

Lead/Copper Water Sampling Report

For

Berkley School District

April 2021

Berkley School District

Lead/Copper Water Sampling Report

Background:

In March of 2021, Jon Barth, Custodial & Operations Facilitator for Berkley School District contacted Nova Environmental, Inc. and requested that lead and copper water samples be collected within nine district buildings. Since this water testing is for screening purposes, it was determined that 6 samples be collected within each building. The location of the testing was from interior taps from which water is typically drawn for consumption. This would include, but is not limited to the Kitchen within each building.

Sampling Methodology:

On March 13, 2021, environmental consultants from Nova Environmental, Inc. conducted the water sample collection throughout the District. The water samples were collected “first draw” which means that the tap was not flushed prior to sample collection. This first draw method is stipulated within the Environmental Protection Agency and Michigan Department of Environmental Quality (MDEQ) sampling guidelines for lead and copper.

The water samples were collected on the weekend and/or early morning in order to ensure that the faucet has sat idle for a minimum of six hours prior to sample collection.

Subsequent to the collection, the sample bottles were hand delivered to the Brighton Analytical, LLC. The type of analysis performed on the water samples was Inductively Coupled Plasma – Mass Spectrometry (ICP – MS). One sample in Classroom 103 was scheduled for resampling based on the results of the first sampling.

Sample Results:

The action level established by the Environmental Protection Agency (EPA) for lead in drinking water is 15 micrograms per liter (ug/L) and 1300 micrograms per liter (ug/L) for copper.

On April 13, 2021, an environmental consultant from Nova Environmental, Inc. conducted the water sample collection from Classroom 103 at Anderson Middle School. The results of the sample collected and analyzed, was below the action level for lead and copper.

Limitations:

The intent of this sampling was to conduct a simple, cursory screening for lead/copper in drinking water within Berkley School District. Therefore, this report was not intended to or should not be construed to provide any type of regulatory compliance. Furthermore, the sampling from two to four taps within a building does not imply a thorough or even representative indication of lead/copper in the drinking water, but is intended to simply provide a snapshot of lead/copper levels at the specific locations tested. In order to clarify, Nova Environmental, Inc. provides the following disclaimers:

- The determination of what taps to test were discussed with District staff and were based on those most likely to be used for consumption, which usually included one sample within the Kitchen;
- The intent of this sampling was not to provide any means or implication of regulatory compliance;
- The only way to ensure an accurate indication of potential lead/copper in water presence within a given building is to test each tap on a periodic basis.

Laboratory Statement of Qualifications:

Brighton Analytical, LLC. is a fully certified laboratory for the analysis of lead and copper in drinking water in the State of Michigan. Included within this report is a Statement of Qualifications for lead and copper analysis along with a copy of their Michigan certification.

Anderson Middle School

Sample ID	Location	Lead	Copper
001	Classroom 103	2 ug/L	330 ug/L

Federal Action Level for Drinking Water: Lead 15 ug/L
Copper 1300 ug/L
ug/L = microgram/Liter

ND = None Detected at Reporting Limit

April 16, 2021

Nova Environmental
5300 Plymouth Rd.
Ann Arbor, MI 48105

Subject: Berkley School District
CI0136/*131

Dear Ms. Bennett :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 04/14/2021 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 74064 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,
Brighton Analytical, L.L.C.



Brighton Analytical LLC
 2105 Pless Drive
 Brighton, Michigan 48114
 Phone: (810)229-7575 (810)229-8650
 e-mail: bai-brighton@sbcglobal.net
 EGLE Certified #9404
 NELAC Accredited #176507

Sample Date/Time: 04/13/2021 06:58
 Submit Date/Time: 04/14/2021 16:30
 Report Date: 04/16/2021

Nova Environmental
 5300 Plymouth Rd.
 Ann Arbor, MI 48105

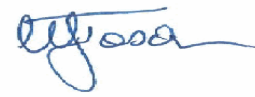
BA Project # **74064** Project Name: **Berkley School District**
 BA Sample ID **CO05155** Project Number: **CI0136/*131**
 Sample ID: **001 Anderson M.S.**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
Drinking Water Metal Analysis							
Total Copper (Drinking Water)	330	ug/L	20	1300	EPA 200.8 rev5.4	02:23	04/16/2021
Total Lead (Drinking Water)	2	ug/L	1	15	EPA 200.8 rev5.4	02:23	04/16/2021

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

MCL = Maximum contaminant Levels.

Analysis not specifically identified as drinking water are for non-regulatory compliance purposes.

Released by 
 Date 4/16/2021



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY
CONTROL

ICP-MS

METHOD 200.8/6020

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 4/15/2021, 4/16/2021 Standard ID: 031921 H2O Batch: 4/15/2021 B10
 Matrix Spike Lab ID: CO05155 Matrix: Total Analyst: MH

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/L)	Matrix Spike Dup (ug/L)	RPD (%)	Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/L)	Method Blk (ug/L)	LCS-Method STD (%)	Ind. Std. (%)
Copper	1286	1262	1.9	1000	95.9	93.5	327	<20	103.6	101.7
Lead	996	978	1.8	1000	99.4	97.6	2	<1	105.9	99.7

* Matrix spike precision range +/- 20% RPD

** Matrix spike accuracy range +/- 20% recovery

*** LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: _____