

Evaluation of Lead in Drinking Water at McNichols Plaza Elementary

1111 South Irving Avenue
Scranton, PA 18505

Prepared for:

SCRANTON SCHOOL DISTRICT
425 N. Washington Ave.
Scranton, PA 18503

Prepared by:



GAI Job No.: SSD.19_673

Sample Date: December 27, 2019
Report Date: January 20, 2020

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INTRODUCTION

Under the 2018 Act 39 Pennsylvania School Code (Section 742) beginning in the 2018-2019 school year and every year thereafter, School Districts in Pennsylvania shall either analyze their drinking water for lead or conduct public meetings to discuss why testing was not conducted.

BACKGROUND

Lead is a naturally occurring heavy metal that is toxic when ingested or absorbed into the body. Children in particular are more susceptible to lead poisoning because they absorb more lead into their systems as they grow.

According to the United States Environmental Protection Agency (EPA), “even low levels of lead in the blood of children can result in:

- Behavior and learning problems
- Lower IQ and Hyperactivity
- Slowed growth
- Hearing problems
- Anemia

In rare cases, ingestion of lead can cause seizures, coma and even death” (Available at www.epa.gov/lead/learn-about-lead, April 4, 2016). Although, there are several ways that lead poisoning can occur in children, this report evaluates potential lead exposure only from drinking water within the **McNichols Plaza Elementary**.

There are basically two (2) ways in which lead can enter drinking water. The first and least common route would be lead that is present in the source water. This route is extremely rare and would only be addressed if high levels of lead were discovered in the secondary flushed samples.

The second route for lead to enter drinking water (and most common), would be lead that has been leached out of the plumbing material as water passes through it. Although lead is no longer used in pipes or solder, it can still be found in older fittings, fixtures, and plumbing components. The ability of water to leach chemicals from piping and plumbing materials is known as corrosivity. Therefore, the more corrosive the water, the more potential there is for lead to be leached out of the plumbing material. Additionally, as the length of time the water is in contact with the plumbing material increases, so does the potential for the leaching of lead.

SAMPLING PROCEDURES

Both the Environmental Protection Agency [EPA] and the Pennsylvania Department of Environmental Protection Agency [PADEP] have programs to evaluate and reduce the concentration of lead in drinking water. The Federal (EPA) Program, the **3Ts for Reducing Lead in Drinking Water**, was developed for schools and daycare centers. The State (PADEP) Program is directed toward public drinking water suppliers (*Lead Copper Rule, 1991*). The programs differ slightly in sample quantity. However, because EPA's program is geared specifically toward schools, EPA's 3Ts sampling protocols were utilized.

A lead sampling plan was developed by Guzek Associates, Inc. [GAI] with the assistance of school maintenance staff in accordance with **EPA's 3Ts for Reducing Lead in Drinking Water Toolkit** (available at: www.epa.gov/ground-water-and-drinking-water/3ts-reducing-lead-drinking-water-toolkit). Representative samples of water fountains and/or faucets with the likelihood of ingestion by children were located and sampled. For example, if a classroom has two identical water fountains, only one was sampled; or, if a faucet was located in a maintenance room where children had no access, it would not be sampled.

One sample was taken at each designated location at the McNichols Plaza Elementary, according to EPA's 3T's Toolkit sampling protocols. The sample was taken under worst case scenario condition. All samples were taken as First Draw after the water sat (unused) in the pipes for a minimum of eight (8) hours.

Clean/new sample bottles containing a preservative were supplied by a local laboratory. Samples were transported to the laboratory on ice within the specified holding times.

SAMPLE RESULTS

The sample results were compared to both EPA's Remediation Trigger Level [RTL] of 0.020 mg/l and PADEP's Lead Action Level of 0.015 mg/l.

The following table summarizes the First Draw lead results sampled on December 27, 2019 from the McNichols Plaza Elementary:

Sample ID:	Sample Location Description:	Lead Concentration (mg/l)	Lead RTL* (mg/l)	Lead Action Level** (mg/l)	Exceeds Action Level
MCN-01	Faculty Break Room – Sink	0.002	0.020	0.015	No
MCN-02	1 st Grade Brown Section – Water Fountain	0.001	0.020	0.015	No
MCN-03	4th Grade (Yellow walls) – Sink	0.016	0.020	0.015	YES
MCN-04	Library, Classroom (Peach walls) – Sink	0.015	0.020	0.015	No
MCN-05	Kindergarten – Sink	0.003	0.020	0.015	No
MCN-06	Kindergarten – Water Fountain	0.003	0.020	0.015	No
MCN-07	Band Room – Sink	0.005	0.020	0.015	No
MCN-08	Center Area near Girls Restroom (Yellow/Brown Tile) – Water Fountain	0.001	0.020	0.015	No
MCN-09	Center Area near Boys Restroom (Blue Tile) – Water Fountain	<0.001	0.020	0.015	No
MCN-10	Computer Lab – Right Sink	0.093	0.020	0.015	YES
MCN-11	Gym, Girls Restroom – Left Sink	0.052	0.020	0.015	YES
MCN-12	Gym, Girls Restroom – Right Sink	0.003	0.020	0.015	No
MCN-13	Room, behind Nurse's Office – Sink	0.014	0.020	0.015	No
MCN-14	Gym, Boys Restroom – Left Sink	0.003	0.020	0.015	No
MCN-15	Gym, Boys Restroom – Right Sink	0.003	0.020	0.015	No
MCN-16	Cafeteria – Rear Left Sink	0.004	0.020	0.015	No
MCN-17	Cafeteria – Rear Right Sink	0.001	0.020	0.015	No
MCN-18	Cafeteria – Wash Sink (Next to Refrigerator)	0.012	0.020	0.015	No
MCN-19	1st Grade (Brown Section) – Sink	0.061	0.020	0.015	YES
MCN-20	2 nd Grade, near Girls Restroom (Brown/ Yellow/White tile), Center Area – Water Fountain	0.003	0.020	0.015	No
MCN-21	2 nd Grade, near Boys Restroom (Yellow/Green tile), Center Area – Water Fountain	<0.001	0.020	0.015	No
MCN-22	Room, behind Nurse's Office – Restroom Sink	0.005	0.020	0.015	No
MCN-23	Nurse's Office, Restroom – Sink	0.003	0.020	0.015	No
MCN-24	Main Office, Copy Room – Sink	0.003	0.020	0.015	No

* RTL is defined by EPA as the level at which remedial action should be taken to reduce potential exposure to lead in public school drinking water.

** Action Level is defined by EPA as the level at which action should be taken to reduce the concentration of lead in drinking water.

Samples, MCN-03, MCN-10, MCN-11, and MCN-19, were reported by the laboratory as above the Action Level. If any sample result exceeded PADEP's Action Level (which is the most stringent), the School was contacted and it was recommended that the fountain/faucet be immediately taken out of service or signage be posted stating, "NOT FOR DRINKING/COOKING".

It should be noted that sample, MCN-04 was approaching (actual result reported by lab was 0.0149) PADEP's Lead Action Level of 0.015 mg/l. As a safeguard, it was recommended that sample MCN-04 be immediately taken out of service or signage be posted stating, "NOT FOR DRINKING/COOKING".

No other samples exceeded either EPA's Remediation Trigger Level [RTL] of 0.020 mg/l and PADEP's Lead Action Level of 0.015 mg/l.

The Laboratory Analytical Reports (with Chain-of-Custody Forms) are found in Appendix A of this report.

RECOMMENDATIONS

As previously stated, if a sample concentration of 0.015 mg/l of lead was exceeded, GAI contacted the School District and it was recommended that the drinking fountain or faucet of concern be immediately taken out of service or signage be posted stating, "NOT FOR DRINKING/COOKING". If no sample results exceeded the PADEP's Action Level or EPA's RTL, no remediation action was recommended.

As permanent control measure, GAI recommends the following:

- 1). Any fountain or faucet used for drinking with elevated lead content should be permanently removed and replaced with a bottled water cooler.
- 2). It is strongly recommended that any faucet with elevated lead be immediately taken out of service or be posted "NOT FOR DRINKING/COOKING". Because there is a possibility that Lead may be present in faucets that have not been tested, it is therefore recommended that untested faucets be posted as well. Postings should be inspected monthly and replaced as needed.
- 3). As a safeguard, a schedule of flushing drinking water fountains and cooking faucets should be established by the School at the beginning of each school year and after long holidays (e.g. Christmas/New Year, Thanksgiving).
- 4). Results of lead sampling and remediation actions should be posted on the School District's Website and in the Administrative Offices of the School. Also, according to the PA Public School Code No. 2018-39, an elevated lead level "shall be reported to the Department of Education and posted on the Department's publicly accessible Internet Website".

APPENDIX A: SAMPLE CHAIN OF CUSTODY & ANALYTICAL RESULTS



201 West Clay Avenue / Hazle Township, PA 18202

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Report Narrative

Customer: Guzek Associates, Inc.
401 Davis Street
Clarks Summit, PA 18411

Report Date: 1/17/2020

Page 1 of 8

HawkMtn WO #: 1912-00984
Subject Line: McNichols School Drinking Water Lead Analysis

Any information provided by client (CLT) has not been performed by HML and is not within the HML scope of accreditation.

All solid samples are reported on an "as received" basis unless otherwise noted.

The test results meet the requirements of 25 PA Code and Chapter 252, except where noted.

The information contained in this analytical report is the sole property of Hawk MTN Laboratories, Inc. and that of the client. It cannot be reproduced in any form without the consent of Hawk MTN Labs, Inc. or the client for which this report was issued. The results contained in this report(s) are only representative of the sample(s) received. Conditions are dependant on location and time of the sampling event.

Hawk MTN Laboratories, Inc. is not responsible for use or interpretation of the data included herein.

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Certificate of Analysis

Customer: Guzek Associates, Inc.
401 Davis Street
Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 9:47
Date Received: 12/30/2019
Client Sample ID: MCN-01, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-001
Sampler: CLIENT
Sample Point ID: MCN-01

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00150 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 9:48
Date Received: 12/30/2019
Client Sample ID: MCN-02, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-002
Sampler: CLIENT
Sample Point ID: MCN-02

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00115 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 9:48
Date Received: 12/30/2019
Client Sample ID: MCN-03, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-003
Sampler: CLIENT
Sample Point ID: MCN-03

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
* Lead, DW ICP-MS	0.0161 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 9:59
Date Received: 12/30/2019
Client Sample ID: MCN-04, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-004
Sampler: CLIENT
Sample Point ID: MCN-04

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.0149 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

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Customer: Guzek Associates, Inc.
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Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:00
Date Received: 12/30/2019
Client Sample ID: MCN-05, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-005
Sampler: CLIENT
Sample Point ID: MCN-05

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00333 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:01
Date Received: 12/30/2019
Client Sample ID: MCN-06, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-006
Sampler: CLIENT
Sample Point ID: MCN-06

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00323 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:02
Date Received: 12/30/2019
Client Sample ID: MCN-07, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-007
Sampler: CLIENT
Sample Point ID: MCN-07

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00520 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:04
Date Received: 12/30/2019
Client Sample ID: MCN-08, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-008
Sampler: CLIENT
Sample Point ID: MCN-08

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00122 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

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Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:04
Date Received: 12/30/2019
Client Sample ID: MCN-09, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-009
Sampler: CLIENT
Sample Point ID: MCN-09

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:06
Date Received: 12/30/2019
Client Sample ID: MCN-10, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-010
Sampler: CLIENT
Sample Point ID: MCN-10

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
* Lead, DW ICP-MS	0.0933 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:09
Date Received: 12/30/2019
Client Sample ID: MCN-11, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-011
Sampler: CLIENT
Sample Point ID: MCN-11

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
* Lead, DW ICP-MS	0.0522 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:09
Date Received: 12/30/2019
Client Sample ID: MCN-12, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-012
Sampler: CLIENT
Sample Point ID: MCN-12

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00299 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

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Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:20
Date Received: 12/30/2019
Client Sample ID: MCN-13, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-013
Sampler: CLIENT
Sample Point ID: MCN-13

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.0136 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:10
Date Received: 12/30/2019
Client Sample ID: MCN-14, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-014
Sampler: CLIENT
Sample Point ID: MCN-14

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00346 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:10
Date Received: 12/30/2019
Client Sample ID: MCN-15, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-015
Sampler: CLIENT
Sample Point ID: MCN-15

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00267 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:12
Date Received: 12/30/2019
Client Sample ID: MCN-16, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-016
Sampler: CLIENT
Sample Point ID: MCN-16

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00388 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

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Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:12
Date Received: 12/30/2019
Client Sample ID: MCN-17, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-017
Sampler: CLIENT
Sample Point ID: MCN-17

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00129 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:12
Date Received: 12/30/2019
Client Sample ID: MCN-18, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-018
Sampler: CLIENT
Sample Point ID: MCN-18

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.0124 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:12
Date Received: 12/30/2019
Client Sample ID: MCN-19, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-019
Sampler: CLIENT
Sample Point ID: MCN-19

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
* Lead, DW ICP-MS	0.607 mg/L	10	0.001	EPA 200.8		KLM	1/7/20 22:31	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 9:56
Date Received: 12/30/2019
Client Sample ID: MCN-20, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-020
Sampler: CLIENT
Sample Point ID: MCN-20

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00280 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

PA DEP 40-417
EPA PA00169



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Clarks Summit, PA 18411

Report Date: 1/17/2020

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 9:56
Date Received: 12/30/2019
Client Sample ID: MCN-21, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-021
Sampler: CLIENT
Sample Point ID: MCN-21

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	<0.001 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:20
Date Received: 12/30/2019
Client Sample ID: MCN-22, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-022
Sampler: CLIENT
Sample Point ID: MCN-22

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00462 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:25
Date Received: 12/30/2019
Client Sample ID: MCN-23, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-023
Sampler: CLIENT
Sample Point ID: MCN-23

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00277 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

Material Tested: Potable Water
Date Sampled: 12/27/2019 Time Sampled: 10:27
Date Received: 12/30/2019
Client Sample ID: MCN-24, Drinking Water Lead Analysis

HawkMtn WO #: 1912-00984-024
Sampler: CLIENT
Sample Point ID: MCN-24

<u>Test Name</u>	<u>Test Results</u>	<u>Dilution</u> <u>Factor</u>	<u>Quant</u> <u>Limit</u>	<u>Method</u>	<u>Qual</u>	<u>Tech</u>	<u>Start</u> <u>Date/Time</u>	<u>End</u> <u>Date/Time</u>
Lead, DW ICP-MS	0.00250 mg/L	1	0.001	EPA 200.8		KLM	1/6/20 23:09	

PA DEP 40-417
EPA PA00169



201 West Clay Avenue / Hazle Township, PA 18202

PHONE (570) 455-6011 - FAX (570) 455-6321

www.hawkmtnlabs.com

Certificate of Analysis

Customer: Guzek Associates, Inc.
401 Davis Street
Clarks Summit, PA 18411

Report Date: 1/17/2020

ND = Non Detect

These results relate only to the sample noted above.

This certificate is not to be reproduced except in full,
without the written approval of HawkMtn Labs

A handwritten signature in black ink, appearing to read "Jeff Gittleman", is written over a horizontal line.

Jeff Gittleman, Lab Director

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Work Order #: 1912-00984 Purchase Order:
Site Name: Guzek Associates, Inc.
Contact: learl.gai@gmail.com

Chain of Custody & Analysis Record
HawkMtn Labs, Inc.
201 West Clay Ave, Hazle Township, PA 18202
Ph.(570) 455-6011 Fax (570) 455-6321

Pick Up Date:

Page 1 of 3

Printed By: AII

Approved By: ALP

Bottles made by: CLT

Checked By: HH

Composite

Start Date: _____ Time: _____
End Date: _____ Time: _____

Grab

Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____

Smp#	Bottle	Preservative	Recd	Smp#	Bottle	Preservative	Recd
001	Copper/Lead 1L Graduated	HNO3	☒	010	Copper/Lead 1L Graduated	HNO3	☒
002	Copper/Lead 1L Graduated	HNO3	☒	011	Copper/Lead 1L Graduated	HNO3	☒
003	Copper/Lead 1L Graduated	HNO3	☒	012	Copper/Lead 1L Graduated	HNO3	☒
004	Copper/Lead 1L Graduated	HNO3	☒	013	Copper/Lead 1L Graduated	HNO3	☒
005	Copper/Lead 1L Graduated	HNO3	☒	014	Copper/Lead 1L Graduated	HNO3	☒
006	Copper/Lead 1L Graduated	HNO3	☒	015	Copper/Lead 1L Graduated	HNO3	☒
007	Copper/Lead 1L Graduated	HNO3	☒	016	Copper/Lead 1L Graduated	HNO3	☒
008	Copper/Lead 1L Graduated	HNO3	☒	017	Copper/Lead 1L Graduated	HNO3	☒
009	Copper/Lead 1L Graduated	HNO3	☒	018	Copper/Lead 1L Graduated	HNO3	☒

Samples: 19
then 24 recd
80% HNO3
sg 12/30/19

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
001	MCN-01, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.4 °C	12/21/19	9:47a		mg/L	°C
002	MCN-02, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.5 °C		9:48		mg/L	°C
003	MCN-03, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.4 °C		9:48		mg/L	°C
004	MCN-04, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.4 °C		9:59		mg/L	°C
005	MCN-05, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.4 °C		10:00		mg/L	°C
006	MCN-06, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.3 °C		10:01		mg/L	°C
007	MCN-07, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.3 °C		10:02		mg/L	°C
008	MCN-08, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.3 °C		10:04		mg/L	°C
009	MCN-09, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.2 °C		10:04		mg/L	°C
010	MCN-10, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.1 °C		10:06		mg/L	°C

Receipt Info: Recieved on ice? ☒ Y / N COC intact and complete? ☒ Y / N Adequate samples? ☒ Y / N Completed by: ALP
Samples intact? ☒ Y / N Correct containers? ☒ Y / N Volatiles: Headspace present? ☒ Y / N Samples/COC/Analysis agree? ☒ Y / N

Sampled By: Chris Notari / Bret Tjor

Field Meter ID: NA

Notes:

Client used
White Out prior
to HML. KC
12/30/19

All samples taken in 250mL
plastic HNO3 preserved bottles.

RELINQUISHED BY: Bret Tjor

RECEIVED BY: _____

RELINQUISHED BY: Janele Jones

RECEIVED AT LAB: 12/30/19

LOGGED IN AT LAB: 12/30/19

Date: 12/30/19 Time: 12:10

12/11/2019

Work Order #: **1912-00984** Purchase Order:
Site Name: **Guzek Associates, Inc.**
Contact: **learl.gai@gmail.com**

Chain of Custody & Analysis Record
HawkMtn Labs, Inc.
201 West Clay Ave, Hazle Township, PA 18202
Ph.(570) 455-6011 Fax (570) 455-6321

Pick Up Date:

Page 2 of 3

Printed By: *Al*

Approved By: *ALP*

Bottles made by: *CLT*

Checked By: *W*

019-020: 250mL Plastic HNO₃

Composite	
Start Date: _____	Time: _____
End Date: _____	Time: _____
Grab	
Date: _____	Time: _____
Date: _____	Time: _____
Date: _____	Time: _____
Date: _____	Time: _____

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
011	MCN-11, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.9 °C	12/27/19	10:09 AM		mg/L	°C
012	MCN-12, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.9 °C		10:09		mg/L	°C
013	MCN-13, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	1.9 °C		10:20		mg/L	°C
014	MCN-14, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	3.5 °C		10:10		mg/L	°C
015	MCN-15, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.0 °C		10:10		mg/L	°C
016	MCN-16, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.1 °C		10:12		mg/L	°C
017	MCN-17, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.4 °C		10:12		mg/L	°C
018	MCN-18, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.1 °C		10:12		mg/L	°C
019	MCN-19, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.1 °C		10:12		mg/L	°C
020	MCN-20, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	2.1 °C		9:56		mg/L	°C

Receipt Info: Recieved on ice? ☒ Y / N COC intact and complete? ☒ Y / N
Samples intact? ☒ Y / N Correct containers? ☒ Y / N
Aduquate samples? ☒ Y / N Volatiles: Headspace present? ☒ Y / N
Completed by: *SL* Samples/COC/Analysis agree? ☒ Y / N *W*

Sampled By: *Chris Nafar / Brent Toyo*
Field Meter ID: *NA*

Notes:
Client used whiteout
Prior to HML
HC 12/30/19
All samples taken in 250mL plastic HNO₃ preserved bottles.

RELINQUISHED BY: *Brent Toyo* Date: *12/30/19* Time: *12:10pm*
RECEIVED BY: _____
RELINQUISHED BY: *Jeanette* Date: *12/30/19* Time: *12:10*
RECEIVED AT LAB: *Ken* Date: *12/30/19* Time: *13:29*
LOGGED IN AT LAB: _____

Site Name: Guzek Associates, Inc.

Contact: learl.gai@gmail.com

HawkMtn Labs, Inc.

201 West Clay Ave, Hazle Township, PA 18202

Ph.(570) 455-6011 Fax (570) 455-6321

Pick Up Date:

Printed By: Ail

Bottles made by: CLT

Approved By: ALP

Checked By: M

019-020: 250mL Plastic HNO₃
021-024
KC/12/30/19

Composite

Start Date: _____ Time: _____
End Date: _____ Time: _____

Grab

Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____
Date: _____ Time: _____

Smp #	Smp Site	Matrix/ Smp Type	Tests	Temp Upon Receipt	Sample Date	Sample Time	Field pH	Field Cl	Field Temp
011 21	MCN-11, Drinking Water Lead Analysis 21	Potable Water	DW-PB-MS	2.2 °C	12/27/19	9:56 AM		mg/L	°C
012 22	MCN-12, Drinking Water Lead Analysis 22	Potable Water	DW-PB-MS	2.2 °C	1	10:30		mg/L	°C
013 23	MCN-13, Drinking Water Lead Analysis 23	Potable Water	DW-PB-MS	2.2 °C	1	10:25		mg/L	°C
014 24	MCN-14, Drinking Water Lead Analysis 24	Potable Water	DW-PB-MS	2.1 °C	1	10:30		mg/L	°C
015	MCN-15, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	°C				mg/L	°C
016	MCN-16, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	°C				mg/L	°C
017	MCN-17, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	°C				mg/L	°C
018	MCN-18, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	°C				mg/L	°C
019	MCN-19, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	°C				mg/L	°C
020	MCN-20, Drinking Water Lead Analysis	Potable Water	DW-PB-MS	°C				mg/L	°C

Receipt Info: Received on ice? ☒ Y ☐ N
Samples intact? ☒ Y ☐ N

COC intact and complete? ☒ Y ☐ N
Correct containers? ☒ Y ☐ N

Adquate samples? ☒ Y ☐ N
Volatiles: Headspace present? ☒ Y ☐ N

Completed by: 888
Samples/COC/Analysis agree? ☒ Y ☐ N

Sampled By: Chris Nofis / Brent Toyo

Field Meter ID: NIX

Notes:

Client used whiteout

Prior to HML KC
12/30/19

All samples taken in 250mL
plastic HNO₃ preserved bottles.

RELINQUISHED BY: Brent Toyo

RECEIVED BY: _____

RELINQUISHED BY: Paula

RECEIVED AT LAB: 12/30/19

LOGGED IN AT LAB: 12/30/19

Date: 12/30/19 Time: 12:10

Date: 12/30/19 Time: 12:10
Date: 12/30/19 Time: 13:29