WHITMAN

Creating Solutions. Exceeding Expectations.

LEAD IN DRINKING WATER SAMPLING

FOR

530 W 7TH STREET
PLAINFIELD, NJ 07060

CRESTHAVEN ACADEMY
530 W 7TH STREET
PLAINFIELD, NJ 07060

PROJECT 24-01-13T

PERFORMED BY

WHITMAN

August 2, 2024

LEAD IN DRINKING WATER SAMPLING
530 W 7TH STREET
PLAINFIELD, NJ 07060

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LEAD IN DRINKING WATER SAMPLING
530 W 7TH STREET
PLAINFIELD, NJ 07060

1.0 PROJECT BACKGROUND

There are three ways that lead can contaminate drinking water in school facilities, the water source, the plumbing material, or the actual drinking water outlet fixture. Most sources of drinking water (e.g. ground and surface water) have no lead, or very low levels of lead (i.e., under 5 micrograms per liter [µg/l] or parts per billion [ppb]). Once the drinking water leaves the public water supply system or treatment plant, it comes into contact with piping and plumbing materials that may contain lead. Some lead may get into the water from the distribution system – the network of pipes that carry the water to homes, businesses, and schools in the community. Some communities have lead components in their distribution systems, such as lead joints in cast iron mains, service connections, pigtails, and goosenecks. Even though a public water supplier may deliver water that meets all Federal and State public health standards for lead, there may be lead in the drinking water because of the plumbing in the school facility. Interior plumbing, soldered joints, leaded brass fittings, and various drinking water outlets that contain lead materials are the primary contributors of lead in drinking water. It is also important to note that brass plumbing components contain lead. Since 1986, all plumbing materials must be “lead free”. Although there is an increased probability that a given plumbing component installed prior to 1986 could contain more lead than the newer components, the occurrence of lead in drinking water cannot be predicted solely based upon the age of the component or the school facility. The current law allows plumbing materials up to 0.25 percent lead to be labeled as “lead free”. However, prior to January 4, 2014, “lead free” allowed up to 8 percent lead content of the wetted surfaces of plumbing products including those labeled National Sanitation Foundation (NSF) certified. The best way to determine if a school might have elevated levels of lead in its drinking water is by testing the drinking water in that school. Testing facilitates an evaluation of the plumbing materials and helps target appropriate remedial action. It is a key step in understanding the problem, if there is one, and designing an appropriate response.

2.0 SAMPLING/SCREENING METHODOLOGY

2.1 Purpose

Lead in a water sample taken from an outlet can originate from the outlet fixture (e.g. the faucet, bubbler etc.), plumbing upstream of the outlet fixture (e.g. pipe, joints, valves, fittings etc.), or it can already be in the water that is entering the facility. Sample results are then compared to assist in determining the sources of lead contamination and the appropriate corrective measures. Prior to sampling, Whitman ensured that outlets deviating from normal usage were flushed 8-48 hours prior to sampling.

Initial first draw samples are taken from drinking water outlets and food preparation outlets (e.g., bubblers, kitchen faucets) in the facility. These samples determine the lead content of water sitting in water outlets that are used for drinking or cooking within the building(s).

2.2 NJDEP Limits

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

3.0 LEAD IN DRINKING WATER SAMPLING RESULTS DISCUSSION

The summary of lead sample results is presented below. The sampling conducted complied with NJDEP protocol and all samples were submitted to Integrated Analytical Laboratories (NJDEP NELAP #14751) under a completed Chain of Custody Form.

Location	Sample ID #	Date	Time	Lead Result µg/L	NJDEP Lead Limit - µg/L
NYU Hallway Water Fountain	S1	7/16/2024	7:49 am	<1.00	15
NYU Sink	S2	7/16/2024	7:54 am	<1.00	15
NYU Water Fountain	S3	7/16/2024	7:56 am	<1.00	15
Kean Sink	S4	7/16/2024	7:59 am	<1.00	15
Clemson Water Fountain	S5	7/16/2024	8:02 am	<1.00	15
Clemson Sink	S6	7/16/2024	8:04 am	1.36	15
Staff Workroom Sink	S7	7/16/2024	8:10 am	<1.00	15
Rutgers Hallway Water Fountain	S8	7/16/2024	8:13 am	<1.00	15
Rutgers Sink	S9	7/16/2024	8:15 am	1.31	15
Montclair Sink	S10	7/16/2024	8:18 am	1.92	15
Kitchen Prep Sink	S11	7/16/2024	8:25 am	<1.00	15
Stairwell 1C Water Fountain	S12	7/16/2024	8:28 am	<1.00	15
Nurse's Office Sink	S13	7/16/2024	8:30 am	<1.00	15
Stage Water Fountain	S14	7/16/2024	8:32 am	<1.00	15
Field Blank	FB	7/16/2024	8:35 am	<1.00	15

4.0 CONCLUSIONS

All lead results were below the 15 µg/L New Jersey Action Level except the results listed in red.

The immediate remedial action required after an exceedance of the lead action level is to remove the water outlet from service. The District should review all the data results and plumbing profiles before deciding on remediation measures. Depending on the data and the plumbing profile some remediation measures may not be efficient at reducing the lead levels, so it is important to evaluate these.

Follow-up flush Samples are required if the Initial first-draw sample result is greater than the lead action level.

5.0 LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS

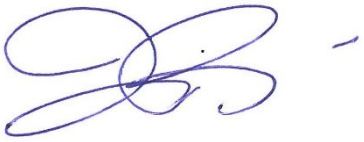
Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of Whitman's site visit, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which Whitman is unaware and has not had the opportunity to evaluate.

The conclusions presented in this report are professional opinions based solely upon Whitman's visual observations of accessible areas, testing data, and current regulatory requirements. These conclusions are intended exclusively for the purpose stated herein, at the sites indicated, and for the project indicated.

No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by our client, with the customary thoroughness and competence of our profession.

Feel free to contact me at 732-390-5858 with any questions or if further clarification is needed.

Sincerely,



John Beaupre
Senior Vice President

Attachments

ATTACHMENT 1

LEAD SAMPLE RESULTS

EMSL Analytical, Inc.

200 Route 130, Cinnaminson, NJ, 08077
Telephone: 856-858-4800 Fax:856-786-5974
EMSL-CIN-01

EMSL Order ID: 012423419
LIMS Reference ID: AC23419
EMSL Customer ID: WHIT53

Attention: John Beaupre
Whitman Companies, Inc. [WHIT53]
100 Franklin Square Dr.Suite 200
Somerset, NJ 08873
(732) 390-5858
jbeaupre@whitmanco.com

Project Name: Cresthaven Academy / 530 W. 7th St.

Customer PO: 24-01-13
EMSL Sales Rep: John LaFleur
Received: 07/17/2024 09:00
Reported: 07/31/2024 15:41

Analytical Results

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: S1		**Lims Reference ID:**		**AC23419-01**	**Matrix: Drinking Water**				**Sampled: 07/16/24 07:49:00**
Metals									
Lead	ND		1	1.00	µg/L	07/19/24 16:38	07/22/24 14:49	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S2		**Lims Reference ID:**		**AC23419-02**	**Matrix: Drinking Water**				**Sampled: 07/16/24 07:54:00**
Metals									
Lead	ND		1	1.00	µg/L	07/19/24 16:38	07/22/24 14:55	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S3		**Lims Reference ID:**		**AC23419-03**	**Matrix: Drinking Water**				**Sampled: 07/16/24 07:56:00**
Metals									
Lead	ND		1	1.00	µg/L	07/19/24 16:38	07/22/24 14:57	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S4		**Lims Reference ID:**		**AC23419-04**	**Matrix: Drinking Water**				**Sampled: 07/16/24 07:56:00**
Metals									
Lead	ND		1	1.00	µg/L	07/19/24 16:38	07/22/24 14:59	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S5		**Lims Reference ID:**		**AC23419-05**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:02:00**
Metals									
Lead	ND		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:01	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S6		**Lims Reference ID:**		**AC23419-06**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:04:00**
Metals									
Lead	1.36		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:06	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S7		**Lims Reference ID:**		**AC23419-07**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:10:00**
Metals									
Lead	ND		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:08	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S8		**Lims Reference ID:**		**AC23419-08**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:13:00**
Metals									
Lead	ND		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:10	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S9		**Lims Reference ID:**		**AC23419-09**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:15:00**
Metals									
Lead	1.31		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:12	LXK	EPA 200.8 (DA)/EPA 200.8

EMSL Analytical, Inc.

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100 Franklin Square Dr.Suite 200
Somerset, NJ 08873
(732) 390-5858
jbeaupre@whitmanco.com

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Analytical Results
(Continued)

Analyte	Result	Q	DF	RL	Units	Prepared Date/Time	Analyzed Date/Time	Analyst Initials	Prep /Analytical Method
Sample: S10			**Lims Reference ID:**	**AC23419-10**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:18:00**
Metals									
Lead	**1.92**		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:14	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S11			**Lims Reference ID:**	**AC23419-11**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:25:00**
Metals									
Lead	**ND**		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:16	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S12			**Lims Reference ID:**	**AC23419-12**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:28:00**
Metals									
Lead	**ND**		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:22	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S13			**Lims Reference ID:**	**AC23419-13**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:30:00**
Metals									
Lead	**ND**		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:24	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: S14			**Lims Reference ID:**	**AC23419-14**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:32:00**
Metals									
Lead	**ND**		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:29	LXK	EPA 200.8 (DA)/EPA 200.8
Sample: FB			**Lims Reference ID:**	**AC23419-15**	**Matrix: Drinking Water**				**Sampled: 07/16/24 08:35:00**
Metals									
Lead	**ND**		1	1.00	µg/L	07/19/24 16:38	07/22/24 15:31	LXK	EPA 200.8 (DA)/EPA 200.8

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Certified Analyses included in this Report

Analyte	Certifications
EPA 200.8 in Drinking Water	
Lead	NJDEP

List of Certifications

Code	Description	Number	Expires
MADEP	Massachusetts Department of Environmental Protection	M-NJ337	06/30/2024
California ELAP	California Water Boards	1877	06/30/2024
A2LA	A2LA Environmental Certificate	2845.01	07/31/2024
AIHA LAP	EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC-ELLAP Accredited	100194	01/01/2025
NJDEP	New Jersey Department of Environmental Protection	03036	06/30/2024
PADEP	Pennsylvania Department of Environmental Protection	68-00367	11/30/2024
NYSDOH	New York State Department of Health	10872	04/01/2025
CTDPH	Connecticut Department of Public Health	PH-0270	06/23/2024

Please see the specific Field of Testing (FOT) on www.emsl.com <http://www.emsl.com> for a complete listing of parameters for which EMSL is certified.

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Notes and Definitions

Item	Definition
(Dig)	For metals analysis, sample was digested.
[2C]	Reported from the second channel in dual column analysis.
DF	Dilution Factor
MDL	Method Detection Limit.
ND	Analyte was NOT DETECTED at or above the detection limit.
Q	Qualifier
RL	Reporting Limit
Wet	Sample is not dry weight corrected.

Measurement of uncertainty and any applicable definitions of method modifications are available upon request. Per EPA NLLAP policy, sample results are not blank corrected.

Owen McKenna Laboratory Manager or other approved signatory

Environmental Chemistry Chain of Custody

EMSL ANALYTICAL, INC.

EMSL Order Number / Lab Use Only: ACQ3419

EMSL Analytical
200 Rt. 130 N
Cinnaminson, NJ 08077
PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

Customer Information

Customer ID:
Company Name: Whitman
Contact Name: John Beaupre
Street Address: 100 Franklin Square Dr Suite 200
City, State, Zip: Somerset, NJ 08873 Country: US
Phone: (732) 320-5858
Email(s) for Report: jbeaupre@whitmanco.com

Billing Information

Billing ID:
Company Name:
Billing Contact: Same
Street Address:
City, State, Zip: Country:
Phone:
Email(s) for Invoice:

Purchase Order: 24-01-13

Project Name/No: Crestheaven Academy / 530 W. 7th St.

EMSL LIMS Project ID: (If applicable, EMSL will provide)

US State where samples collected: NJ

State of Connecticut (CT) must select project location: ☐ Commercial (Taxable) ☐ Residential (Non-Taxable)

Samples for Compliance? ☒ Yes ☐ No

If Yes, for NPDES? ☐ Yes ☒ No

Other (Specify)

PWS ID:

State Reporting Required? ☐ Yes ☒ No

Samples Collected by (Check One): ☐ EMSL ☒ CLIENT

Samples Received Chilled? ☐ Yes ☒ No

Sample(s) Temperature Upon Receipt: (LAB ONLY)

Sampled By Name: C. Graff

Sampled By Signature:

No. of Samples in Shipment: 15

Turn-Around-Time (TAT) Standard Turn-Around-Time: ☒ 2 Weeks

The following TAT's are subject to Lab approval. Call lab to confirm TAT before submittal: ☐ 1 Week ☐ 4 Days ☐ 3 Days ☐ 2 Days ☐ 1 Day

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (W=Water, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1 HCL, 2 HNO3, 3 H2SO4, 4 ICE, 5 Other – Describe below in Special Instructions)	List Test(s) Needed (Write in test below, then check on sample line:) Test 1: Lead	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
S1	☐	☒	7/16/24 7:49	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S2	☐	☒	7:54	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S3	☐	☒	7:56	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S4	☐	☒		W	2	☒	☐	☐	☐	☐	☐	☐	☐	

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

* Drinking Water *

Reporting Requirements: ☒ Results Only ☐ Results and QC ☐ Reduced Deliverables ☐ Hzresults EDD ☐ Excel ☐ Other (Describe Above)

Method of Shipment:

Relinquished by: Date/Time: 7/16/24 10:22

Relinquished by: Date/Time:

Sample Condition Upon Receipt:

Received by: Date/Time 7/16/2024 10:22am

Received by: Date/Time 7-16-24 w.ice 17.2°

AMcnally 7/17/24 9am Rec'd Pres.

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

AC23419

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (W=Water, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1 HCL, 2 HNO3, 3 H2SO4, 4 ICE, 5 Other – Describe in Special Instructions)	List Test(s) Needed (Write in test below, then check on sample line:) Test 1: Lead	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
S5	☐	☒	8:02	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S6	☐	☒	8:04	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S7	☐	☒	8:10	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S8	☐	☒	8:13	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S9	☐	☒	8:15	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S10	☐	☒	8:18	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S11	☐	☒	8:25	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S12	☐	☒	8:28	W	2	☒	☐	☐	☐	☐	☐	☐	☐	

Method of Shipment:

Sample Condition Upon Receipt:

Relinquished by:	Date/Time: 7/16/24 10:22	Received by:	Date/Time 7/16/24 1950
Relinquished by:	Date/Time:	Received by:	Date/Time 7/17/24 9am

Controlled Document - COC-07 Chemistry R11 02/26/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.

Environmental Chemistry Chain of Custody

EMSL ANALYTICAL, INC.

EMSL Order Number / Lab Use Only: AC23119

EMSL Analytical, Inc.
200 Rt. 130 N
Cinnaminson, NJ 08077

PHONE: (800) 220-3675
EMAIL: EnvChemistry2@EMSL.com

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Special Instructions and/or Regulatory Requirements (Sample Specifications, Processing Methods, Limits of Detection, etc.)

Client Sample ID	Comp	Grab	Date / Time Collected	Matrix (W=Water, S=Soil, A=Air, SL=Sludge, O=Other)	Preservative (1 HCL, 2 HNO3, 3 H2SO4, 4 ICE, 5 Other – Describe in Special Instructions)	List Test(s) Needed (Write in test below, then check on sample line:) Test 1: Lead	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
S13	☐	☒	8:30	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
S14	☐	☒	8:32	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
FB	☐	☒	8:35	W	2	☒	☐	☐	☐	☐	☐	☐	☐	
	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	
	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	
	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	
	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	
	☐	☐				☐	☐	☐	☐	☐	☐	☐	☐	

Method of Shipment:

Sample Condition Upon Receipt:

Relinquished by:	Date/Time: 7/16/24 10:22	Received by:	Date/Time 7-16-24 19:20
Relinquished by:	Date/Time:	Received by:	Date/Time 7/17/24 9 am

Controlled Document - COC-07 Chemistry R11 02/26/2021

☐ AGREE TO ELECTRONIC SIGNATURE (By checking, I consent to signing this Chain of Custody document by electronic signature.)

EMSL Analytical, Inc.'s Laboratory Terms and Conditions are incorporated into this Chain of Custody by reference in their entirety. Submission of samples to EMSL Analytical, Inc. constitutes acceptance and acknowledgment of all terms and conditions by Customer.