



Helen G. Haley, CPA
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E.T. Hamilton School
Kresson School
Osage School
Signal Hill School
Voorhees Middle School

May 23, 2022

Signal Hill Elementary School
Voorhees Township Board of Education
33 Signal Hill Drive
Voorhees, NJ 08043

Dear Signal Hill Elementary School Community:

Our school system is committed to protecting student, teacher, and staff health. To protect our community and be in compliance with the Department of Education regulations, the Voorhees Township Board of Education tested our schools' drinking water for lead.

Drinking water outlets such as hallway water coolers (water fountains) and classroom bubblers (water fountains in the classroom sink) throughout the District were shut down in March 2020 as part of the Covid-19 protocols. In December 2021, during winter break, these drinking outlets were reactivated to perform water testing (first draw). After this testing, the units were immediately taken out of service again. After receiving the test results on these inactive outlets, several outlets throughout the District had to be retested using a "flush test". This testing was done on February 18, 2022 and the outlets were immediately deactivated after the sample was obtained. The results of the flush testing had no lead detected or results below the 15 ppb threshold. These samples indicated that the elevated levels were localized to the outlet. As a result, these outlets were abandoned and/or will be replaced with a new fixture. In many cases, bottle filling stations will replace hallway water fountains. Specific remedial action is listed in the chart below. These drinking water outlets have been out of service and unavailable for use since March 2020.

In accordance with the Department of Education regulations, Signal Hill Elementary School implemented immediate remedial measures for any drinking water outlet with a result greater than the action level of 15 µg/l (parts per billion [ppb]).

Testing Results

Following instructions given in technical guidance developed by the New Jersey Department of Environmental Protection, we completed a plumbing profile for each of the buildings within the Voorhees Township Board of Education. Through this effort, we identified and tested all drinking water and food preparation outlets. Of the 43 samples taken, all but 1 tested below the lead action level established by the US Environmental Protection Agency for lead in drinking water (15 µg/l [ppb]).

The table below identifies the drinking water outlets that tested above the 15 µg/l for lead, the actual lead level, and what remedial action the Voorhees Township Board of Education has taken to reduce the levels of lead at these locations.

Sample Location	First Draw Result in µg/l (ppb)	Remedial Action
Hallway Water Cooler	17.1	Disconnected outlet in 2020 due to Covid-19 protocol. Replacing with filtered bottle filling station.

Health Effects of Lead

High levels of lead in drinking water can cause health problems. Lead is most dangerous for pregnant women, infants, and children under 6 years of age. It can cause damage to the brain and kidneys, and can interfere with the production of red blood cells that carry oxygen to all parts of your body. Exposure to high levels of lead during pregnancy contributes to low birth weight and developmental delays in infants. In young children, lead exposure can lower IQ levels, affect hearing, reduce attention span, and hurt school performance. At *very* high levels, lead can even cause brain damage. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults.

How Lead Enters our Water

Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like groundwater, rivers and lakes. Lead enters drinking water primarily as a result of the corrosion, or wearing away, of materials containing lead in the water distribution system and in building plumbing. These materials include lead-based solder used to join copper pipe, brass, and chrome-plated brass faucets. In 1986, Congress banned the use of lead solder containing greater than 0.2% lead, and restricted the lead content of faucets, pipes and other plumbing materials. However, even the lead in plumbing materials meeting these new requirements is subject to corrosion. When water stands in lead pipes or plumbing systems containing lead for several hours or more, the lead may dissolve into the drinking water. This means the first water drawn from the tap in the morning *may* contain fairly high levels of lead.

Lead in Drinking Water

Lead in drinking water, although rarely the sole cause of lead poisoning, can significantly increase a person's total lead exposure, particularly the exposure of children under the age of 6. EPA estimates that drinking water can make up 20% or more of a person's total exposure to lead.

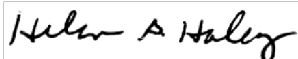
For More Information

A copy of the test results is available on the District website.

For more information on reducing lead exposure around your home and the health effects of lead, visit EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your healthcare provider.

If you are concerned about lead exposure at this facility or in your home, you may want to ask your health care providers about testing children to determine levels of lead in their blood.

Sincerely,



Helen G. Haley, CPA
Business Administrator/Board Secretary



USA Environmental Management, Inc.
Environmental ♦ Engineering ♦ Construction

March 11, 2022

Clark Mathes
Voorhees BOE
329 NJ-73
Voorhees Township, New Jersey 08043

Re: Final Report
Signal Hill Lead in Drinking Water Analysis

Dear Mr. Mathes:

USA Environmental Management, Inc., (USAEMI) was contracted by Voorhees Board of Education (BOE) to collect and provide laboratory analysis for lead-in-drinking water samples in accordance with N.J.A.C. 6A:26. The initial sampling of forty-three (43) drinking water outlets was, conducted by Voorhees BOE representatives, on December 27, 2021, starting at 12:00 AM with collection complete at 12:21 PM. The flushing process was complete by Voorhees BOE representatives on the day prior, December 26, 2021. Per Voorhees BOE, the water within the building was not used by any employee or any other affiliated school personnel in the hours between flushing and sampling. Samples were collected approximately twelve (12) hours after outlets were flushed.

Initial samples were collected from drinking water outlets, including bubblers, water coolers, and sinks throughout the building. Samples were collected in sterile 250 milliliter bottles, pre-treated with nitric acid solution (HNO₃). At each outlet, a “first draw” sample was collected prior to any known usage of the outlet.

Due to the one (1) outlet (Hallway Water Cooler Sample No. 06) exceeding the U.S. Environmental Protection Agency (USEPA) and the State of New Jersey, Department of Environmental Protection (NJDEP) Action Level of 15 parts per billion (ppb), USAEMI collected a flush sample on February 18, 2022. Immediately after receiving the initial analytical results, the outlet was removed as a drinking water source. On the morning of February 18, 2022, the outlet was run for ~30 seconds prior to collecting the flush sample in a sterile 250 milliliter bottles, pre-treated with nitric acid solution (HNO₃), to determine the potential source of the elevated results

The samples were delivered by USAEMI to EMSL Analytical Inc., located at 200 Route 130 North in Cinnaminson, New Jersey. EMSL is National Environmental Laboratory Accreditation Program (NELAP) certified by the State of New Jersey Department of Environmental Protection (NJDEP), for drinking water analysis (Certification No. 03036).

Analysis was completed in accordance with United States Environmental Protection Agency (USEPA) Method 200.8. The USEPA and NJDEP Action Level of 15 parts per billion (ppb), or



micrograms per liter ($\mu\text{g/L}$), was used to determine if further testing and/or remediation is warranted.

Results of analysis are summarized in Table 1 below:

Table 1 – Signal Hill Elementary School, Lead in Water Analysis					
Sample ID No.	Sample Location	Testing Parameter	Outlet Code	First Draw Results (ppb) 12/27/2021	Flush Results (ppb) 2/18/2022
01	Hallway Water Cooler	EPA 200.8	WC	ND	NA
02	Teachers' Lounge Sink (Cold)	EPA 200.8	KC	ND	NA
03	Kitchen Sink (Cold)	EPA 200.8	KC	ND	NA
04	Dish room Ice Machine	EPA 200.8	OT	1.02	NA
05	Dish room Cafeteria Outlet	EPA 200.8	KC	ND	NA
06	Hallway Water Cooler	EPA 200.8	WC	17.1	ND
07	Room 22 Bubbler	EPA 200.8	DW	1.5	NA
08	Room 23 Bubbler	EPA 200.8	DW	ND	NA
09	Room 24 Bubbler	EPA 200.8	DW	3.73	NA
10	Music Room Bubbler	EPA 200.8	DW	1.79	NA
11	Room 1 Bubbler	EPA 200.8	DW	ND	NA
12	Room 2 Bubbler	EPA 200.8	DW	ND	NA
13	Room 3 Bubbler	EPA 200.8	DW	1.62	NA
14	Room 4 Bubbler	EPA 200.8	DW	ND	NA
15	Hallway Water Cooler	EPA 200.8	WC	ND	NA
16	Room 26 Bubbler	EPA 200.8	DW	1.72	NA
17	Room 27 Bubbler	EPA 200.8	DW	1.34	NA
18	Hallway Water Cooler	EPA 200.8	WC	ND	NA
19	Nurse's Sink	EPA 200.8	NS	ND	NA
20	Main Office Sink (Cold)	EPA 200.8	KC	ND	NA
21	Room 5 Bubbler	EPA 200.8	DW	ND	NA
22	Room 6 Bubbler	EPA 200.8	DW	ND	NA
23	Room 7 Bubbler	EPA 200.8	DW	1.82	NA
24	Room 8 Bubbler	EPA 200.8	DW	1.27	NA
25	Room 9 Bubbler	EPA 200.8	DW	2.92	NA
26	Room 30 Bubbler	EPA 200.8	DW	ND	NA
27	Room 31 Bubbler	EPA 200.8	DW	ND	NA
28	Room 33 Bubbler	EPA 200.8	DW	ND	NA
29	Room 12 Bubbler	EPA 200.8	DW	ND	NA
30	Room 11 Bubbler	EPA 200.8	DW	6.93	NA
31	Room 10 Bubbler	EPA 200.8	DW	1.69	NA
32	Hallway Water Cooler	EPA 200.8	WC	1.51	NA
33	Room 14 Bubbler	EPA 200.8	DW	ND	NA
34	Room 15 Bubbler	EPA 200.8	DW	ND	NA



Table 1 – Signal Hill Elementary School, Lead in Water Analysis

Sample ID No.	Sample Location	Testing Parameter	Outlet Code	First Draw Results (ppb) 12/27/2021	Flush Results (ppb) 2/18/2022
35	Room 16 Bubblers	EPA 200.8	DW	1.04	NA
36	Room 34 Bubblers	EPA 200.8	DW	ND	NA
37	Room 35 Bubblers	EPA 200.8	DW	ND	NA
38	Room 21 Bubblers	EPA 200.8	DW	ND	NA
39	Room 20 Bubblers	EPA 200.8	DW	ND	NA
40	Room 19 Bubblers	EPA 200.8	DW	ND	NA
41	Room 18 Bubblers	EPA 200.8	DW	1.37	NA
42	Room 17 Bubblers	EPA 200.8	DW	ND	NA
43	Hallway Water Cooler	EPA 200.8	WC	1.01	NA

Code Legend: DW = Drinking Water Bubblers IM = Ice Machine
 WC = Water Cooler (Chiller Unit) BF = Bathroom Faucet
 FP = Food Preparation Faucet SC = Service Connector
 KC = Kitchen Faucet OT = Other (Utility Sinks)
 NS = Nurse’s Office Sink HB = Exterior Hose Bib
 NA = Not Applicable ND = Not Detected

Lead levels within the potable water in the “first draw” samples were detected above the USEPA and NJDEP Action Level of 15 ppb in one (1) location. Sample 06 –Hallway Water Cooler, had a result of 17.1 ppb which is above the action level. Follow-up flush sampling was conducted on February 18, 2022, at the same hallway water cooler.

The flush sample collected at the Hallway Water Cooler at sample location 6 (SH-DW-88-Hall) is reported with no lead detected. The sample indicates that the contamination is localized to the outlet. The water cooler should be abandoned or replaced with a new.

Should you have any questions or require additional information, please contact the undersigned at your convenience.

Respectfully Submitted:
USA ENVIRONMENTAL MANAGEMENT, INC.

Matthew Hines, CIEC
 Senior Industrial Hygienist

Attachment 1: Analytical Report and Chain of Custody for Lead in Water Sampling

ATTACHMENT I

Analytical Report and Chain of Custody for Lead in Water Sampling



EMSL Analytical, Inc.

200 Route 130 North, Cinnaminson, NJ 08077

Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

Matthew Hines
USA Environmental Management, Inc.
344 West State Street
Trenton, NJ 08618

1/19/2022

Phone: (609) 656-8101
Fax:

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 1/5/2022. The results are tabulated on the attached data pages for the following client designated project:

22-020895-01 Signal Hill School

The reference number for these samples is EMSL Order #012200478. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Phillip Worby, Environmental Chemistry
Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.EMSL.com> EnvChemistry2@emsl.com

EMSL Order: 012200478
 CustomerID: USA53
 CustomerPO: 22-020895-01
 ProjectID:

Attn: **Matthew Hines**
USA Environmental Management, Inc.
344 West State Street
Trenton, NJ 08618

Phone: (609) 656-8101
 Fax:
 Received: 1/5/2022 01:25 PM

Project: 22-020895-01 Signal Hill School

Analytical Results

Client Sample Description 1 WC F Hallway Water Cooler **Collected:** 12/27/2021 12:03:00 PM **Lab ID:** 012200478-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:13

Client Sample Description 2 KC F Teacher's Lounge Sink (Cold) **Collected:** 12/27/2021 12:04:00 PM **Lab ID:** 012200478-0002

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:18

Client Sample Description 3 KC F Kitchen Sink (Cold) **Collected:** 12/27/2021 12:04:00 PM **Lab ID:** 012200478-0003

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:19

Client Sample Description 4 OT F Dishroom Ice Machine **Collected:** 12/27/2021 12:05:00 PM **Lab ID:** 012200478-0004

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.02	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:21

Client Sample Description 5 KC F Dishroom Cafeteria Outlet **Collected:** 12/27/2021 12:05:00 PM **Lab ID:** 012200478-0005

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:22

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Analytical Results

Client Sample Description 6 WC F Hallway Water Cooler **Collected:** 12/27/2021 12:06:00 PM **Lab ID:** 012200478-0006

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	17.1	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:24

Client Sample Description 7 DW F Room 22 Bubblers **Collected:** 12/27/2021 12:06:00 PM **Lab ID:** 012200478-0007

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.50	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:29

Client Sample Description 8 DW F Room 23 Bubblers **Collected:** 12/27/2021 12:06:00 PM **Lab ID:** 012200478-0008

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:30

Client Sample Description 9 DW F Room 24 Bubblers **Collected:** 12/27/2021 12:07:00 PM **Lab ID:** 012200478-0009

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	3.73	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:32

Client Sample Description 10 DW F Music Room Bubblers **Collected:** 12/27/2021 12:24:00 PM **Lab ID:** 012200478-0010

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.79	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:33

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Project: 22-020895-01 Signal Hill School

Analytical Results

Client Sample Description 11 DW F Room 1 Bubler **Collected:** 12/27/2021 12:08:00 PM **Lab ID:** 012200478-0011

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:35

Client Sample Description 12 DW F Room 2 Bubler **Collected:** 12/27/2021 12:08:00 PM **Lab ID:** 012200478-0012

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:39

Client Sample Description 13 DW F Room 3 Bubler **Collected:** 12/27/2021 12:09:00 PM **Lab ID:** 012200478-0013

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.62	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:41

Client Sample Description 14 DW F Room 4 Bubler **Collected:** 12/27/2021 12:09:00 PM **Lab ID:** 012200478-0014

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:42

Client Sample Description 15 WC F Hallway Water Cooler **Collected:** 12/27/2021 12:08:00 PM **Lab ID:** 012200478-0015

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:47

**EMSL Analytical, Inc.**

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Analytical Results

Client Sample Description 16 DW F Room 26 Bubblers **Collected:** 12/27/2021 12:09:00 PM **Lab ID:** 012200478-0016

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.72	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:49

Client Sample Description 17 DW F Room 27 Bubblers **Collected:** 12/27/2021 12:09:00 PM **Lab ID:** 012200478-0017

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.34	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:50

Client Sample Description 18 WC F Hallway Water Cooler **Collected:** 12/27/2021 12:10:00 PM **Lab ID:** 012200478-0018

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:52

Client Sample Description 19 NS F Nurse's Sink **Collected:** 12/27/2021 12:09:00 PM **Lab ID:** 012200478-0019

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:53

Client Sample Description 20 KC F Main Office Sink (Cold) **Collected:** 12/27/2021 12:25:00 PM **Lab ID:** 012200478-0020

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/17/2022 KB 23:55

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Project: 22-020895-01 Signal Hill School

Analytical Results

Client Sample Description 21 DW F Room 5 Bubblers **Collected:** 12/27/2021 12:12:00 PM **Lab ID:** 012200478-0021

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:07

Client Sample Description 22 DW F Room 6 Bubblers **Collected:** 12/27/2021 12:12:00 PM **Lab ID:** 012200478-0022

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:12

Client Sample Description 23 DW F Room 7 Bubblers **Collected:** 12/27/2021 12:12:00 PM **Lab ID:** 012200478-0023

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.82	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:14

Client Sample Description 24 DW F Room 8 Bubblers **Collected:** 12/27/2021 12:13:00 PM **Lab ID:** 012200478-0024

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.27	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:15

Client Sample Description 25 DW F Room 9 Bubblers **Collected:** 12/27/2021 12:13:00 PM **Lab ID:** 012200478-0025

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	2.92	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:17

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Analytical Results

Client Sample Description 26 DW F Room 30 Bubblers **Collected:** 12/27/2021 12:14:00 PM **Lab ID:** 012200478-0026

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:18

Client Sample Description 27 DW F Room 31 Bubblers **Collected:** 12/27/2021 12:15:00 PM **Lab ID:** 012200478-0027

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:20

Client Sample Description 28 DW F Room 33 Bubblers **Collected:** 12/27/2021 12:15:00 PM **Lab ID:** 012200478-0028

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:25

Client Sample Description 29 DW F Room 12 Bubblers **Collected:** 12/27/2021 12:16:00 PM **Lab ID:** 012200478-0029

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:26

Client Sample Description 30 DW F Room 11 Bubblers **Collected:** 12/27/2021 12:16:00 PM **Lab ID:** 012200478-0030

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	6.93	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:28

**EMSL Analytical, Inc.**

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Analytical Results

Client Sample Description 31 DW F Room 10 Bubblers **Collected:** 12/27/2021 12:16:00 PM **Lab ID:** 012200478-0031

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.69	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:29

Client Sample Description 32 WC F Hallway Water Cooler **Collected:** 12/27/2021 12:17:00 PM **Lab ID:** 012200478-0032

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.51	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:34

Client Sample Description 33 DW F Room 14 Bubblers **Collected:** 12/27/2021 12:18:00 PM **Lab ID:** 012200478-0033

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:35

Client Sample Description 34 DW F Room 15 Bubblers **Collected:** 12/27/2021 12:18:00 PM **Lab ID:** 012200478-0034

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:37

Client Sample Description 35 DW F Room 16 Bubblers **Collected:** 12/27/2021 12:18:00 PM **Lab ID:** 012200478-0035

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.04	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:38

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.EMSL.com> EnvChemistry2@emsl.com

EMSL Order: 012200478
 CustomerID: USA53
 CustomerPO: 22-020895-01
 ProjectID:

Attn: **Matthew Hines**
USA Environmental Management, Inc.
344 West State Street
Trenton, NJ 08618

Phone: (609) 656-8101
 Fax:
 Received: 1/5/2022 01:25 PM

Project: 22-020895-01 Signal Hill School

Analytical Results

Client Sample Description 36 **Collected:** 12/27/2021 **Lab ID:** 012200478-0036
 DW F Room 34 Bubblers 12:19:00 PM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:43

Client Sample Description 37 **Collected:** 12/27/2021 **Lab ID:** 012200478-0037
 DW F Room 35 Bubblers 12:19:00 PM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:45

Client Sample Description 38 **Collected:** 12/27/2021 **Lab ID:** 012200478-0038
 DW F Room 21 Bubblers 12:19:00 PM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:46

Client Sample Description 39 **Collected:** 12/27/2021 **Lab ID:** 012200478-0039
 DW F Room 20 Bubblers 12:20:00 PM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:48

Client Sample Description 40 **Collected:** 12/27/2021 **Lab ID:** 012200478-0040
 DW F Room 19 Bubblers 12:20:00 PM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:49

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077
 Phone/Fax: (856) 303-2500 / (856) 858-4571
<http://www.EMSL.com> EnvChemistry2@emsl.com

EMSL Order: 012200478
 CustomerID: USA53
 CustomerPO: 22-020895-01
 ProjectID:

Attn: **Matthew Hines**
USA Environmental Management, Inc.
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Trenton, NJ 08618

Phone: (609) 656-8101
 Fax:
 Received: 1/5/2022 01:25 PM

Project: 22-020895-01 Signal Hill School

Analytical Results

Client Sample Description 41 **Collected:** 12/27/2021 **Lab ID:** 012200478-0041
 DW F Room 18 Bubblers 12:21:00 PM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.37	1.00 ppb	1/17/2022 KB	1/18/2022 KB 00:56

Client Sample Description 42 **Collected:** 12/27/2021 **Lab ID:** 012200478-0042
 DW F Room 17 Bubblers 12:21:00 PM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	1/17/2022 KB	1/18/2022 KB 14:26

Client Sample Description 43 **Collected:** 12/27/2021 **Lab ID:** 012200478-0043
 WC F Hallway Water Cooler 12:21:00 PM

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	1.01	1.00 ppb	1/17/2022 KB	1/18/2022 KB 14:27

Definitions:

- MDL - method detection limit
- J - Result was below the reporting limit, but at or above the MDL
- ND - indicates that the analyte was not detected at the reporting limit
- RL - Reporting Limit (Analytical)
- D - Dilution Sample required a dilution which was used to calculate final results

012200478



USA Environmental Management, Inc.

344 West State Street
Trenton, New Jersey 08618

RECEIVED
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22 JAN -5 PM 1:26

CLIENT: Voorhees Board of Education **DATE:** 12-27-21 **TYPE OF ANALYSIS**
BUILDING: Signal Hill School **TECHNICIAN:** M. Hines EPA 200.9
ADDRESS: 33 Signal Hill Drive Voorhees, NJ 08043 **PROJECT #:** 22-020895-01

Potable Water Sampling for Lead Concentration – Chain of Custody Record

ID No.	Code	Type	Floor – Room Number/Location	Time of Collection (24 Hrs)
1	WC	F	Hallway Water Cooler	1203
2	KC	F	Teachers' Lounge Sink (Cold)	1204
3	KC	F	Kitchen Sink (Cold)	1204
4	OT	F	Dishroom Ice Machine	1205
5	KC	F	Dishroom Cafeteria Outlet	1205
6	WC	F	Hallway Water Cooler	1206
7	DW	F	Room 22 Bubbler	1206
8	DW	F	Room 23 Bubbler	1206
9	DW	F	Room 24 Bubbler	1207
10	DW	F	Music Room Bubbler	1224
11	DW	F	Room 1 Bubbler	1208
12	DW	F	Room 2 Bubbler	1208
13	DW	F	Room 3 Bubbler	1209
14	DW	F	Room 4 Bubbler	1209
15	WC	F	Hallway Water Cooler	1208

CODE LEGEND:	
DW = Drinking Water Bubbler	EC = Home Economics Sink
WC = Water Cooler (Chiller Unit)	BF = Bathroom Faucet
CF = Classroom Faucet	NS = Nurse's Office Sink
KC = Kitchen Faucet	SC = Service Connector
OT = Other _____	CS = Custodial Sink

TYPE LEGEND:
P = Primary (First Draw)
F = Flush

TURN-AROUND-TIME	
<input type="checkbox"/> 1-Week	<input checked="" type="checkbox"/> 2 wk

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Matthew Hines <i>Matthew Hines</i>	1-5-22		I.		

COMMENTS: _____

MSH 1-5-22 1:25

Pg 1 of 3

012200478



USA Environmental Management, Inc.

344 West State Street
Trenton, New Jersey 08618

CLIENT: Voorhees Board of Education **DATE:** 12-27-21 **TYPE OF ANALYSIS**
BUILDING: Signal Hill School **TECHNICIAN:** M. Hines EPA 200.9
ADDRESS: 33 Signal Hill Drive Voorhees, NJ 08043 **PROJECT #:** 22-020895-01

Potable Water Sampling for Lead Concentration – Chain of Custody Record

ID No.	Code	Type	Floor – Room Number/Location	Time of Collection (24 Hrs)
16	DW	F	Room 26 Bubblers	1209
17	DW	F	Room 27 Bubblers	1209
18	WC	F	Hallway Water Cooler	1210
19	NS	F	Nurse's Sink	1209
20	KC	F	Main Office Sink (Cold)	1225
21	DW	F	Room 5 Bubblers	1212
22	DW	F	Room 6 Bubblers	1212
23	DW	F	Room 7 Bubblers	1212
24	DW	F	Room 8 Bubblers	1213
25	DW	F	Room 9 Bubblers	1213
26	DW	F	Room 30 Bubblers	1214
27	DW	F	Room 31 Bubblers	1215
28	DW	F	Room 33 Bubblers	1215
29	DW	F	Room 12 Bubblers	1216
30	DW	F	Room 11 Bubblers	1216

CODE LEGEND:	
DW = Drinking Water Bubblers	EC = Home Economics Sink
WC = Water Cooler (Chiller Unit)	BF = Bathroom Faucet
CF = Classroom Faucet	NS = Nurse's Office Sink
KC = Kitchen Faucet	SC = Service Connector
OT = Other	CS = Custodial Sink

TYPE LEGEND:
P = Primary (First Draw)
F = Flush

TURN-AROUND-TIME	
<input type="checkbox"/> 1-Week	<input checked="" type="checkbox"/> 2 wk

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Matthew Hines <i>Matthew Hines</i>	1-5-22		I.		

COMMENTS: _____

Pg 2 of 3

012200478



USA Environmental Management, Inc.

344 West State Street
Trenton, New Jersey 08618

CLIENT: Voorhees Board of Education **DATE:** 12-27-21 **TYPE OF ANALYSIS**
BUILDING: Signal Hill School **TECHNICIAN:** M. Hines EPA 200.9
ADDRESS: 33 Signal Hill Drive Voorhees, NJ 08043 **PROJECT #:** 22-020895-01

Potable Water Sampling for Lead Concentration – Chain of Custody Record

ID No.	Code	Type	Floor – Room Number/Location	Time of Collection (24 Hrs)
31	DW	F	Room 10 Bubblers	1216
32	WC	F	Hallway Water Cooler	1217
33	DW	F	Room 14 Bubblers	1218
34	DW	F	Room 15 Bubblers	1218
35	DW	F	Room 16 Bubblers	1218
36	DW	F	Room 34 Bubblers	1219
37	DW	F	Room 35 Bubblers	1219
38	DW	F	Room 21 Bubblers	1219
39	DW	F	Room 20 Bubblers	1220
40	DW	F	Room 19 Bubblers	1220
41	DW	F	Room 18 Bubblers	1221
42	DW	F	Room 17 Bubblers	1221
43	WC	F	Hallway Water Cooler	1221

CODE LEGEND:	
DW = Drinking Water Bubblers	EC = Home Economics Sink
WC = Water Cooler (Chiller Unit)	BF = Bathroom Faucet
CF = Classroom Faucet	NS = Nurse's Office Sink
KC = Kitchen Faucet	SC = Service Connector
OT = Other _____	CS = Custodial Sink

TYPE LEGEND:
P = Primary (First Draw)
F = Flush

TURN-AROUND-TIME	
<input type="checkbox"/> 1-Week	<input checked="" type="checkbox"/> 2 wk

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Matthew Hines <i>Matthew Hines</i>	1-5-22		I.		

COMMENTS: _____

Pg 3 of 3



EMSL Analytical, Inc.

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Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn:

Matthew Hines
USA Environmental Management, Inc.
344 West State Street
Trenton, NJ 08618

3/4/2022

Phone: (609) 656-8101

Fax:

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 2/21/2022. The results are tabulated on the attached data pages for the following client designated project:

**Voorhees Board Of Education / Signal Hill School / 33 Signal Hill
Drive, Voorhees, NJ 08043 / Project #: 22-020895-01**

The reference number for these samples is EMSL Order #012202797. Please use this reference when calling about these samples. If you have any questions, please do not hesitate to contact me at (856) 303-2500.

Approved By:

Owen McKenna, Chemistry Laboratory Director



The test results contained within this report meet the requirements of NELAP and/or the specific certification program that is applicable, unless otherwise noted.
NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, CA ELAP 1877

The samples associated with this report were received in good condition unless otherwise noted. This report relates only to those items tested as received by the laboratory. The QC data associated with the sample results meet the recovery and precision requirements established by the NELAP, unless specifically indicated. All results for soil samples are reported on a dry weight basis, unless otherwise noted. This report may not be reproduced except in full and without written approval by EMSL Analytical, Inc.

**EMSL Analytical, Inc.**

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<http://www.EMSL.com>EnvChemistry2@emsl.com

EMSL Order:	012202797
CustomerID:	USA53
CustomerPO:	22-020895-01
ProjectID:	

Attn: **Matthew Hines**
USA Environmental Management, Inc.
344 West State Street
Trenton, NJ 08618

Phone: (609) 656-8101
 Fax:
 Received: 2/21/2022 11:10 AM

Project: **Voorhees Board Of Education / Signal Hill School / 33 Signal Hill Drive, Voorhees, NJ 08043 / Project #: 22-020895-01**

Analytical Results

Client Sample Description	6-WC-F Hallway Water Cooler	Collected:	2/18/2022 11:10:00 AM	Lab ID:	012202797-0001
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Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
METALS					
200.8	Lead	ND	1.00 ppb	3/2/2022 JM	3/2/2022 20:29 VD

Definitions:

- MDL - method detection limit
- J - Result was below the reporting limit, but at or above the MDL
- ND - indicates that the analyte was not detected at the reporting limit
- RL - Reporting Limit (Analytical)
- D - Dilution Sample required a dilution which was used to calculate final results



012202797

USA Environmental Management, Inc.

344 West State Street
Trenton, New Jersey 08618

CLIENT: Voorhees Board of Education **DATE:** 2-18-22 **TYPE OF ANALYSIS**
BUILDING: Signal Hill School **TECHNICIAN:** M. Hines EPA 200.9
ADDRESS: 33 Signal Hill Drive Voorhees, NJ 08043 **PROJECT #:** 22-020895-01

Potable Water Sampling for Lead Concentration – Chain of Custody Record

ID No.	Code	Type	Floor – Room Number/Location	Time of Collection (24 Hrs)
6	WC	F	Hallway Water Cooler	1110

CODE LEGEND:	
DW = Drinking Water Bubbler	EC = Home Economics Sink
WC = Water Cooler (Chiller Unit)	BF = Bathroom Faucet
CF = Classroom Faucet	NS = Nurse's Office Sink
KC = Kitchen Faucet	SC = Service Connector
OT = Other	CS = Custodial Sink

TYPE LEGEND:
P = Primary (First Draw)
F = Flush

TURN-AROUND-TIME	
<input type="checkbox"/> 1-Week	<input checked="" type="checkbox"/> 2 wk

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Matthew Hines			I.		

COMMENTS: _____

USA Environmental Management, Inc.
 Branch Office: 344 West State Street, Trenton, New Jersey 08618
 Voice: 609.656.8101 Fax: 609.656.8103 www.usaemi.com