HEALTH, SAFETY & RISK MANAGEMENT
Michael O'Rourke
Program Administrator

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#155-1617

Environmental Hygiene Report

Attn: Maria C. Rice
Superintendent of Schools
New Paltz Central School District
196 Main Street, New Paltz, NY 12561
Prepared by: Michael O'Rourke, RPIH – No. 0500399

Location(s)	High School & Lenape
Project No.	155-1617
Site Visit(s)	March 7, 2017
Report Date	March 14, 2017
Investigator(s)	Michael O'Rourke

Ulster County BOCES *Health, Safety &Risk Management* does not assert that all potential health or safety hazards at this site were evaluated during this survey. This survey is strictly limited to that which is identified in the Project Scope of the report.

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Author's Note: Parenthetical numerals at the end of a sentence reference the work with the corresponding notation in the **References** section. ***Please read this report in its entirety, including any attached appendices, to fully understand this investigation.***

Executive Summary

Per the requirements of Subpart 67-4: Lead Testing in School Drinking Water, we sampled water outlets in the schools of the New Paltz Central School District prior to the September 30th & October 31st 2016 deadlines. Locations that exceeded 15 parts per billion (ppb) were taken out of service while remedial measures were taken. On March 7, 2017 we re-sampled two plumbing fixtures, one at the district's high school & one a Lenape Elementary, for lead. Both locations showed lead levels less than 15 ppb and can be put back into service. We will update the district's remediation plan to reflect these sample results.

Project Scope

Re-sample plumbing fixtures in two locations in the New Paltz Central School District for lead. Review the data and information and prepare a written report for the New Paltz Central School District.

Materials & Methods

All samples were collected from the type of plumbing fixtures where potable water is commonly drawn using the NYSDOH protocol. First-draw samples for lead were collected after the water had sat in the pipes for at least eight hours. All samples were collected in 250 ml containers provided by EnviroTest Laboratories in Newburgh, NY. The samples were returned to the laboratory that day. EnviroTest is NYS ELAP-approved (#10142) for potable and non-potable water analysis.

Results Summary

All sample results and other data were reported to the administration of the local educational agency (LEA) via phone, fax, or e-mail as they became available to our department. See the Appendix for full laboratory reports.

Follow-Up Water Testing Results

March 7, 2017

School	Location	Re-Test Result (ppb)
High School	Room 213 W. Wall 2nd From Left Sink Faucet	11
Lenape Elementary	Room 209 Sink Faucet	2.0

Discussion

In order to be used as healthful fluid for human consumption, water must be free from organisms that are capable of causing disease and from minerals and organic substances that could produce adverse physiological effects. ***(1)*** The Safe Drinking Water Act sets maximum contaminant levels (MCLs) for numerous contaminants. These include various inorganic, volatile organic, and synthetic organic compounds. Public water systems are required to do initial and periodic testing of their source water.

Comments & Recommendations

Per the requirements of Subpart 67-4: Lead Testing in School Drinking Water, we sampled water outlets in the schools of the New Paltz Central School District prior to the September 30th & October 31st 2016 deadlines. Locations that exceeded 15 parts per billion (ppb) were taken out of service while remedial measures were taken. On March 7, 2017 we re-sampled two plumbing fixtures, one at the district's high school & one a Lenape Elementary, for lead. The fixture in the high school

\was in a home & careers classroom and the Lenape fixture was the sink in a general instruction classroom. Both locations showed lead levels less than 15 ppb and can be put back into service. We will update the district's remediation plan to reflect these sample results.

References

1. **American Water Works Association:** *Water Quality and Treatment*. New York, NY: McGraw-Hill, 1990
2. **Bailey, R.A. et. al.:** *Chemistry of the Environment*. New York, NY: Academic Press, 1978.
3. **USEPA:** *3Ts for Reducing Lead in Drinking Water in Schools.* Washington, DC: USEPA, 2006.

APPENDIX

Laboratory Report(s)

ANALYTICAL REPORT

Job Number: 420-117736-1

SDG Number: New Paltz CSD LEs/HS 3/17

Job Description: Ulster BOCES

For:
Ulster BOCES
175 Roue 32 North
New Paltz, NY 12561

Attention: Michael O'Rourke

Meredith W Ruthven
Customer Service Manager
mruthven@envirotestlaboratories.com
03/13/2017

EnviroTest Laboratories, Inc. Certifications and Approvals: NYSDOH 10142, NJDEP NY015, CTDOPH PH-0554

METHOD SUMMARY

Client: Ulster BOCES

Job Number: 420-117736-1
SDG Number: New Paltz CSD LEs/HS 3/17

Description	Lab Location	Method	Preparation Method
Matrix: Water			
ICPMS Metals by 200.8	EnvTest	EPA 200.8 Rev.5.4	
200 Series Drinking Water Prep Determination Step	EnvTest		EPA 200

Lab References:

EnvTest = EnviroTest

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Ulster BOCES

Job Number: 420-117736-1
SDG Number: New Paltz CSD LEs/HS 3/17

Method	Analyst	Analyst ID
EPA 200.8 Rev.5.4	Sirico, Derek	DS

SAMPLE SUMMARY

Client: Ulster BOCES

Job Number: 420-117736-1
SDG Number: New Paltz CSD LEs/HS 3/17

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
420-117736-1	01-HS- Room 213 W. Wall 2nd From Left Sink Faucet	Drinking Water	03/07/2017 0659	03/07/2017 1045
420-117736-2	02- LES-Room 209 Sink Faucet	Drinking Water	03/07/2017 0712	03/07/2017 1045

Michael O'Rourke
Ulster BOCES
175 Roue 32 North
New Paltz, NY 12561

Job Number: 420-117736-1
Sdg Number: New Paltz CSD LEs/HS 3/17

Client Sample ID: **01-HS- Room 213 W. Wall 2nd From Left Sink**
Lab Sample ID: **420-117736-1**

Date Sampled: 03/07/2017 0659
Date Received: 03/07/2017 1045
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4		Date Analyzed:		03/08/2017 1433	
Prep Method: 200		Date Prepared:		03/08/2017 0945	
Pb	11	ug/L	1.0	1.0	1.0

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175 Roue 32 North
New Paltz, NY 12561

Job Number: 420-117736-1
Sdg Number: New Paltz CSD LEs/HS 3/17

Client Sample ID: **02- LES-Room 209 Sink Faucet**
Lab Sample ID: **420-117736-2**

Date Sampled: 03/07/2017 0712
Date Received: 03/07/2017 1045
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4		Date Analyzed:		03/08/2017 1437	
Prep Method: 200		Date Prepared:		03/08/2017 0945	
Pb	2.0	ug/L	1.0	1.0	1.0

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

The following analytes are Not Part of the ELAP scope of accreditation:

Sulfur, Tungsten, Silicon, Bicarbonate Alkalinity, 7 Day BOD 5210C, 28 Day BOD, Soluble BOD, Carbon Dioxide**,** Carbonate Alkalinity, CBOD Soluble, Chlorine, Cyanide (WAD), Ferrous Iron, Ferric Iron, Total Nitrogen, Total Organic Nitrogen, Dissolved Oxygen, pH, Phenolphthalein Alkalinity, Solids (Fixed), Solids (Percent), Solids (Percent Moisture) **,** Solids (Percent Volatile), Solids (Volatile Suspended), Temperature, TKN (Soluble), COD (Soluble), Total Inorganic Carbon, Volatile Acids as Acetic Acid, 2-Aminopyridine, 3-Picoline, 1-Methyl-2-pyrrilidinone, Aziridine, Dimethyl sulfoxide, 1-Chlorohexane, Iron Bacteria, Salmonella, & Sulfur Reducing Bacteria.

The following analytes are Not Part of ELAP Potable Water scope of accreditation:

Cobalt (200.7, 200.8), Tin (200.7), Strontium (200.7), Gold (200.7), Platinum (200.7), Palladium (200.7), Titanium (200.7), Phosphorus (365.3), Nitrate-Nitrite (10-107-4-1C, 353.2), m-Xylene & p-Xylene (502.2, 524), Naphthalene (502.2), o-Xylene (502.2, 524), & Fecal Coliform (9222D).

The following analytes are Not Part of ELAP Solid and Hazardous Waste scope of accreditation:

Ammonia (SM 4500NH3G), TKN (351.2), Phosphorus (365.3), 1,2-Dichloro-1,1,2-trifluoroethane (8260), & Chlorodifluoromethane (8260).

The following analytes are Not Part of ELAP Non Potable Water scope of accreditation:

Dissolved Organic Carbon (5310C), Mecoprop (8151A), & MCPA (8151A).

Definitions and Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
%R	Percent Recovery
DL, RA, RE	Indicates a Dilution, Reanalysis or Reextraction.
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit - an estimate of the minimum amount of a substance that an analytical process can reliably detect. A MDL is analyte- and matrix-specific and may be laboratory-dependent.
ND	Not detected at the reporting limit (or MDL if shown).
QC	Quality Control
RL	Reporting Limit - the minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.
RPD	Relative Percent Difference - a measure of the relative difference between two points.

EnviroTest Laboratories, Inc.

CHAIN OF CUSTODY

Lab Name EnviroTest Laboratories
Address & Phone 315 Fullerton Avenue, Newburgh, New York 12550 845-562-0890

117736

REPORT# (Lab Use Only)

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION	PAGE 1 of	1
New Paltz CSD -		LES/HS 3/17		

ENVIROTEST PROJECT MANAGER	P.O. NUMBER	TOWN
Debra Bayer		

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
S. Callahan - resutls to morourke@ulsterboces.org	845-256-4090	

CLIENT NAME: New Paltz Central School District

CLIENT ADDRESS: 196 Main Street, New Paltz, NY 12561

COMPANY CONTRACTING THIS WORK (if applicable):

TURNAROUND TIME: NORMAL ____ QUICK ____ VERBAL ____

#OF COOLERS

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); D (Drinking Water) or W (Waste Water) Indicate; SOLID OR SEMISOLID; OTHER Specify

REQUIRED ANALYSES / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	Total # of Containers	40ml Vials HCl	Liter Amber HCl	250ml Plastic Nitric Acid	250ml Plastic Sulfuric Acid	Liter Plastic	250ml Plastic	Terra Core	Other	Other	REMARKS
3/7/2017	6:59	01 -HS - Room 213 W. Wall 2nd From Left Sink Faucet	1			1							Lead (DW 200.8)
"	7:12	02 - LES - Room 209 Sink Faucet	1			1							Lead (DW 200.8)
			1			1							Lead (DW 200.8)
			1			1							Lead (DW 200.8)
			1			1							Lead (DW 200.8)
			1			1							Lead (DW 200.8)
			1			1							Lead (DW 200.8)
			1			1							Lead (DW 200.8)
													Lead (DW 200.8)
													Lead (DW 200.8)
													Lead (DW 200.8)
													Lead (DW 200.8)
													Lead (DW 200.8)

420-117736-A-1
01-HS- Room 213 W. Wall 2nd From Left Sink Faucet
Location: Water Sample Coolers
Bottle: Other Client Container - unpreserved
Date Sampled: 3/7/2017 420-1033144

RELINQUISHED BY: (SIGNATURE)	COMPANY	DATE	TIME	RECEIVED BY: (SIGNATURE)	COMPANY	DATE	TIME
[signature]	Ulster BOCES	3/7/17	10:45				
SAMPLED BY: (SIGNATURE) [signature]	Ulster BOCES	3/7/17	10:45	RECEIVED BY: (SIGNATURE) 7:12 [initials] 3/7/17			
RELINQUISHED BY: (SIGNATURE)				RECEIVED BY: (SIGNATURE)			

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	Cooler Temp(C):	LABORATORY REMARKS:
[signature]	3/7/17	1045	YES NO	12.2°c	ICE (Y__N__) pH____ CL2____ Reveiwed by________ IR#3

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Ulster BOCES

Job Number: 420-117736-1
SDG Number: New Paltz CSD LEs/HS 3/17

Login Number: **117736**

Question	T/F/NA	Comment
Samples were collected by ETL employee as per SOP-SAM-1	NA	
The cooler's custody seal, if present, is intact.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is recorded.	True	19.2 C
Cooler Temp. is within method specified range.(0-6 C PW, 0-8 C NPW, or BAC <10 C	False	
If false, was sample received on ice within 6 hours of collection.	False	
Based on above criteria cooler temperature is acceptable.	True	Method doesn't require cooling
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	NA	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	