

#150-1617

HEALTH, SAFETY & RISK MANAGEMENT  
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## 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

<b>Location(s)</b>	Duzine Elementary
<b>Project No.</b>	150-1617
<b>Site Visit(s)</b>	February 23, 2017
<b>Report Date</b>	March 1, 2017
<b>Investigator(s)</b>	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.**

**BRINGING ULSTER COUNTY SCHOOLS TOGETHER TO ENHANCE TEACHING & LEARNING**

Ellenville Central Schools • Highland Central Schools • Kingston City Schools • New Paltz Central Schools •  
 Onteora Central Schools • Rondout Valley Central Schools • Saugerties Central Schools • New Paltz Central Schools

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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 30<sup>th</sup> & October 31<sup>st</sup> 2016 deadlines. Locations that exceeded 15 parts per billion (ppb) were taken out of service while remedial measures were taken. On February 23, 2017 we re-sampled two plumbing fixtures for lead. Both locations showed lead levels less than 15 ppb and can be put back into service.

## **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 the following day for analysis per the lab's directives. 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

**February 23, 2017**

School	Location	Re-Test Result (ppb)
Duzine Elementary	Room 2 Sink	9.7
Duzine Elementary	Room 8 Sink	7.9

## 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 30<sup>th</sup> & October 31<sup>st</sup> 2016 deadlines. Locations that exceeded 15 parts per billion (ppb) were taken out of service while remedial measures were taken. On February 23, 2017 we re-sampled two plumbing fixtures for lead. These were both classroom sinks in Duzine Elementary School. 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: 420-117293-1

SDG Number: New Paltz CSD - Duzine 3rd

Job Description: Ulster BOCES


For:

Ulster BOCES

175 Roue 32 North

New Paltz, NY 12561

Attention: Michael O'Rourke



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Meredith W Ruthven

Customer Service Manager

mruthven@envirotestlaboratories.com

02/28/2017

NYSDOH ELAP does not certify for all parameters. EnviroTest Laboratories does hold certification for all analytes where certification is offered by ELAP unless otherwise specified in the Certification Information section of this report. Pursuant to NELAP, this report may not be reproduced, except in full, without written approval of the laboratory. EnviroTest Laboratories Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our laboratory. All questions regarding this report should be directed to the EnviroTest Customer Service Representative.

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

## METHOD SUMMARY

Client: Ulster BOCES

Job Number: 420-117293-1  
SDG Number: New Paltz CSD - Duzine 3rd

<b>Description</b>	<b>Lab Location</b>	<b>Method</b>	<b>Preparation Method</b>
<b>Matrix: Water</b>			
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: 420-117293-1  
SDG Number: New Paltz CSD - Duzine 3rd

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA 200.8 Rev.5.4	Sirico, Derek	DS

## SAMPLE SUMMARY

Client: Ulster BOCES

Job Number: 420-117293-1  
SDG Number: New Paltz CSD - Duzine 3rd

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
420-117293-1	01 - Room 2 Sink	Drinking Water	02/23/2017 0736	02/23/2017 1545
420-117293-2	02 - Room 8 Sink	Drinking Water	02/23/2017 0737	02/23/2017 1545

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Ulster BOCES  
175 Route 32 North  
New Paltz, NY 12561

Job Number: 420-117293-1  
Sdg Number: New Paltz CSD - Duzine 3rd

**Client Sample ID:** 01 - Room 2 Sink  
**Lab Sample ID:** 420-117293-1

Date Sampled: 02/23/2017 0736  
Date Received: 02/23/2017 1545  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	02/24/2017 1347	
Prep Method: 200			Date Prepared:	02/24/2017 1125	
Pb	9.7	ug/L	1.0	1.0	1.0

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Ulster BOCES  
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New Paltz, NY 12561

Job Number: 420-117293-1  
Sdg Number: New Paltz CSD - Duzine 3rd

**Client Sample ID:** 02 - Room 8 Sink  
**Lab Sample ID:** 420-117293-2

Date Sampled: 02/23/2017 0737  
Date Received: 02/23/2017 1545  
Client Matrix: Drinking Water

Analyte	Result/Qualifier	Unit	RL	RL	Dilution
Method: 200.8 Rev.5.4			Date Analyzed:	02/24/2017 1347	
Prep Method: 200			Date Prepared:	02/24/2017 1125	
Pb	7.9	ug/L	1.0	1.0	1.0

## DATA REPORTING QUALIFIERS

<b>Lab Section</b>	<b>Qualifier</b>	<b>Description</b>
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## Certification Information

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**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

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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.

## CHAIN OF CUSTODY

REPORT# (Lab Use Only)

117293

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

PROJECT REFERENCE New Palitz CSD - Duzine 3rd	PROJECT NO	PROJECT LOCATION DES 3rd	MATRIX TYPE	REQUIRED ANALYSES	PAGE 1 of 1
ENVIROTEST PROJECT MANAGER Debra Bayer	P.O. NUMBER	TOWN	OTHER SPECIFY	40ml Vials HCl	TURNAROUND TIME
CLIENT (SITE) PM S. Callahan - results to mcrouke@ulsterbocees.org	CLIENT PHONE 845-256-4090	CLIENT FAX	COMPOSITE (C) OR GRAB (G) INDICATE	Liter Amber HCl	NORMAL
CLIENT NAME New Palitz Central School District			AQUEOUS (WATER)	250ml Plastic Nitric Acid	QUICK
CLIENT ADDRESS 196 Main Street, New Palitz, NY 12561			D (Drinking Water) or W (Waste Water) Indicate	250ml Plastic Sulfuric Acid	VERBAL
COMPANY CONTRACTING THIS WORK (if applicable)			SOLID OR SEMISOLID	Liter Plastic	#OF COOLERS
			OTHER	250ml Plastic	
				Terra Core	
				Other	

SAMPLE DATE	TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED								REMARKS	
			Total # of Containers	40ml Vials HCl	Liter Amber HCl	250ml Plastic Nitric Acid	250ml Plastic Sulfuric Acid	Liter Plastic	250ml Plastic	Terra Core		Other
2/23/2017	7:36	01 - Room 2 Sink	1			1						Lead (DW 200.8)
"	7:37	02 - Room 8 Sink	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)
			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)

RELINQUISHED BY (SIGNATURE)	COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	COMP/DATE	TIME
<i>[Signature]</i>	UCB	2/23/17	1545	<i>[Signature]</i>		
SAMPLED BY (SIGNATURE)	COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	COMP/DATE	TIME
<i>[Signature]</i>	UCB	2/23/17	0737	<i>[Signature]</i>		
RELINQUISHED BY (SIGNATURE)	COMPANY	DATE	TIME	RECEIVED BY (SIGNATURE)	COMP/DATE	TIME

RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	TIME	CUSTODY INTACT	Cooler Temp (C)	LABORATORY REMARKS
<i>[Signature]</i>	2/23/17	1545	YES	25.3	ICE (Y/N) pH CL2 Reversed by

ERS



## LOGIN SAMPLE RECEIPT CHECK LIST

Client: Ulster BOCES

Job Number: 420-117293-1  
SDG Number: New Paltz CSD - Duzine 3rd

**Login Number: 117293**

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.	False	
Cooler Temperature is recorded.	True	23.3 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 does not require cooling. AE 2/23/17
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	