

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](mailto:Rmunford@pgs.k12.va.us)

**RE: Lead Drinking Water Sampling  
Prince George Public Schools  
North Elementary School  
Project No.: ENRI190006.04**

Dear Ms. Munford:

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

- North Elementary                      11106 Old Stage 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 drinking water for the above building, which contained four (4) lead samples in excess of the regulated levels following a previous analysis on April 19, 2019.

During the assessment, four (4) samples were collected which were used for drinking or cooking. 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 for the Room 217 sink. See Table 1: Drinking 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 Drinking Water Sampling Results North Elementary School – Prince George County Schools Survey Date: May 10, 2019			
Sample No.	Sample Location	Result (ppb)	Exceedance
NES-1	Room 128 Sink	<1.00	NO
NES-2	Room 212 Sink	<1.00	NO
<b>NES-3</b>	<b>Room 217 Sink</b>	<b>155</b>	<b>YES</b>
NES-4	Room 222 Sink	2.27	NO
ug/L = ppb ug/L = micrograms per liter ppb = Parts Per Billion EPA – Maximum Contaminant Level for Lead in Drinking Water – 15 ppb <b>BOLD</b> = Exceedance of EPA Limit			

## Recommendations

Based on the high lead levels found at the sink located in Room 217, EI recommends replacement of the drinking water fixture inside Room 217.

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 replacement of the drinking water fixture and follow-up flush sampling has been completed.

## 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: 19-05-01674

Received Date: 05/10/2019  
 Reported Date: 05/13/2019  
 Sampled By: Holly Monger  
 Tech Certification #:

Project/Test Address: North Elementary School; 11106 Old Stage 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
19-05-01674-001	NES-1	05/10/2019	ROOM 128 SINK	<1.00	05/13/2019	
19-05-01674-002	NES-2	05/10/2019	ROOM 212 SINK	<1.00	05/13/2019	
19-05-01674-003	NES-3	05/10/2019	ROOM 217 SINK	155	05/13/2019	
19-05-01674-004	NES-4	05/10/2019	ROOM 222 SINK	2.27	05/13/2019	

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



A-Pool only  
5-day  
per Chad

# 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



19-05-01674

Due Date:  
05/17/2019  
(Friday)  
ER

Company Name: The EI Group Account Number: \_\_\_\_\_

Address: 4186 Innslake Dr. City/State/Zip: Glen Allen, VA 23060

Phone: 804-385-2102 Email: hmonger@ei1.com Fax: \_\_\_\_\_  
cbowman@ei1.com

Project Name / Testing Address: North Elementary School: 1106 Old Stage Rd. Project City/State (Required): 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	Sample Location	Abbreviations - Key For Grid	Surface Type for Dust	Wipes - Key For Grid
Single Dust Wipe = DW Air = A	FR = Family Room	F = Front 1 = 1 <sup>st</sup> FL	FL = Floor	SL = Window Sill
Paint Chip = PC Soil = S	LR = Living Room	R = Rear 2 = 2 <sup>nd</sup> FL	CP = Carpet	WW = Window Well
Composite Soil = CS	DN = Den	LT = Left RT = Right		
		BA = Bath DR = Dining Room KT = Kitchen		
		BR = Bedroom O = Basement		

## 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	Area		Paint Chip		Air		Comments
							Length X Width in inches (provide paint chip area only if requesting mg/cm <sup>2</sup> )	mg/cm <sup>2</sup>	% by weight	Total Time (minutes)	Flow Rate (L/min)	Volume Total (Liters)	
1	NES-1	05/10/19		Pb	Room 128 Sink		X						
2	NES-2				Room 212 Sink		X						
3	NES-3				Room 217 Sink		X						
4	NES-4				Room 222 Sink		X						
5							X						
6							X						
7							X						
8							X						
9							X						
10							X						

1 Day 2 Day 3 Day \* Same Day - Must Call Ahead \* Weekend - Must Call Ahead

Released by: Holly Menger Signature: Holly Menger Date/Time: 05/10/19  
Received by: STONE Signature: STONE Date/Time: 5/10/19 1:24pm