

# **Lead in Drinking Water First Draw Sampling Report**

## **Chapel Hill Academy**

*Prepared For:*

### **Chapel Hill Academy**

31 Chapel Hill Road  
Lincoln Park, NJ 07035

*Performed By:*

**AERO Environmental Services Inc.**  
275 Rt 10 East, 220-306 Succasunna, NJ 07876

**Report Date**

June 1, 2022

**AERO ENVIRONMENTAL SERVICES, INC.**

ENGINEERING • CONSULTING • TESTING

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275 Route 10 East, Suite 220-306 Succasunna, NJ 07876

Telephone (973) 920-9061

Fax (973) 529-0335

June 1, 2022

Mr. Thomas Celli  
Director  
Chapel Hill Academy  
31 Chapel Hill Road  
Lincoln Park, NJ 07876

**Re: Lead in Drinking Water Report - First Draw Sampling**

Dear Mr. Celli

Enclosed is the final report for the Lead in Drinking Water-First Draw Sampling & Analysis conducted at the Chapel Hill Academy.

A total of sixteen (16) first draw samples, including one (1) field blank, were collected while at the facility. All first draw samples were analyzed.

All samples were labeled with a unique identification number and transported to EMSL Analytical for analysis for lead in drinking water using EPA Method 200.8

Based on laboratory analysis of the samples analyzed, **zero (0)** samples exceeded the action limit. No remedial action is required. All lead results were below the 15 µg/L New Jersey Action Level.

If you have any questions, please contact me at directly at 973-920-9061.

Sincerely,



Michael Berta, CSP, CPEA  
AERO Environmental Services Inc.  
mberta@aeroenvironmental.net

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## 1.0 INTRODUCTION

AERO Environmental Services, Inc. was contracted by the Chapel Hill Academy to conduct Lead in Drinking Water Sampling at one (1) School. The water sampling was performed on April 22, 2022, by Michael Berta of AERO Environmental Services Inc. All samples were analyzed by EMSL Analytical Inc. at 200 Route 130 North, Cinnaminson, NJ 08077, a New Jersey certified Lead in Drinking Water testing facility.

The purpose of the sampling was to collect first draw drinking water samples from all currently active drinking water locations in the facility and have them analyzed for lead concentration levels.

The initial first draw samples were taken from all currently active drinking water outlets and food preparation outlets in the facility. These samples determine the lead content of water sitting in water outlets that are used for drinking or cooking within the facility.

Lead in water can originate from the outlet fixture or plumbing upstream of the outlet fixture (e.g., pipe, joints, valves, fittings etc.). Lead can also enter a facility through the drinking water system. Sample results are then compared to assist in determining the sources of lead contamination and the appropriate corrective measures.

If initial first draw test results reveal lead concentrations greater than 15 µg/l (ppb) in a 250 mL sample for a given outlet, a follow-up flush testing is required to determine if the lead contamination results are from the fixture or from interior plumbing.

All samples were collected in a 250mL wide mouth plastic container that was prepackaged by the analytical laboratory. At each sample location, the first draw sample was taken after it was determined that the water had been standing in the plumbing system for greater than eight hours but less than forty-eight hours.

*-END OF SECTION-*

## 2.0 SUMMARY OF FINDINGS

First Draw samples were collected and submitted for lead analysis. The table(s) below shows the concentration of lead (parts per billion or microgram per liter) at each school location sampled. Sampling conducted followed NJDEP protocols, and all samples were submitted to EMSL Analytical under a completed Chain of Custody Form.

**Table 1: Chapel Hill Academy**

Date	Location Description	Sample Location Code	First Draw Result (ppb)	Action Ppb	Over Limit Yes/No
04/22/22	Hallway Basement by Gym Office Chiller	CHS-BF-HW Basement by Gym Office	ND	15	No
04/22/22	Cafeteria	CHS-BF-Cafeteria	ND	15	No
04/22/22	Kitchen Sink	CHS-KO-Kitchen Sink	5.85	15	No
04/22/22	Hallway by Room 110	CHS-BF-HW by 110	ND	15	No
04/22/22	Room 107	CHS-BF-107	1.11	15	No
04/22/22	Hallway By Room 5B	CHS-BF-HW by 5B	1.01	15	No
04/22/22	Main Office	CHS-BF-Main Office	ND	15	No
04/22/22	Hallway by Room 104	CHS-BF-HW by 104	ND	15	No
04/22/22	Room 102A Nurse	CHS-BF-102A	1.95	15	No
04/22/22	Room 102A Nurse Sink	CHS-MO-102A	10.7	15	No
04/22/22	Room 102	CHS-BF-102A	ND	15	No
04/22/22	Hallway by Room 305	CHS-BF-HW by 305	ND	15	No
04/22/22	Room 306A	CHS-BF-306A	1.69	15	No
04/22/22	Hallway by 207A	CHS-BF-HW by 207	ND	15	No
04/22/22	Room 208	CHS-BF-208	ND	15	No
04/22/22	Field Blank	CHS-Blank	ND	15	No

### 3.0 SAMPLING AND ANALYSES

The following guidance documents were followed for all sampling:

1. N.J.A.C. 6A:26-12.4 Safe Drinking Water
2. The EPA's Revised Technical Guidance - "3Ts for Reduced Lead in Drinking Water in Schools"
3. Guidance Document from NJDEP Division of Water Supply and Geoscience – "Lead in Drinking Water: Guidance for Schools and Child Care Facilities Served by Public Water."

Sixteen (16) first draw samples, including one (1) field blank, were collected while at the facility. All first draw samples were analyzed.

All samples were labeled with a unique identification number and transported to EMSL Analytical for analysis for lead in drinking water using EPA Method 200.8.

### 4.0 CONCLUSION

- Based on laboratory analysis of the samples analyzed, **zero (0)** samples exceeded the action limit.
- No remedial action is required.
- All lead results were below the 15 µg/L New Jersey Action Level.

# **APPENDIX 1**

## **Chapel Hill Academy**

### **LABORATORY ANALYSIS WATER SAMPLING RESULTS WITH CHAIN OF CUSTODY**



**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

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

Attn:

**Michael Berta**  
**AERO Environmental Services, Inc**  
**275 Route 10 East**  
**Suite 220-306**  
**Succasunna, NJ 07876**

5/17/2022

Phone: (973) 920-9061

Fax: (973) 529-0335

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/28/2022. The results are tabulated on the attached data pages for the following client designated project:

**Chapel Hill Academy**

The reference number for these samples is EMSL Order #012206655. 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.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 858-4571

<http://www.EMSL.com>[EnvChemistry2@emsl.com](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012206655

CustomerID: aero50

CustomerPO:

ProjectID:

Attn: **Michael Berta**  
**AERO Environmental Services, Inc**  
**275 Route 10 East**  
**Suite 220-306**  
**Succasunna, NJ 07876**

Phone: (973) 920-9061  
 Fax: (973) 529-0335  
 Received: 4/27/2022 09:00 AM

Project: Chapel Hill Academy

**Analytical Results**

**Client Sample Description** CHS-bf-hw Basement by gym office **Collected:** 4/22/2022 2 8:05:50 AM **Lab ID:** 012206655-0001

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 12:53

**Client Sample Description** CHS-bf-cafeteria **Collected:** 4/22/2022 2 8:08:50 AM **Lab ID:** 012206655-0002

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:01

**Client Sample Description** CHS-ko-kitchen sink **Collected:** 4/22/2022 2 8:11:50 AM **Lab ID:** 012206655-0003

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	5.85	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:02

**Client Sample Description** CHS-bf-hw by 110 **Collected:** 4/22/2022 2 8:13:50 AM **Lab ID:** 012206655-0004

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:04

**Client Sample Description** CHS-bf-107 **Collected:** 4/22/2022 2 8:16:50 AM **Lab ID:** 012206655-0005

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	1.11	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:06

**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](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012206655

CustomerID: aero50

CustomerPO:

ProjectID:

Attn: **Michael Berta**  
**AERO Environmental Services, Inc**  
**275 Route 10 East**  
**Suite 220-306**  
**Succasunna, NJ 07876**

Phone: (973) 920-9061  
 Fax: (973) 529-0335  
 Received: 4/27/2022 09:00 AM

Project: Chapel Hill Academy

**Analytical Results**

**Client Sample Description** CHS-bf-hw by 5b **Collected:** 4/22/2022 2 8:20:50 AM **Lab ID:** 012206655-0006

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	1.01	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:07

**Client Sample Description** CHS-bf-main office **Collected:** 4/22/2022 2 8:22:50 AM **Lab ID:** 012206655-0007

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:09

**Client Sample Description** CHS-bf-hw by 104 **Collected:** 4/22/2022 2 8:25:50 AM **Lab ID:** 012206655-0008

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:10

**Client Sample Description** CHS-bf-102A **Collected:** 4/22/2022 2 8:28:50 AM **Lab ID:** 012206655-0009

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	1.95	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:12

**Client Sample Description** CHS-mo-102A **Collected:** 4/22/2022 2 8:30:50 AM **Lab ID:** 012206655-0010

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	10.7	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:13

**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](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012206655

CustomerID: aero50

CustomerPO:

ProjectID:

Attn: **Michael Berta**  
**AERO Environmental Services, Inc**  
**275 Route 10 East**  
**Suite 220-306**  
**Succasunna, NJ 07876**

Phone: (973) 920-9061  
Fax: (973) 529-0335  
Received: 4/27/2022 09:00 AM

Project: **Chapel Hill Academy****Analytical Results**

**Client Sample Description** CHS-BF-102 **Collected:** 4/22/2022 2 8:32:50 AM **Lab ID:** 012206655-0011

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:15

**Client Sample Description** CHS-Hw by 305 **Collected:** 4/22/2022 2 8:35:50 AM **Lab ID:** 012206655-0012

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:23

**Client Sample Description** CHS-Bf-306A **Collected:** 4/22/2022 2 8:37:50 AM **Lab ID:** 012206655-0013

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	1.69	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:24

**Client Sample Description** CHS-Bf-hw by 207 **Collected:** 4/22/2022 2 8:40:50 AM **Lab ID:** 012206655-0014

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:26

**Client Sample Description** CHS-Bf-208 **Collected:** 4/22/2022 2 8:42:50 AM **Lab ID:** 012206655-0015

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:27

**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](mailto:EnvChemistry2@emsl.com)

EMSL Order: 012206655

CustomerID: aero50

CustomerPO:

ProjectID:

Attn: **Michael Berta**  
**AERO Environmental Services, Inc**  
**275 Route 10 East**  
**Suite 220-306**  
**Succasunna, NJ 07876**

Phone: (973) 920-9061  
Fax: (973) 529-0335  
Received: 4/27/2022 09:00 AM

Project: **Chapel Hill Academy**

## Analytical Results

**Client Sample Description** CHS-Blank**Collected:** 4/22/2022  
2 8:46:50 AM**Lab ID:** 012206655-0016

Method	Parameter	Result	RL Units	Prep Date & Analyst	Analysis Date & Analyst
<b>METALS</b>					
200.8	Lead	ND	1.00 µg/L	5/12/2022 VD	5/13/2022 VD 13:29

**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



**EMSL ANALYTICAL, INC.**  
LABORATORY • PRODUCTS • TRAINING



G62F-PA33-47XX

012206655

**Client Information**  
AERO Environmental Services, Inc  
Succasunna, NJ

**Project Overview**

PO Number  
Project Name  
Project ID  
Client  
Special Instructions  
Bill To  
Report to Contact  
Report to Email

Chapel hill academy  
Chapel hill academy  
aero50  
Michael berta  
Mberta@aeroenvironmental.net

**Project Site**

Building Type  
Address 1  
Address 2  
City  
State  
Country

School or Day Care Center  
31 chapel hill road  
Lincoln park  
NJ  
US

**Testing Laboratory**

EMSL Analytical  
200 Route 130 North  
Cinnaminson, NJ

Sample ID	Sample Area	Date/Time Collected	Volume	Matrix / Test Method	TAT	pH	Preservative	Additional Tests	Notes
CHS-bf-hw Basement by gym office		Apr 22, 2022 8:05 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-bf-cafeteria		Apr 22, 2022 8:08 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-ko-kitchen sink		Apr 22, 2022 8:11 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-bf-hw by 110		Apr 22, 2022 8:13 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-bf-107		Apr 22, 2022 8:16 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-bf-hw by 5b		Apr 22, 2022 8:20 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-bf-main office		Apr 22, 2022 8:22 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-bf-hw by 104		Apr 22, 2022 8:25 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-bf-102A		Apr 22, 2022 8:28 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-mc-102A		Apr 22, 2022 8:30 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				
CHS-BF-102		Apr 22, 2022 8:32 AM	250 mL	Lead Drinking Water / C-Lead by ICP-MS   EPA 200.8	2 Week				