



LEAD IN DRINKING WATER TESTING REPORT

Conducted for:

Glen Rock Board of Education
620 Harristown Road
Glen Rock, New Jersey 07452

Conducted at:

Richard E. Byrd School
640 Doremus Avenue
Glen Rock, New Jersey 07452

Submitted by:

McCabe Environmental Services, L.L.C.
464 Valley Brook Avenue
Lyndhurst, New Jersey 07071

REPORT DATE: March 29, 2018

MES PROJECT NO.: 18-03481

Prepared by:

Thomas Halter
Environmental Scientist

Signed for the Company by:

John H. Chiaviello
Vice President

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1.0 INTRODUCTION

McCabe Environmental Services, L.L.C. (McCabe) was retained by Glen Rock Board of Education to conduct lead in drinking water testing at Richard E. Byrd School located at 640 Doremus Avenue, Glen Rock, New Jersey 07452.

The project information is as follows:

<u>Client Name:</u>	Glen Rock Board of Education
<u>Contact Person:</u>	Ms. Sandy Marinos
<u>Project Name:</u>	Richard E. Byrd School- Lead in Drinking Water Sampling
<u>Project Location:</u>	640 Doremus Avenue Glen Rock, New Jersey 07452
<u>Date(s) of Service:</u>	March 23, 2018
<u>McCabe Personnel:</u>	Gary Clare & Thomas Halter

2.0 SCOPE OF WORK

Drinking water testing was performed at Richard E. Byrd School located at 640 Doremus Avenue, Glen Rock, New Jersey 07452 on March 23, 2018. The purpose of the testing was to determine if the building's plumbing was having an adverse impact on water quality, specifically with regard to lead concentrations after the installation of Elkay WaterSentry VII filters. One (1) sample was collected from the fountain that had this installation.

3.0 PROCEDURES

After determining which outlets would be sampled, McCabe personnel collected a "first draw" sample at each location. A "first draw" is the initial water that is first to come out of the tap after a period of inactivity. All samples were collected into 250 mL sterile bottles, labeled with a sample identification, and analyzed in accordance with EPA approved methods to determine the level of lead in drinking water. Samples were analyzed by an accredited laboratory.

The U.S. Environmental Protection Agency (EPA) has established National Primary Drinking Water Regulations (NPDWR) that set mandatory water quality standards for drinking water contaminants. These are enforceable standards called "maximum contaminant levels" or "MCL", which are established to protect the public against consumption of drinking water contaminants that present a risk to human health. An MCL is the maximum allowable amount of a contaminant in drinking water which is delivered to the consumer.

The EPA has established the Lead and Copper Rule that sets standards for state and public water systems. This rule has set an MCL for lead at 15 parts per billion (ppb) for a one liter sample. However, the EPA also established the Lead in Drinking Water at Schools and Child Care Facilities in which the EPA recommends an MCL of 20 ppb for a 250 milliliter first draw sample. In order to be more stringent, for our report purposes we have compared all results to both the 15 ppb and the 20 ppb standards.

4.0 TABLE OF SAMPLE RESULTS

The following table presents all sample results in order of sample identification:

Sample ID	Sample Location	Lead Result (ppb)	Exceeds (MCL 15 ppb)	Exceeds (MCL 20 ppb)
B-01	Hallway Outside Room 208	< 0.5	PASS	PASS

5.0 DISCUSSION AND CONCLUSION

A total of one (1) sample was collected from Richard E. Byrd School. The sample was found to be less than the EPA Lead in Drinking Water at Schools and Child Care Facilities standard of 20 ppb, as well as the EPA Lead and Copper Rule standard of 15 ppb.

In addition, McCabe Environmental recommends annual drinking water sampling to ensure that the building's plumbing is not having an adverse impact on water quality.

APPENDIX A

**LABORATORY CERTIFICATES OF ANALYSIS
&
SAMPLE CHAIN OF CUSTODY FORMS**



Wednesday, March 28, 2018

Attn: Janet Leone
McCabe Environmental Services, LLC
464 Valley Brook Avenue
Lyndhurst, New Jersey 07071

Project ID: 18-03481
Sample ID#s: CA07742

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
 Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 28, 2018

FOR: Attn: Janet Leone
 McCabe Environmental Services, LLC
 464 Valley Brook Avenue
 Lyndhurst, New Jersey 07071

Sample Information

Matrix: DRINKING WATER
 Location Code: MCCABE
 Rush Request: Standard
 P.O.#:

Custody Information

Collected by:
 Received by: SW
 Analyzed by: see "By" below

Date

03/23/18
 03/23/18

Time

7:45
 17:02

Laboratory Data

SDG ID: GCA07742
 Phoenix ID: CA07742

Project ID: 18-03481
 Client ID: B-01

Parameter	Result	RL/ PQL	DIL	Units	AL	MCL	MCLG	Date/Time	By	Reference
Lead	< 0.0005	0.0005	1	mg/L	0.015			03/27/18	RS	E200.9-2.2
Total Metal Digestion	Completed							03/26/18	AG	E200.9

RL/PQL=Reporting/Practical Quantitation Level DIL=Dilution (analysis required diluting to evaluate) ND=Not Detected
 BRL=Below Reporting Level (less than the reporting level, the lowest amount the laboratory can detect and report.)
 AL = Action Level MCL = Maximum Contaminant Level MCLG = Maximum Contaminant Level Goal

Comments:

Maximum Contaminant Level (MCL): 40 CFR Part 141. The highest level of a contaminant that is allowed in drinking water. MCLs are enforceable standards.

Action Level (AL): 40 CFR Part 141.80.

Secondary DW Maximum Contaminant Level Goal (MCLG): (Lower of): 40 CFR Part 141; 40 CFR Part 143. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are non-enforceable public health goals.

If there are any questions regarding this data, please call Phoenix Client Services.
 This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 28, 2018

Reviewed and Released by: Rashmi Makol, Project Manager



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QA/QC Report

March 28, 2018


QA/QC Data

SDG I.D.: GCA07742

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 424027 (mg/L), QC Sample No: CA07734 (CA07742)													
Lead	BRL	0.0005	<0.0005	<0.0005	NC	109			105			85 - 115	20
Comment: Additional: LCS acceptance range is 85-115% MS acceptance range 75-125%.													

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference


 Phyllis Shiller, Laboratory Director
 March 28, 2018

Wednesday, March 28, 2018

Criteria: None

State: NJ

Sample Criteria Exceedances Report

GCA07742 - MCCABE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



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Analysis Comments

March 28, 2018

SDG I.D.: GCA07742

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

2.1WCIP

MCCABE ENVIRONMENTAL SERVICES, L.L.C.
 464 VALLEY BROOK AVENUE LYNDDURST, NJ 07071 • PHONE: (201)438-4839 FAX: (201)438-1798

LEAD in DRINKING WATER
 CHAIN-OF-CUSTODY FORM

CLIENT NAME: Glen Rock Board of Education
 620 Harrigtown Road, Glen Rock, NJ 07452

SITE ADDRESS:
 Richard E. Byrd School
 640 Doremus Ave, Glen Rock, NJ 07452

FIELD INSPECTOR'S NAME: Thomas Halter, Gary Clare

MES PROJECT #: 18-03481 SAMPLE DATE: March 23, 2018

TURNAROUND TIME REQUESTED: _____

Matrix	SAMPLE ID	SAMPLE LOCATION	TIME COLLECTED	ANALYSIS REQUESTED
DW	B-01	Hallway Outside Room 208 OTTU2	7:15	LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8
DW				LEAD - 200.8

Relinquished by (Print) Thomas Halter
 Signature: *[Signature]* Date: 3/23/18 Time: 110

Received by (Print) Gary Clare
 Signature: *[Signature]*

Relinquished by (Print) Gary Clare
 Signature: *[Signature]* Date: 3/23/18 Time: 1:28

Received by (Print) Brad Caffery
 Signature: *[Signature]* Date: 3-23-18 Time: 125

Laboratory Analysis Performed by (Analyst Signature, Laboratory Name & Location): Phoenix Environmental Laboratories

[Signature]
 Temp 34

1700 TITUM