WHITMAN

Creating Solutions. Exceeding Expectations.

LEAD IN DRINKING WATER SAMPLING

FOR

WANDELL SCHOOL
97 EAST ALLENDALE ROAD
SADDLE RIVER, NJ 07458

PROJECT 22-03-24T

PERFORMED BY

WHITMAN

May 9, 2022

7 Pleasant Hill Road, Cranbury, NJ 08512
www.whitmanco.com

LEAD IN DRINKING WATER SAMPLING
WANDELL SCHOOL
SADDLE RIVER, NEW JERSEY

Table of Contents

1.0 PROJECT BACKGROUND 1

2.0 SAMPLING/SCREENING METHODOLOGY 2
- 2.1 Purpose 2
- 2.2 NJDEP Limits 2

3.0 LEAD IN DRINKING WATER SAMPLING RESULTS DISCUSSION 3

4.0 CONCLUSIONS 3

5.0 LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS 3

ATTACHMENTS

Attachment 1 – Lead Sampling Results
Attachment 2 – Floor Plan

LEAD IN DRINKING WATER SAMPLING
WANDELL SCHOOL
SADDLE RIVER, NEW JERSEY

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. Sampling conducted was in compliance with NJDEP protocol and all samples were submitted to Integrated Analytical Laboratories (NJDEP NELAP #14751) under a completed Chain of Custody Form.

Outlet ID #	Date	Time	Lead Result µg/L
WF-1	4/19/2022	8:12 am	2.88
WF-2	4/19/2022	8:14 am	Non-Detect
K1	4/19/2022	8:15 am	1.12
WF-3	4/19/2022	8:17 am	Non-Detect
TL	4/19/2022	8:18 am	1.24
WF-4	4/19/2022	8:20 am	Non-Detect
WF-5	4/19/2022	8:20 am	1.05
WF-7	4/19/2022	8:22 am	Non-Detect
WF-8	4/19/2022	8:25 am	2.34
WF-6	4/19/2022	8:26 am	1.18
NO	4/19/2022	8:28 am	1.88
BLANK	4/19/2022		Non-Detect

4.0 CONCLUSIONS

All lead results were below the 15 µg/L New Jersey Action Level.

5.0 LIMITATIONS, EXCEPTIONS AND ASSUMPTIONS

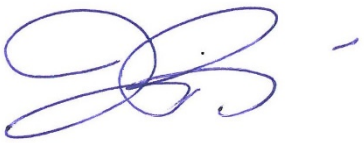
Opinions and recommendations presented in this report apply to site conditions and features as they existed at the time of Whitman's site visit, and those reasonably foreseeable. They cannot necessarily apply to conditions and features of which Whitman is unaware and has not had the opportunity to evaluate.

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 state 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 SAMPLING RESULTS

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (856) 303-2500 Fax: (856) 858-4571 Email: EnvChemistry2@emsl.com

Attn: **John Beaupre**
Whitman Companies, Inc.
100 Franklin Square Dr.
Suite 200
Somerset, NJ 08873
Phone: (732) 390-5858
Fax: (732) 390-9496

5/6/2022

The following analytical report covers the analysis performed on samples submitted to EMSL Analytical, Inc. on 4/20/2022. The results are tabulated on the attached data pages for the following client designated project:

Wondell School 22-03-24T

The reference number for these samples is EMSL Order #012206269. 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

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: 012206269
CustomerID: WHIT53
CustomerPO:
ProjectID:

Attn: **John Beaupre**
Whitman Companies, Inc.
100 Franklin Square Dr.
Suite 200
Somerset, NJ 08873

Phone: (732) 390-5858
Fax: (732) 390-9496
Received: 4/20/2022 09:00 AM

Project: **Wondell School 22-03-24T**

Analytical Results

Client Sample Description WF-1 ***Collected:*** 4/19/2022 8:12:00 AM ***Lab ID:*** *012206269-0001*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	2.88	1.00	µg/L	5/3/2022 VD	5/4/2022 08:56 VD

Client Sample Description WF-2 ***Collected:*** 4/19/2022 8:14:00 AM ***Lab ID:*** *012206269-0002*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	ND	1.00	µg/L	5/3/2022 VD	5/4/2022 09:01 VD

Client Sample Description K1 ***Collected:*** 4/19/2022 8:15:00 AM ***Lab ID:*** *012206269-0003*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.12	1.00	µg/L	5/3/2022 VD	5/4/2022 09:03 VD

Client Sample Description WF-3 ***Collected:*** 4/19/2022 8:17:00 AM ***Lab ID:*** *012206269-0004*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	ND	1.00	µg/L	5/3/2022 VD	5/4/2022 09:04 VD

Client Sample Description TL ***Collected:*** 4/19/2022 8:18:00 AM ***Lab ID:*** *012206269-0005*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.24	1.00	µg/L	5/3/2022 VD	5/4/2022 09:06 VD

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
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http://www.EMSL.com EnvChemistry2@emsl.com

EMSL Order: 012206269
CustomerID: WHIT53
CustomerPO:
ProjectID:

Attn: **John Beaupre**
Whitman Companies, Inc.
100 Franklin Square Dr.
Suite 200
Somerset, NJ 08873

Phone: (732) 390-5858
Fax: (732) 390-9496
Received: 4/20/2022 09:00 AM

Project: **Wondell School 22-03-24T**

Analytical Results

Client Sample Description WF-4 ***Collected:*** 4/19/2022 8:20:00 AM ***Lab ID:*** *012206269-0006*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	ND	1.00	µg/L	5/3/2022 VD	5/4/2022 09:07 VD

Client Sample Description WF-5 ***Collected:*** 4/19/2022 8:20:00 AM ***Lab ID:*** *012206269-0007*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.05	1.00	µg/L	5/3/2022 VD	5/4/2022 09:09 VD

Client Sample Description WF-7 ***Collected:*** 4/19/2022 8:22:00 AM ***Lab ID:*** *012206269-0008*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	ND	1.00	µg/L	5/3/2022 VD	5/4/2022 09:13 VD

Client Sample Description WF-8 ***Collected:*** 4/19/2022 8:25:00 AM ***Lab ID:*** *012206269-0009*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	2.34	1.00	µg/L	5/3/2022 VD	5/4/2022 09:15 VD

Client Sample Description WF-6 ***Collected:*** 4/19/2022 8:26:00 AM ***Lab ID:*** *012206269-0010*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.18	1.00	µg/L	5/3/2022 VD	5/4/2022 09:20 VD

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: 012206269
CustomerID: WHIT53
CustomerPO:
ProjectID:

Attn: **John Beaupre**
Whitman Companies, Inc.
100 Franklin Square Dr.
Suite 200
Somerset, NJ 08873

Phone: (732) 390-5858
Fax: (732) 390-9496
Received: 4/20/2022 09:00 AM

Project: **Wondell School 22-03-24T**

Analytical Results

Client Sample Description NO ***Collected:*** 4/19/2022 8:28:00 AM ***Lab ID:*** *012206269-0011*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	1.88	1.00	µg/L	5/3/2022 VD	5/4/2022 09:21 VD

Client Sample Description WF-9 ***Collected:*** 4/19/2022 8:30:00 AM ***Lab ID:*** *012206269-0012*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	ND	1.00	µg/L	5/3/2022 VD	5/4/2022 09:23 VD

Client Sample Description BLANK ***Collected:*** 4/19/2022 ***Lab ID:*** *012206269-0013*

Method	*Parameter*	*Result*	*RL*	*Units*	*Prep Date & Analyst*	*Analysis Date & Analyst*
METALS						
200.8	Lead	ND	1.00	µg/L	5/3/2022 VD	5/4/2022 09:24 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

OrderID: 012206269

EMSL ANALYTICAL, INC.

Environmental Chemistry Chain of Custody

EMSL Order Number / Lab Use Only

012206269

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

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

Customer Information		Billing Information	
Customer ID:		Billing ID:	
Company Name:	Whitman	Company Name:	Same as Customer
Contact Name:	John Beaupre	Billing Contact:	
Street Address:	100 Franklin Square Drive	Street Address:	
City, State, Zip:	Somerset, NJ 08873 Country: US	City, State, Zip:	Country:
Phone:	(484)274-6863	Phone:	
Email(s) for Report:	jbeaupre@whitmanco.com	Email(s) for Invoice:	

Project Name/No: Wandell School 22-03-24T — Purchase Order:

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: J. Knoll — Sampled By Signature: Jason Knoll — No. of Samples in Shipment: 12

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)	Test 1: Lead	Test 2:	Test 3:	Test 4:	Test 5:	Test 6:	Test 7:	Test 8:	Comments
1	WF-1	☐	☑	4/19/22 0812	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
2	WF-2	☐	☐	4/19/22 0814	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
3	K1	☐	☐	4/19/22 0815	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
4	WF-3	☐	☐	4/19/22 0817	W	2	☑	☐	☐	☐	☐	☐	☐	☐	

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

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

Method of Shipment: — Sample Condition Upon Receipt:

Relinquished by: Jason Knoll [signature]	Date/Time: 4/19/22 10:53	Received by: [signature] (WI)	Date/Time 4.19.22 @ 1053 AM
Relinquished by:	Date/Time:	Received by: [signature] 4/19/22	Date/Time 7:40pm

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.) EKlym 4/20/22 9am

Re-presented EZ

Environmental Chemistry Chain of Custody

EMSL ANALYTICAL, INC.

EMSL Order Number / Lab Use Only

012206269

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
5	TL	☐	☑	4/19/22 0818	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
6	WF-4	☐	☑	4/19/22 0828	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
7	WF-5	☐	☑	4/19/22 0820	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
8	WF-7	☐	☑	4/19/22 0822	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
9	WF-8	☐	☑	4/19/22 0825	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
10	WF-6	☐	☑	4/19/22 0826	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
11	NO	☐	☑	4/19/22 0828	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
12	WF-9	☐	☑	4/19/22 0830	W	2	☑	☐	☐	☐	☐	☐	☐	☐	
13	Blank														

Method of Shipment:		Sample Condition Upon Receipt:	
Relinquished by:	Date/Time:	Received by:	Date/Time
Relinquished by:	Date/Time:	Received by:	Date/Time

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.

Page 2 Of 2

OrderID: 012206269

ATTACHMENT 2

FLOOR PLAN

Kitchen
Outlet
K1
WF-1
WF-2
DF
DF
Outlet
NO
WF-3
TL
DF
Outlet
WF-9
DF
WF-4/WF-5
WF-8
WF-7
WF-6
DF
DF
DF