-45-03)
- Kansas Dept Health & Env. NELAP (#E-10397)
- m New York State Department of Health Wadsworth (#12006)
- ⁿ Pennsylvania Department of Environmental Protect (#68-04863)
- Virginia Department of General Services Division of Consolidated Laboratory Services (#7990)

Microbac Laboratories, Inc.



COOLER INSPEC			Data/7	Time Rece	Date:		y, December 1	, 2016	
Client Name: The Lot	is Engineering Group, P.C.				ivea.	11/09/20	110 09.33		
Work Order Number:	16K0767		Receiv	ved by:	Nicole F	Rainwate			
Checklist completed by	Checklist completed by: 11/10/2016 2:58:00PM Nicole Rainwater			Reviewed by: 1		11/15/2016 KAZ			
		Carrier Name: UPS							
Cooler ID: Default Cooler			Container/Temp Blank Temperature: 21.0° C						
Custody seals intact of Custody seals intact of Custody seals intact of COC present? COC included sufficient COC included sufficient COC included a sample COC agrees with sample compared to the appropriate of COC included time of COC includ	nple labels? ppropriate matrix? f collection? f collection? ppropriate number of containers? intainer/bottle? tact? ume for indicated test?	entified?	Yes	द्यद्यद्य द्यद्यद्यद्यद्य । द	No N		Not Present Not Present Not Present		
	If No, adjusted by	?							_
COC included the requested analyses? COC signed when relinquished and received? Samples received on ice? Samples properly preserved? Voa vials for aqueous samples have zero headspace? Cooler Comments: ANY "NO" EVALUATION (excluding After-Hour Receipt) REQUIRES CL		pt) REQUIRES CLIEN	Yes Yes Yes Yes Yes Yes Yes	FICATIO	No No No No No	V No	VOA vials su	ıbmitted	
Sample ID	Client Sample ID	Comments							
16K0767-01	1-HVE-Kitchen-Sprayer								
16K0767-02	2-HVE-Kitchen-Dishwash								
16K0767-03	3-HVE-Princpal-S1								

Microbac Laboratories, Inc.

16K0767

SampleID Matrix

1 Aqueous-2 Aqueous 3 Aqueous

SampleName

SampledBy

X Matthew Sneem

11/7/16

released to UPS

UPS 11/9/16 C0935 NT-0.5 Reve Lab: Which Rained 21.0°C

16K0767 Karen Ziolkowski

The Lotis Engineering Group, P.C. - East Amherst N HVE

11/09/2016

