

May 20, 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

**RE: Lead Drinking Water Sampling
Prince George Public Schools
Clements Junior High School
Project No.: ENRI190006.01**

Dear Ms. Munford:

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

- Clements Junior High 7800 Laurel Spring Rd., Prince George, VA 23875

This survey was performed by Ms. Holly Monger, an Industrial Hygienist for EI, on May 10, 2019. The purpose of this assessment was to resample the lab eyewash stations for the above building, which contained six (6) lead samples in excess of the regulated levels following a previous analysis on April 19, 2019.

During the assessment, six (6) samples were collected from emergency eyewash stations. The samples were sealed in their own plastic jars 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 indicated lead content for the samples were below regulatory limits, with the exception of one (1) sample from the eyewash station location in Room 226. See Table 1: Eyewash Water Sampling Results, below for the 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 second draw (follow-up flush). 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. Follow-up flush refers to collecting a water sample after letting the water run at a pencil width for 30 seconds.

Sample Results

The water sampling was conducted by the EI Group on May 10, 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 below 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 Eyewash Water Sampling Results Clements Junior High School – Prince George County Schools Survey Date: May 10, 2019			
Sample No.	Sample Location	Result (ppb)	Exceedance
CJH-1	Room 223 Eyewash Station	2.30	NO
CJH-2	Room 226 Eyewash Station	68.7	YES
CJH-3	Room 110 Eyewash Station	14.5	NO
CJH-4	Room 225 Eyewash Station	<1.00	NO
CJH-5	Room 222 Eyewash Station	1.71	NO
CJH-6	Room 113 Eyewash Station	14.3	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

Sample analysis indicated that high lead levels were found in the Room 226 Eyewash Station. 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.

As long as the eyewash stations are not used for drinking or cooking, EI does not recommend any further action. It is recommended that the eyewash stations be flushed based on the manufacturer's instructions, which usually consist of flushing the eyewash station weekly to monthly. This is important to protect individuals against hazards associated with chemical or biological exposure during emergency situations.

Disclaimer

This inspection and report are 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: 19-05-01683
 Received Date: 05/10/2019
 Reported Date: 05/13/2019
 Sampled By: Holly Monger
 Tech Certification #:

Project/Test Address: Clements Junior Jigh School; 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
19-05-01683-001	CJH-1	05/10/2019	ROOM 223 EYEWASH	2.30	05/13/2019	
19-05-01683-002	CJH-2	05/10/2019	ROOM 226 EYEWASH	68.7	05/13/2019	
19-05-01683-003	CJH-3	05/10/2019	ROOM 110 EYEWASH	14.5	05/13/2019	
19-05-01683-004	CJH-4	05/10/2019	ROOM 225 EYEWASH	<1.00	05/13/2019	
19-05-01683-005	CJH-5	05/10/2019	ROOM 222 EYEWASH	1.71	05/13/2019	
19-05-01683-006	CJH-6	05/10/2019	ROOM 113 EYEWASH	14.3	05/13/2019	

Environmental Hazards Services, L.L.C

Client Number: 48-1920

Report Number: 19-05-01683

Project/Test Address: Clements Junior Jigh School; 7800 Laurel Spring Rd;
Prince George, VA 23875

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*

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.

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



Lead Chain-of-Custody Form

SHIP TO: 7469 Whitepine Rd. Richmond, VA 23237

Phone: (800) 347-4010 FAX: (804) 275-4907

ONLINE CLIENT PORTAL AVAILABLE FOR ANALYSIS RESULTS AT:

www.leadlab.com

Environmental Hazards Services, LLC

Company Name: The EI Group

Address: 4186 Innslake Dr.

Phone: 804-385-2102

Email: hmonger@ei.com
cbowman@ei.com

Fax:

City/State/Zip: Glen Allen, VA 23060

Account Number:

19-05-01683



Due Date:

05/17/2019

(Friday)

ER

Project Name / Testing Address: Clements Junior High School, 7800 Laurel Spring Rd. Prince George, VA 23875

Collected By: Holly Menger Certification Number: _____ P.O. #: _____

Do wipe samples submitted meet ASTM E1792 requirements? Yes No

Sample Type - Key For Grid

Single Dust Wipe = DW Air = A
Paint Chip = PC Soil = S
Composite Soil = CS

Sample Location Abbreviations - Key For Grid

F = Front 1 = 1stFL BA = Bath BR = Bedroom
R = Rear 2 = 2ndFL DR = Dining Room O = Basement
LT = Left RT = Right KT = Kitchen

Surface Type for Dust Wipes - Key For Grid

FL = Floor SL = Window Sill
CP = Carpet WW = Window Well

TURN AROUND TIMES: IF NO TAT IS SPECIFIED, SAMPLE(S) WILL BE PROCESSED AND CHARGED AS 3 DAY TAT.

No.	Client Sample ID	Collection Date Time	Sample Type	Collection Location (LR, KT, LTFBR, RTRBR, etc.)	Surface Type	Paint Chip		Air		Comments
						Area	% by weight	Total Time (minutes)	Flow Rate (L/min)	
1	CJH-1	05/10/19 A.M. / P.M.	Pb	Room 223 eyewash	X					
2	CJH-2	A.M. / P.M.		Room 226 eyewash	X					
3	CJH-3	A.M. / P.M.		Room 110 eyewash	X					
4	CJH-4	A.M. / P.M.		Room 225 eyewash	X					
5	CJH-5	A.M. / P.M.		Room 222 eyewash	X					
6	CJH-6	A.M. / P.M.		Room 113 eyewash	X					
7		A.M. / P.M.			X					
8		A.M. / P.M.			X					
9		A.M. / P.M.			X					
10		A.M. / P.M.			X					

1 Day

2 Day

3 Day

* Same Day - Must Call Ahead

* Weekend - Must Call Ahead

Released by: Holly Menger

Received by: 6889 Signature: Holly Menger Date/Time: 05/10/19 1:20pm

Signature: Holly Menger

Date/Time: 05/10/19