

April 30, 2019

Ms. Rhonda Munford  
Energy Specialist/ Admin. Associate III Operations  
Prince George Elementary School  
4101 Courthouse Road  
Prince George, Virginia 23875  
[Rmunford@pgs.k12.va.us](mailto:Rmunford@pgs.k12.va.us)



**RE: Lead Drinking Water Sampling  
Prince George Public Schools  
Clements Junior High School  
Project No.: ENRI190005.02**

Dear Ms. Munford:

The EI Group, Inc (EI) was contracted to perform drinking water sampling at the following school:

- Clements Junior High School                      7800 Laurel Spring Road, Prince George, VA 23875

This survey was performed by Mr. Chadwick Bowman and Ms. Holly Monger, Industrial Hygienists for EI, on April 19, 2019. The purpose of this assessment was to determine if drinking water for the above building contained lead in excess of the regulated levels.

During the assessment, thirty (30) samples were collected from each cold-water supply fixture used for drinking or cooking, as well as fixtures used for emergency eye wash stations. Each sample was sealed in its own plastic jar and delivered on the day of the survey to Environmental Hazards Services, LLC (EHS) in Richmond, Virginia. EHS is accredited by the Virginia Environmental Laboratory Accreditation Program (VELAP) for Drinking Water (VELAP ID 460172).

Sample results indicate water samples meet all regulatory guidelines and regulations, with the exception of six samples taken from the eyewash stations located in Room 110, 113, 222, 223, 225, and 226 at Clements Junior High School. See Table 1: Drinking Water Sampling Results, below for specific sampling locations and results.

## **Procedures and Standards**

Lead is a toxic metal that is detrimental to human health. There is no known value of lead for the human body. Lead can remain in the bloodstream and bodily organs for up to a few months. Any amount of lead that is not excreted is absorbed into the bones, where it will collect indefinitely. Young children, 6 years of age and younger are at high risk for lead exposure due to frequent hand-to-mouth activity, and because their nervous systems are still undergoing development. There is currently no safe blood lead level for children, and the degree of harm from lead exposure can vary due to a number of factors such as the frequency, duration, and dose of exposure.

On the day of the survey, EI collected water samples in 250 mL plastic bottles at first draw. First draw refers to collecting a water sample after the water has been sitting in the pipes for at least 8 hours, and no longer than 18 hours prior to sampling. A total of thirty (30) water samples were collected at first draw throughout the building.

## Sample Results

The water sampling was conducted by the EI Group on April 19, 2019. The samples were submitted to EHS in Chesterfield, Virginia for analysis using the EPA recommended method SM 3113B-2010. EHS participates in the NELAC Accreditation Program, and the VA Environmental Laboratory Accreditation program (VELAP) for drinking water (VELAP ID 460172). Table 1 on the following page presents the results of the water samples analyzed by EHS on fixtures that were known and accessible to EI during the survey. The laboratory reports are attached in the Appendices.

**Table 1: Lead Drinking Water Sampling Results  
Clements Junior High School – Prince George County  
Survey Date: April 19, 2019**

<b>Sample No.</b>	<b>Sample Location</b>	<b>Result (ppb)</b>	<b>Exceedance</b>
19-04-03201-001	Library Sink	<1.00	NO
19-04-03201-002	Guidance Office Sink	<1.00	NO
19-04-03201-003	Teacher Work Room 2nd Floor	<1.00	NO
19-04-03201-004	Kitchen Sink near Window	<1.00	NO
19-04-03201-005	Kitchen Sink Back Wall	<1.00	NO
19-04-03201-006	Kitchen Sink near Room C15	<1.00	NO
19-04-03201-007	Short Fountain near Gym 1	<1.00	NO
19-04-03201-008	Short Fountain near Gym 2	<1.00	NO
19-04-03201-009	Girl's Locker Room Sink 1 Tall	<1.00	NO
19-04-03201-010	Girl's Locker Room Sink 2 Short	<1.00	NO
19-04-03201-011	AO3 Kitchen Sink	<1.00	NO
19-04-03201-012	Clinic A16 Sink	<1.00	NO
19-04-03201-013	Tall Fountain near Room 103	<1.00	NO
19-04-03201-014	Short Fountain near Room 103	<1.00	NO
19-04-03201-015	Room 106 Teacher Lounge Sink	<1.00	NO
<b>19-04-03201-016</b>	<b>Eyewash Station Room 110</b>	<b>58.3</b>	<b>YES</b>
19-04-03201-017	Eyewash Station Room 111	4.25	NO
<b>19-04-03201-018</b>	<b>Eyewash Station Room 113</b>	<b>77.2</b>	<b>YES</b>
19-04-03201-019	Tall Fountain near Room 117	<1.00	NO
19-04-03201-020	Short Fountain near Room 117	<1.00	NO
19-04-03201-021	Band 120 Fountain	<1.00	NO
19-04-03201-022	Choir 122 Fountain	1.05	NO
<b>19-04-03201-023</b>	<b>Eyewash Station Room 222</b>	<b>122</b>	<b>YES</b>
<b>19-04-03201-024</b>	<b>Eyewash Station Room 223</b>	<b>16.3</b>	<b>YES</b>
<b>19-04-03201-025</b>	<b>Eyewash Station Room 225</b>	<b>39.7</b>	<b>YES</b>
<b>19-04-03201-026</b>	<b>Eyewash Station Room 226</b>	<b>5190</b>	<b>YES</b>
19-04-03201-027	Tall Fountain near 229	<1.00	NO
19-04-03201-028	Short Fountain near 229	<1.00	NO
19-04-03201-029	Fountain 1 outside 201	<1.00	NO
19-04-03201-030	Fountain 2 outside 201	<1.00	NO

ug/L = ppb  
ug/L = micrograms per liter  
ppb = Parts Per Billion  
EPA – Maximum Contaminant Level for Lead in Drinking Water – 15 ppb  
**BOLD** = Exceedance of EPA Limit

## Recommendations

Based on the high lead levels found at the eyewash stations located in Room 110, 113, 222, 223, 225, and 226, EI recommends follow-up flush sampling in order to pinpoint the source (fixtures, or interior plumbing) of each eyewash station's water contamination. It is important to note that variations in lead concentration may be found among individual outlets in a building due to differences in the flow rates of those outlets, or the building materials used. EI further recommends that this fixture not be used until follow-up flush sampling has been completed.

## Disclaimer

This inspection and report is written for and intended for the use of Prince George Public Schools and their clients only. EI will not be held liable for any interpretations made, opinions formed, or conclusions drawn by any third party as a result of examining the lab results, inspection results or this report. Any interpretations, opinions, and conclusions will be those made, formed, and drawn solely by that third party.

We have endeavored to complete the services identified herein in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality and under similar conditions at this project. Should conditions change, future sampling may need to be conducted. No other representation, express or implied, is included or intended, and no warranty or guarantee is included or intended in this agreement, or any report, opinion, document, or other instrument of service.

EI appreciates the opportunity to provide these environmental services for Prince George Public Schools. Please feel free to call us at (804) 320-9300 if you have any questions or are in need of further assistance.

Sincerely,  
**The EI Group, Inc**



Holly Monger  
Industrial Hygienist, Richmond



Chadwick Bowman  
Manager, Richmond Operations

Appendices:  
Appendix A –EHS Laboratory Reports



Environmental Hazards Services, L.L.C.  
 7469 Whitepine Rd  
 Richmond, VA 23237  
 Telephone: 800.347.4010

## Lead in Drinking Water Analysis Report

Client: The EI Group Inc. - Glen Allen  
 4186 Innslake Dr  
 Glen Allen, VA 23060

Report Number: 19-04-03201  
 Received Date: 04/19/2019  
 Reported Date: 04/26/2019  
 Sampled By: Bowman/Monger  
 Tech Certification #:

Project/Test Address: Clements Jr High; 7800 Laurel Spring Rd; Prince George, VA 23875

Client Number:  
 48-1920

# Laboratory Results

Fax Number:  
 804-320-9302

Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
19-04-03201-001	CJH-1	04/19/2019	LIBRARY SINK	<1.00	04/22/2019	
19-04-03201-002	CJH-2	04/19/2019	GUIDANCE OFFICE SINK	<1.00	04/22/2019	
19-04-03201-003	CJH-3	04/19/2019	TEACHER WORK RM 2ND FL	<1.00	04/22/2019	
19-04-03201-004	CJH-4	04/19/2019	KITCHEN SINK NEAR WINDOW	<1.00	04/22/2019	
19-04-03201-005	CJH-5	04/19/2019	KITCHEN SINK BACK WALL	<1.00	04/22/2019	
19-04-03201-006	CJH-6	04/19/2019	KITCHEN SINK NEAR ROOM C15	<1.00	04/22/2019	
19-04-03201-007	CJH-7	04/19/2019	FOUNTAIN NEAR GYM 1 TALL	<1.00	04/22/2019	
19-04-03201-008	CJH-8	04/19/2019	FOUNTAIN NEAR GYM 2 SHORT	<1.00	04/22/2019	
19-04-03201-009	CJH-9	04/19/2019	GIRLS LOCKER ROOM SINK 1 TALL	<1.00	04/22/2019	
19-04-03201-010	CJH-10	04/19/2019	GIRLS LOCKER ROOM SINK 2 SHORT	<1.00	04/22/2019	
19-04-03201-011	CJH-11	04/19/2019	AO3 KITCHEN SINK	<1.00	04/22/2019	
19-04-03201-012	CJH-12	04/19/2019	CLINIC A16 SINK	<1.00	04/22/2019	
19-04-03201-013	CJH-13	04/19/2019	FOUNTAIN NEAR ROOM 103 TALL	<1.00	04/22/2019	

# Environmental Hazards Services, L.L.C

Client Number: 48-1920  
 Project/Test Address: Clements Jr High; 7800 Laurel Spring Rd; Prince George, VA 23875

Report Number: 19-04-03201

Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
19-04-03201-014	CJH-14	04/19/2019	FOUNTAIN NEAR ROOM 103 SHORT	<1.00	04/22/2019	
19-04-03201-015	CJH-15	04/19/2019	ROOM 106 TEACHER LOUNGE SINK	<1.00	04/22/2019	
19-04-03201-016	CJH-16	04/19/2019	EYEWASH STATION ROOM 110	58.3	04/22/2019	
19-04-03201-017	CJH-17	04/19/2019	EYEWASH STATION ROOM 111	4.25	04/22/2019	
19-04-03201-018	CJH-18	04/19/2019	EYEWASH STATION ROOM 113	77.2	04/25/2019	
19-04-03201-019	CJH-19	04/19/2019	FOUNTAIN NEAR ROOM 117 TALL	<1.00	04/22/2019	
19-04-03201-020	CJH-20	04/19/2019	FOUNTAIN NEAR ROOM 117 SHORT	<1.00	04/22/2019	
19-04-03201-021	CJH-21	04/19/2019	BAND 120 SINK FOUNTAIN	<1.00	04/22/2019	
19-04-03201-022	CJH-22	04/19/2019	CHOIR 122 FOUNTAIN	1.05	04/22/2019	
19-04-03201-023	CJH-23	04/19/2019	ROOM 222 EYEWASH STATION	112	04/22/2019	
19-04-03201-024	CJH-24	04/19/2019	ROOM 223 EYEWASH STATION	16.3	04/22/2019	
19-04-03201-025	CJH-25	04/19/2019	ROOM 225 EYEWASH STATION	39.7	04/25/2019	
19-04-03201-026	CJH-26	04/19/2019	ROOM 226 EYEWASH STATION	5190	04/25/2019	
19-04-03201-027	CJH-27	04/19/2019	FOUNTAIN NEAR 229 TALL	<1.00	04/22/2019	
19-04-03201-028	CJH-28	04/19/2019	FOUNTAIN NEAR 229 SHORT	<1.00	04/22/2019	
19-04-03201-029	CJH-29	04/19/2019	OUTSIDE 201 FOUNTAIN 1	<1.00	04/22/2019	
19-04-03201-030	CJH-30	04/19/2019	OUTSIDE 201 FOUNTAIN 2	<1.00	04/22/2019	

# Environmental Hazards Services, L.L.C

Client Number: 48-1920

Report Number: 19-04-03201

Project/Test Address: Clements Jr High; 7800 Laurel Spring Rd; Prince George, VA 23875

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Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
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Method: SM 3113B-2010  
Analyst: Jennalee Zlotkowski  
Accreditation #: VA 460172

Reviewed By Authorized Signatory: *Melissa Kanode*

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*Missy Kanode*

QA/QC Clerk

Sample Results denoted with a "less than" (<) sign contain less than the reporting limit which is 1 ppb.

The EPA Maximum Contaminant Level for Lead in Drinking Water is 15 ppb. The results herein conform to NELAC standards, where applicable, unless otherwise narrated on this report. Results represent the analysis of samples submitted by the client. Sample location, description, field parameter results, etc., were provided by the client. This report cannot be reproduced, except in full, without written approval from Environmental Hazards Services, L.L.C.

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LEGEND                      ug/L= micrograms per liter                      ppb = parts per billion

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# WATER Chain of Custody Form

Environmental Hazards Services, LLC

7469 Whitepine Rd, Richmond, VA 23237

800-347-4010 [www.leadlab.com](http://www.leadlab.com)

Company Name: The EI Group Address: 4186 Innslake Dr

Phone: 804-320-9300 Email: Cbowman@ei1.com Acct No. 48-1920

School Name & Address Clements Jr High; 7800 Laurel Spring Rd; Prince George, VA 23875

Collected By: Chad Bowman Holly Monger PO# \_\_\_\_\_

Age of Property: \_\_\_\_\_ Water Source: \_\_\_\_\_ Public or \_\_\_\_\_ Well

**TURN AROUND TIME:**

No.	Client Sample ID	Sample Location	Collection Date	Collection Time	AM	PM	Analyte
1	CJH-1	Library Sink	4/19/2019				Pb
2	CJH-2	Guidance Office Sink	4/19/2019				Pb
3	CJH-3	Teacher Work Rm 2nd FL	4/19/2019				Pb
4	CJH-4	Kitchen Sink Near Window	4/19/2019				Pb
5	CJH-5	Kitchen Sink Back Wall	4/19/2019				Pb
6	CJH-6	Kitchen Sink Near Room C15	4/19/2019				Pb
7	CJH-7	Fountain Near Gym 1 Tall	4/19/2019				Pb
8	CJH-8	Fountain Near Gym 2 Short	4/19/2019				Pb
9	CJH-9	Girls Locker Room Sink 1 Tall	4/19/2019				Pb
10	CJH-10	Girls Locker Room Sink 2 Short	4/19/2019				Pb
11	CJH-11	AO3 Kitchen Sink	4/19/2019				Pb
12	CJH-12	Clinic A16 Sink	4/19/2019				Pb
13	CJH-13	Fountain Near Room 103 Tall	4/19/2019				Pb
14	CJH-14	Fountain Near Room 103 Short	4/19/2019				Pb
15	CJH-15	Room 106 Teacher lounge Sink	4/19/2019				Pb
16	CJH-16	Eyewash Station Room 110	4/19/2019				Pb
17	CJH-17	Eyewash Station Room 111	4/19/2019				Pb
18	CJH-18	Eyewash Station Room 113	4/19/2019				Pb
19	CJH-19	Fountain Near Room 117 Tall	4/19/2019				Pb
20	CJH-20	Fountain Near Room 117 Short	4/19/2019				Pb
21	CJH-21	Band 120 Sink Fountain	4/19/2019				Pb
22	CJH-22	Choir 122 Fountain	4/19/2019				Pb
23	CJH-23	Room 222 Eyewash Station	4/19/2019				Pb
24	CJH-24	Room 223 Eyewash Station	4/19/2019				Pb
25	CJH-25	Room 225 Eyewash Station	4/19/2019				Pb
26	CJH-26	Room 226 Eyewash Station	4/19/2019				Pb
27	CJH-27	Fountain Near 229 Tall	4/19/2019				Pb
28	CJH-28	Fountain Near 229 Short	4/19/2019				Pb
29	CJH-29	Outside 201 Fountain 1	4/19/2019				Pb
30	CJH-30	Outside 201 Fountain 2	4/19/2019				Pb
31							Pb
32							Pb
33							Pb
34							Pb
35							Pb
36							Pb
37							Pb
38							Pb
39							Pb
40							Pb
41							Pb
42							Pb
43							Pb
44							Pb
45							Pb
46							Pb
47							Pb
48							Pb
49							Pb
50							Pb

19-04-03201



Due Date:  
04/26/2019  
(Friday)  
ER

*KW*

Released By: <u>Holly Monger</u>	Date & Time <u>4/19/19</u>	Signature: <u>Holly Monger</u>
Received By: <u>T. Bowman</u>	Date & Time <u>4/19/19 6p</u>	Signature: <u>[Signature]</u>