



RK Occupational & Environmental Analysis Inc.

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Mold Assessment
and Remediation

September 20, 2022

Health/Safety and
Environmental
Regulatory
Compliance

Mr. Thomas Gaveglione
Supervisor of Buildings and Grounds
Hanover Township Board of Education
61 Highland Avenue
Whippany, NJ 07981

Right-To-Know

re: **Water Sampling for Compliance with N.J.A.C. 6A:26-12.4
Lead in Drinking Water: Water Re-Sampling at Memorial School
Addendum 2**

OSHA/EPA/DOT
Training Programs

Asbestos and Lead
Management

Dear Mr. Gaveglione,

Industrial Hygiene/
OSHA Compliance

This follows our previous reports on the subject and covers the follow-up water sampling that was conducted on September 02, 2022. As you know, one of the samples that were collected on August 18, 2022 still showed Lead content above the 15 ppb standard for drinking water, even after the sink faucet was replaced.

Indoor Air Quality

Two water samples were collected from the Junior School Kitchen right side sink; as before a 'First-Draw' water sample was collected along with a second 'Flushed' water sample.

Underground/
Aboveground
Storage Tanks

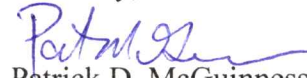
Since the 1st draw water sample showed acceptable results (2.0 ppb) for Lead, the laboratory was instructed not to analyze the flushed sample. This shows that the sink can be safely returned to unrestricted service.

Environmental
Site Assessment

If you have any questions, please don't hesitate to call us.

Hazardous/
Medical Waste
Management

Sincerely,


Patrick D. McGuinness, MS, P.E.
Vice President

Environmental
Audits

Attachment

(file ... \Proposal\WaterTest\HanoverTwp addendum2)

Expert Witness/
Litigation Support

Customized
Software

Addendum #2 to Sampling Report - Lead in Drinking Water
Hanover Township School

1. Background and Sampling Summary

As noted in prior reports, the initial water sampling was conducted on April 13, 2022. A total of 39 water samples were collected and 4 sample locations exceeded the 15 parts per billion (ppb) Drinking Water Standard. The faucets on these 4 water taps were replaced and then re-sampled on August 18, 2022. Three of the four "First-Draw" water samples showed acceptable Lead results on the re-test as compared to the 15 ppb standard.

The 4th sample with the high Lead results was collected from the right side sink in the Memorial Junior School Kitchen. After the water line was flushed again and aerator screens were checked for line sediment, a second re-test of the tap was performed on September 02, 2022. As noted below, the 1st-Draw water sample showed acceptable results

2. Water Sampling Results and Discussion

The re-sampling logs are attached and results are shown on the table below. The laboratory certificate of analysis is also appended to this report.


Sample ID	Tap No.	Sample Type	Location	Sample Time	Lead Results (µg/L)
RK-090222-01	34	1 st Draw	Kitchen	09:05	2.00
RK-090222-02	34	Flushed	Kitchen	09:08	Not Analyzed

3. Conclusions and Recommendations

As noted in the prior report, the re-sampling procedure uses a two-step sampling procedure. As during the initial round of sampling a "1st-Draw" water sample was collected at each outlet after the water was allowed to sit overnight in the piping at least 8 hours prior to collecting the water sample. A contingent "Flushed" water sample was then collected after the water tap was run for about 2 minutes.

Sampling results shown in the table above are acceptable for the first draw water and the water tap can be returned to service. In this case, the analysis of the flushed sample was not performed since the 1st draw sample showed acceptable results.

Report prepared by:


Patrick D. McGuinness, MS, P.E.
Vice President

Water Sampling Log - ReTest #1

Name of Building Building Owner Hanover township Bd of Educ (see below) Date Collected (see below)
 Sample Collected by (see below)

Sample No.	Tap No.	Sample Type	Type of Outlet	Sampled by	Time	Results (µg/L)	
						Cu	Pb
Memorial Junior School: August 18, 2022							
RK-081822-01	33	1st	Sink	P McGuinness	09:18	X	1.00
RK-081822-01F	33	FL	Sink	P McGuinness	09:22	X	--
RK-081822-02	34	1st	Sink	P McGuinness	09:19	X	41.5
RK-081822-02F	34	FL	Sink	P McGuinness	09:24	X	< 1.00
Memorial Junior School: September 02, 2022							
RK-090222-01	34	1st	Sink	A Simon	09:05	X	2.00
RK-090222-02	34	FL	Sink	A Simon	09:08	X	--
Bee Meadow Elementary School: August 18, 2022							
RK-081822-03	1	1st	Sink	P McGuinness	09:41	X	1.80
RK-081822-03F	4	FL	Sink	P McGuinness	09:43	X	--
RK-081822-04	5	1st	Sink	P McGuinness	09:48	X	3.70
RK-081822-04F	5	FL	Sink	P McGuinness	09:51	X	--

Sample Type: **1st:** First Draw sample collected after water sat in pipe between 8 and 18 hours
FL: Water flushed through tap for at least 2 minutes
 <: means Not Detected at or above the Reliability Detection Limit (RDL) of 0.0010 mg/L for Lead.

CERTIFICATE OF ANALYSIS

Client: R. K. Environmental Consultants
401 St. James Ave.
Phillipsburg NJ 08865

Client: RKE630

Report Date: 9/19/2022
Report No.: 668965 - Lead Water
Project: Hanover Twp Bd of Educ
Project No.: 22-020

LEAD WATER SAMPLE ANALYSIS SUMMARY

Lab No.:7494181
Client No.:090222-01

Location:Kitchen - Right Sink
* Sample acidified to pH <2.


Result(ppb):2.00

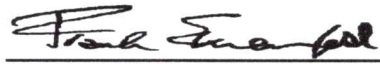
Lab No.:7494182
Client No.:09-222-02

Location:Kitchen - Right Sink
* Sample acidified to pH <2.

Result(ppb):Sample Not Analyzed

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/14/2022
Date Analyzed: 09/19/2022
Signature: 
Analyst: Chad Shaffer

Approved By: 
Frank E. Ehrenfeld, III
Laboratory Director