

April 26, 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
North Elementary School
Project No.: ENRI190005.07**

Dear Ms. Munford:

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

- North Elementary School 11106 Old Stage Road, Prince George, VA 23875

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

During the assessment, one (1) sample was collected from each cold-water supply fixture used for drinking or cooking. 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 three samples taken from the drinking tap in Classrooms 128, 212, 217, and 222 at North Elementary 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 sixty-three (63) water samples were collected at first draw throughout the school.

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
North Elementary School
Survey Date: April 19, 2019**

Sample No.	Sample Location	Result (ppb)	Exceedance
NE-1	Room 129 Sink	1.14	NO
NE-2	Room 217 Sink	31.2	YES
NE-3	Room 128 Sink	17.3	YES
NE-4	Room 109 Sink	<1.00	NO
NE-5	Room 119 Fountain	4.08	NO
NE-6	Room 216 Sink	7.27	NO
NE-7	Room 118 Fountain	<1.00	NO
NE-8	Room 224 Fountain	1.87	NO
NE-9	Room 225 Fountain	3.71	NO
NE-10	Room 208 Sink	2.85	NO
NE-11	Room 209 Sink	5.33	NO
NE-12	Room 221 Sink	7.62	NO
NE-13	Room 222 Sink	41.3	YES
NE-14	Room 211 Fountain	1.96	NO
NE-15	Room 203 Fountain	1.27	NO
NE-16	Room 110 Fountain	1.91	NO
NE-17	Room 210 Sink	1.29	NO
NE-18	Room 200 Sink	3.28	NO
NE-19	Room 201 Sink	1.45	NO
NE-20	Room 121 Fountain	<1.00	NO
NE-21	Room 202 Fountain	5.05	NO
NE-22	Room 204 Fountain	1.03	NO
NE-23	Room 120 Sink	3.97	NO
NE-24	Room 103 Sink	5.98	NO
NE-25	Room 220 Fountain	1.21	NO
NE-26	Room 111 Fountain	<1.00	NO
NE-27	Room 114 Fountain	1.40	NO
NE-28	Room 124 Sink	4.59	NO
NE-29	Room 105 Sink	4.42	NO
NE-30	Room 104 Fountain	1.86	NO
NE-31	Room 112 Fountain	<1.00	NO
NE-32	Room 102 Sink	3.95	NO
NE-33	Room 205 Fountain	<1.00	NO
NE-34	Room 107 Fountain	11.1	NO
NE-35	Room 212 Sink	17.2	YES
NE-36	Room 115 Fountain	4.99	NO
NE-37	Room 213 Sink	4.93	NO
NE-38	Room A123 Sink	9.39	NO
NE-39	Room 123 Fountain	4.45	NO
NE-40	Room 223 Fountain	3.43	NO
NE-41	Room 125 Fountain	1.67	NO
NE-42	Room 116 Fountain	1.70	NO
NE-43	Room 126 Fountain	3.30	NO

NE-44	Room 127 Fountain	2.09	NO
NE-45	Room 101 Fountain	4.64	NO
NE-46	Room 100 Art Sink	5.96	NO
NE-47	Room 215 Fountain	1.89	NO
NE-48	Kitchen Food Prep Sink	9.67	NO
NE-49	Library Office Sink	4.49	NO
NE-50	Room 214 Sink	5.14	NO
NE-51	Room 106 Fountain	1.12	NO
NE-52	2 nd Grade Hallway Fountain 1	<1.00	NO
NE-53	Room 222 Sink	4.05	NO
NE-54	4 th Grade Hall Fountain 1	<1.00	NO
NE-55	3 rd Grade Hall Fountain 2	<1.00	NO
NE-56	4 th Grade Hall Fountain 2	<1.00	NO
NE-57	3 rd Grade Hall Fountain 1	<1.00	NO
NE-58	Room 117 Fountain	1.29	NO
NE-59	Kitchen Sink Rinse	4.70	NO
NE-60	Cafeteria Hall Fountain	<1.00	NO
NE-61	2 nd Grade Hall Fountain 1	<1.00	NO
NE-62	Room 108 Sink	4.81	NO
NE-63	Room 108 (Dup)	5.38	NO

ug/L NE- = 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 level found at the sink in Classrooms 128, 212, 217 and 222, EI recommends follow-up flush sampling in order to pinpoint the source (fixtures, or interior plumbing) of the drinking 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



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: 19-04-03207
 Received Date: 04/20/2019
 Reported Date: 04/25/2019
 Sampled By: Bowman/Monger
 Tech Certification #:

Project/Test Address: North Elementary School; 11106 Old Stage Road; 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
19-04-03207-001	NE-1	04/19/2019	129 SINK	1.14	04/24/2019	
19-04-03207-002	NE-2	04/19/2019	217 SINK	31.2	04/24/2019	
19-04-03207-003	NE-3	04/19/2019	128 SINK	17.3	04/24/2019	
19-04-03207-004	NE-4	04/19/2019	109 SINK	<1.00	04/24/2019	
19-04-03207-005	NE-5	04/19/2019	119 FOUNTAIN	4.08	04/24/2019	
19-04-03207-006	NE-6	04/19/2019	216 SINK	7.27	04/24/2019	
19-04-03207-007	NE-7	04/19/2019	118 FOUNTAIN	<1.00	04/24/2019	
19-04-03207-008	NE-8	04/19/2019	224 FOUNTAIN	1.87	04/24/2019	
19-04-03207-009	NE-9	04/19/2019	225 SINK FOUNTAIN	3.71	04/24/2019	
19-04-03207-010	NE-10	04/19/2019	208 SINK	2.85	04/24/2019	
19-04-03207-011	NE-11	04/19/2019	209 SINK	5.33	04/24/2019	
19-04-03207-012	NE-12	04/19/2019	221 SINK	7.62	04/24/2019	
19-04-03207-013	NE-13	04/19/2019	222 SINK	41.3	04/24/2019	

Environmental Hazards Services, L.L.C

Client Number: 48-1920

Report Number: 19-04-03207

Project/Test Address: North Elementary School; 11106 Old Stage Road;
Prince George, VA 23875

Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
19-04-03207-014	NE-14	04/19/2019	211 FOUNTAIN	1.96	04/24/2019	
19-04-03207-015	NE-15	04/19/2019	203 FOUNTAIN	1.27	04/24/2019	
19-04-03207-016	NE-16	04/19/2019	110 FOUNTAIN	1.91	04/24/2019	
19-04-03207-017	NE-17	04/19/2019	210 SINK	1.29	04/24/2019	
19-04-03207-018	NE-18	04/19/2019	200 SINK	3.28	04/24/2019	
19-04-03207-019	NE-19	04/19/2019	201 SINK	1.45	04/24/2019	
19-04-03207-020	NE-20	04/19/2019	121 FOUNTAIN	<1.00	04/24/2019	
19-04-03207-021	NE-21	04/19/2019	202 FOUNTAIN	5.05	04/24/2019	
19-04-03207-022	NE-22	04/19/2019	204 FOUNTAIN	1.03	04/24/2019	
19-04-03207-023	NE-23	04/19/2019	120 SINK	3.97	04/24/2019	
19-04-03207-024	NE-24	04/19/2019	103 SINK	5.98	04/24/2019	
19-04-03207-025	NE-25	04/19/2019	220 FOUNTAIN	1.21	04/24/2019	
19-04-03207-026	NE-26	04/19/2019	111 FOUNTAIN	<1.00	04/24/2019	
19-04-03207-027	NE-27	04/19/2019	114 FOUNTAIN	1.40	04/24/2019	
19-04-03207-028	NE-28	04/19/2019	124 SINK	4.59	04/24/2019	
19-04-03207-029	NE-29	04/19/2019	105 SINK	4.42	04/24/2019	
19-04-03207-030	NE-30	04/19/2019	104 FOUNTAIN	1.86	04/24/2019	
19-04-03207-031	NE-31	04/19/2019	112 FOUNTAIN	<1.00	04/24/2019	
19-04-03207-032	NE-32	04/19/2019	102 SINK	3.95	04/24/2019	
19-04-03207-033	NE-33	04/19/2019	205 FOUNTAIN	<1.00	04/24/2019	

Environmental Hazards Services, L.L.C

Client Number: 48-1920

Report Number: 19-04-03207

Project/Test Address: North Elementary School; 11106 Old Stage Road;
Prince George, VA 23875

Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
19-04-03207-034	NE-34	04/19/2019	107 FOUNTAIN	11.1	04/24/2019	
19-04-03207-035	NE-35	04/19/2019	212 SINK	17.2	04/24/2019	
19-04-03207-036	NE-36	04/19/2019	115 FOUNTAIN	4.99	04/24/2019	
19-04-03207-037	NE-37	04/19/2019	213 SINK	4.93	04/24/2019	
19-04-03207-038	NE-38	04/19/2019	A123 SINK	9.39	04/24/2019	
19-04-03207-039	NE-39	04/19/2019	123 FOUNTAIN	4.45	04/24/2019	
19-04-03207-040	NE-40	04/19/2019	223 FOUNTAIN	3.43	04/24/2019	
19-04-03207-041	NE-41	04/19/2019	125 FOUNTAIN	1.67	04/24/2019	
19-04-03207-042	NE-42	04/19/2019	116 FOUNTAIN	1.70	04/24/2019	
19-04-03207-043	NE-43	04/19/2019	126 FOUNTAIN	3.30	04/24/2019	
19-04-03207-044	NE-44	04/19/2019	127 FOUNTAIN	2.09	04/24/2019	
19-04-03207-045	NE-45	04/19/2019	101 FOUNTAIN	4.64	04/24/2019	
19-04-03207-046	NE-46	04/19/2019	ART SINK 100	5.96	04/24/2019	
19-04-03207-047	NE-47	04/19/2019	215 FOUNTAIN	1.89	04/24/2019	
19-04-03207-048	NE-48	04/19/2019	FOOD PREP KITCHEN SINK	9.67	04/24/2019	
19-04-03207-049	NE-49	04/19/2019	LIBRARY OFFICE SINK	4.49	04/24/2019	
19-04-03207-050	NE-50	04/19/2019	214 SINK	5.14	04/24/2019	
19-04-03207-051	NE-51	04/19/2019	106 FOUNTAIN	1.12	04/24/2019	
19-04-03207-052	NE-52	04/19/2019	2ND GRADE HALLWAY FOUNTAIN	<1.00	04/24/2019	
19-04-03207-053	NE-53	04/19/2019	222 SINK	4.05	04/24/2019	

Environmental Hazards Services, L.L.C

Client Number: 48-1920

Report Number: 19-04-03207

Project/Test Address: North Elementary School; 11106 Old Stage Road;
Prince George, VA 23875

Lab Sample Number	Client Sample ID	Collection Date	Collection Location	Concentration ug/L (ppb)	Analysis Date	Narrative ID
19-04-03207-054	NE-54	04/19/2019	4TH GRADE HALL FOUNTAIN	<1.00	04/24/2019	
19-04-03207-055	NE-55	04/19/2019	3RD GRADE HALL FOUNTAIN	<1.00	04/24/2019	
19-04-03207-056	NE-56	04/19/2019	4TH GRADE HALL FOUNTAIN	<1.00	04/24/2019	
19-04-03207-057	NE-57	04/19/2019	3RD GRADE HALL FOUNTAIN	<1.00	04/24/2019	
19-04-03207-058	NE-58	04/19/2019	117 FOUNTAIN	1.29	04/24/2019	
19-04-03207-059	NE-59	04/19/2019	KITCHEN RINSE SINK	4.70	04/24/2019	
19-04-03207-060	NE-60	04/19/2019	CAFETERIA HALL FOUNTAIN	<1.00	04/24/2019	
19-04-03207-061	NE-61	04/19/2019	2ND GRADE HALL FOUNTAIN	<1.00	04/24/2019	
19-04-03207-062	NE-62	04/19/2019	108 SINK	4.81	04/24/2019	
19-04-03207-063	NE-63	04/19/2019	108 SINK DUP	5.38	04/24/2019	

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

19-04-03207



Laboratories™

Environmental Hazards Services, LLC

WATER

Chain of Custody Form

7469 Whitepine Rd, Richmond, VA 23237

800-347-4010

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

KH

Company Name: The EI Group Address: 4186 Innslake Dr
 Phone: 804-320-9300 Email: Cbowman@ei1.com Acct No. _____
 School Name & Address: North Elementary School; 11106 Old Stage 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	NE-1	129 Sink	4/19/2019				Pb
2	NE-2	217 Sink	4/19/2019				Pb
3	NE-3	128 Sink	4/19/2019				Pb
4	NE-4	109 Sink	4/19/2019				Pb
5	NE-5	119 Fountain	4/19/2019				Pb
6	NE-6	216 Sink	4/19/2019				Pb
7	NE-7	118 Fountain	4/19/2019				Pb
8	NE-8	224 Fountain	4/19/2019				Pb
9	NE-9	225 Sink Fountain	4/19/2019				Pb
10	NE-10	208 Sink	4/19/2019				Pb
11	NE-11	209 Sink	4/19/2019				Pb
12	NE-12	221 Sink	4/19/2019				Pb
13	NE-13	222 Sink	4/19/2019				Pb
14	NE-14	211 Fountain	4/19/2019				Pb
15	NE-15	203 Fountain	4/19/2019				Pb
16	NE-16	110 Fountain	4/19/2019				Pb
17	NE-17	210 Sink	4/19/2019				Pb
18	NE-18	200 Sink	4/19/2019				Pb
19	NE-19	201 Sink	4/19/2019				Pb
20	NE-20	121 Fountain	4/19/2019				Pb
21	NE-21	202 Fountain	4/19/2019				Pb
22	NE-22	204 Fountain	4/19/2019				Pb
23	NE-23	120 Sink	4/19/2019				Pb
24	NE-24	103 Sink	4/19/2019				Pb
25	NE-25	220 Fountain	4/19/2019				Pb
26	NE-26	111 Fountain	4/19/2019				Pb
27	NE-27	114 Fountain	4/19/2019				Pb
28	NE-28	124 Sink	4/19/2019				Pb
29	NE-29	105 Sink	4/19/2019				Pb
30	NE-30	104 Fountain	4/19/2019				Pb
31	NE-31	112 Fountain	4/19/2019				Pb
32	NE-32	102 Sink	4/19/2019				Pb
33	NE-33	205 Fountain	4/19/2019				Pb
34	NE-34	107 Fountain	4/19/2019				Pb
35	NE-35	212 Sink	4/19/2019				Pb
36	NE-36	115 Fountain	4/19/2019				Pb
37	NE-37	213 Sink	4/19/2019				Pb
38	NE-38	A123 Sink	4/19/2019				Pb
39	NE-39	123 Fountain	4/19/2019				Pb
40	NE-40	223 Fountain	4/19/2019				Pb
41	NE-41	125 Fountain	4/19/2019				Pb
42	NE-42	116 Fountain	4/19/2019				Pb
43	NE-43	126 Fountain	4/19/2019				Pb
44	NE-44	127 Fountain	4/19/2019				Pb
45	NE-45	101 Fountain	4/19/2019				Pb
46	NE-46	Art Sink 100	4/19/2019				Pb
47	NE-47	215 Fountain	4/19/2019				Pb
48	NE-48	Food Prep Kitchen Sink	4/19/2019				Pb
49	NE-49	Library Office Sink	4/19/2019				Pb
50	NE-50	214 Sink	4/19/2019				Pb

Released By: _____ Date & Time _____ Signature: _____
 Received By: RT HARRIS Date & Time 4/20/19 12:29 pm Signature: [Signature]



Environmental Hazards Services, LLC

WATER Chain of Custody Form

7469 Whitepine Rd, Richmond, VA 23237

800-3-

Company Name: The EI Group

Address: 4186 Innslake Dr

Phone: 804-320-9300

Email: cbowman@ei1.com

Acct # _____

School Name & Address: North Elementary School; 11106 Old Stage Road; Prince George, VA 23875

Collected By: Chad Bowman, Holly Monger

PO# _____

Age of Property: _____

Water Source: Public or

Well

TURN AROUND TIME: 5 Days

No.	Client Sample ID	Sample Location	Collection Date	Collection Time	AM	PM	Analyte
1	NE-51	106 Fountain	4/19/2019				Pb
2	NE-52	2nd Grade Hallway Fountain 2	4/19/2019				Pb
3	NE-53	222 Sink	4/19/2019				Pb
4	NE-54	4th Grade Hallway Fountain 1	4/19/2019				Pb
5	NE-55	3rd Grade Hallway Fountain 2	4/19/2019				Pb
6	NE-56	4th Grade Hallway Fountain 2	4/19/2019				Pb
7	NE-57	3rd Grade Hallway Fountain 1	4/19/2019				Pb
8	NE-58	117 Fountain	4/19/2019				Pb
9	NE-59	Kitchen Rinse Sink	4/19/2019				Pb
10	NE-60	Cafeteria Hall Fountain	4/19/2019				Pb
11	NE-61	2nd Grade Hallway Fountain 1	4/19/2019				Pb
12	NE-62	108 Sink	4/19/2019				Pb
13	NE-63	108 Sink (Dup)	4/19/2019				Pb
14			4/19/2019				Pb
15			4/19/2019				Pb
16			4/19/2019				Pb
17			4/19/2019				Pb
18			4/19/2019				Pb
19			4/19/2019				Pb
20			4/19/2019				Pb
21			4/19/2019				Pb
22			4/19/2019				Pb
23			4/19/2019				Pb
24			4/19/2019				Pb
25			4/19/2019				Pb
26			4/19/2019				Pb
27			4/19/2019				Pb
28			4/19/2019				Pb
29			4/19/2019				Pb
30			4/19/2019				Pb
31			4/19/2019				Pb
32			4/19/2019				Pb
33			4/19/2019				Pb
34			4/19/2019				Pb
35			4/19/2019				Pb
36			4/19/2019				Pb
37			4/19/2019				Pb
38			4/19/2019				Pb
39			4/19/2019				Pb
40			4/19/2019				Pb
41			4/19/2019				Pb
42			4/19/2019				Pb
43			4/19/2019				Pb
44			4/19/2019				Pb
45			4/19/2019				Pb
46			4/19/2019				Pb
47			4/19/2019				Pb
48			4/19/2019				Pb
49			4/19/2019				Pb
50			4/19/2019				Pb

Released By: <u>1</u>	Date & Time	Signature:
Received By: <u>KTHARRIS</u>	Date & Time <u>4-20-19 2:29 PM</u>	Signature: <u>[Signature]</u>