

Creating Solutions. Exceeding Expectations.

LEAD IN DRINKING WATER SAMPLING

FOR

COMMUNITY CHARTER SCHOOL OF PATERSON 75 SPRUCE STREET PATERSON, NJ 07501

PROJECT 22-03-05T

8 MORRIS AVENUE

PERFORMED BY

WHITMAN

May 9, 2022

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

LEAD IN DRINKING WATER SAMPLING COMMUNITY CHARTER SCHOOL OF PATERSON PATERSON, NEW JERSEY

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ATTACHMENTS

Attachment 1 – Lead Sampling Results



LEAD IN DRINKING WATER SAMPLING COMMUNITY CHARTER SCHOOL OF PATERSON PATERSON, 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 <u>SAMPLING/SCREENING METHODOLOGY</u>

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 μ g/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 #	Sample #	Date	Time	Lead Result µg/L
KITCHEN	S1	4/19/2022	7:55 am	Non-Detect
CAFÉ NEXT TO FRIDGE	S2	4/19/2022	7:57 am	Non-Detect
HW R106	S3	4/19/2022	8:00 am	Non-Detect
HW R503 RIGHT	S4	4/19/2022	8:04 am	Non-Detect
HW R503 LEFT	S5	4/19/2022	8:05 am	Non-Detect
HW R404 RIGHT	S6	4/19/2022	8:10 am	Non-Detect
HW R404 LEFT	S7	4/19/2022	8:11 am	Non-Detect
HW R304 LEFT	S8	4/19/2022	8:14 am	Non-Detect
HW R304 RIGHT	S9	4/19/2022	8:15 am	Non-Detect
NURSE'S OFFICE 3RD FLOOR	S10	4/19/2022	8:18 am	Non-Detect
HW R204 LEFT	S11	4/19/2022	8:21 am	Non-Detect
HW R204 RIGHT	S12	4/19/2022	8:22 am	Non-Detect
GYM HW JANITOR'S CLOSET LEFT	S13	4/19/2022	8:27 am	Non-Detect
GYM HW JANITOR'S CLOSET RIGHT	S14	4/19/2022	8:28 am	Non-Detect
BLANK		4/19/2022		Non-Detect

4.0 CONCLUSIONS

All lead results were below the 15 μ g/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

LEAD SAMPLING RESULTS

ATTACHMENT 1



Attn: John Beaupre Whitman Compa

Whitman Companies, Inc. 100 Franklin Square Dr. Suite 200 Somerset, NJ 08873

Phone: (732) 390-5858 Fax: (732) 390-9496

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:

Community Charter School of Paterson- 8 morins Ave.

The reference number for these samples is EMSL Order #012206257. 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:

MM M

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.

5/6/2022

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Proiect:	Community	Charter School of Paterson- 8	morins Ave.				

Client Sample De	escription S1		Collected:	4/19/2022 7:55:00 AM		ıb ID:	012206257-000	01
Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 00:31	VD
Client Sample De	escription S2		Collected:	4/19/2022 7:57:00 AM		nb ID:	012206257-000)2
Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 00:33	VD
Client Sample De	escription S3		Collected:	4/19/2022 8:00:00 AM		ib ID:	012206257-000)3
Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 00:35	VD
Client Sample De	escription S4		Collected:	4/19/2022 8:04:00 AM		ıb ID:	012206257-000)4
Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 00:37	VD
Client Sample De	escription S5		Collected:	4/19/2022 8:05:00 AM		ib ID:	012206257-000)5
Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
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Client Sample De	scription S6		Collected:	4/19/2022 8:10:00 AM		b ID:	012206257-000	06
Method	Parameter	Result	RL Unit	s	Prej Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 00:42	VD
Client Sample De	scription S7		Collected:	4/19/2022 8:11:00 AM		b ID:	012206257-000)7
Method	Parameter	Result	RL Unit	'S	Prej Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 00:48	VD
Client Sample De	scription S8		Collected:	4/19/2022 8:14:00 AM		b ID:	012206257-000)8
Method	Parameter	Result	RL Unit	's	Prej Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 00:50	VD
Client Sample De	scription S9		Collected:	4/19/2022 8:15:00 AM		b ID:	012206257-000)9
Method	Parameter	Result	RL Unit	's	Prej Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 00:56	VD
Client Sample De	scription S10		Collected:	4/19/2022 8:18:00 AM		b ID:	012206257-001	10
Method	Parameter	Result	RL Unit	Ś	Prej Date & A		Analysis Date & Analy	/st
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Client Sample De	escription S11		Collected:	4/19/2022	La	b ID:	012206257-001	11
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Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 01:00	VD
Client Sample De	escription S12		Collected:	4/19/2022 8:22:00 AM		b ID:	012206257-001	12
Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 01:02	VD
Client Sample De	escription S13		Collected:	4/19/2022 8:27:00 AM		b ID:	012206257-001	13
Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 01:04	VD
Client Sample De	escription S14		Collected:	4/19/2022 8:28:00 AM		b ID:	012206257-001	14
Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 01:06	VD
Client Sample De	escription TRIP BLANK		Collected:	4/19/2022 8:33:00 AM		b ID:	012206257-001	15
Method	Parameter	Result	RL Unit	s	Pre Date & A		Analysis Date & Analy	/st
METALS								
200.8	Lead	ND	1.00 µg/L		5/5/2022	VD	5/6/2022 01:08	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

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