



ENVIRONMENTAL • GEOTECHNICAL  
BUILDING SCIENCES • MATERIALS TESTING

46555 Humboldt Drive  
Novi, Michigan 48377  
Telephone 248-669-5140  
www.atcgroupservices.com

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August 15<sup>th</sup>, 2018

Mathew Sam  
Detroit Public Schools  
1601 Farnsworth  
Detroit, Michigan 48202

SUBMITTED VIA EMAIL TO: mathew.sam@detroitk12.org

**SUBJECT:     Drinking Water Screening Report-DRAFT  
                  Coleman Young  
                  15771 Hubble  
                  Detroit, Michigan**

Dear Mr. Sam:

ATC Group Services, LLC (ATC) is pleased to submit this Drinking Water Screening Report for the subject school. The drinking water samples collected from the school were submitted to Pace Analytical Services, LLC, for Michigan Department of Environmental Quality (MDEQ) Drinking Water Certified lead and copper analysis.

#### **SCOPE OF WORK**

At the request of the Detroit Public Schools (DPS), ATC collected drinking water samples as a general screening for copper and lead at the subject school. The water sampling conducted included the sampling of fixtures within teacher's lounges, kitchens, water fountains and pre-k classrooms. One (1) sample was collected at each outlet: a first draw (Primary) sample. The Primary samples were collected from outlets that had been inactive for a minimum of eight to eighteen hours. The fixture inventory locations including the sample locations are shown on the Fixture Inventory Locations Map included under Attachment A and fixture inventory photos including the sample location photos are included in a Fixture Inventory Photo Log under Attachment B.

The drinking water samples were collected in 125 milliliter, wide-mouth sample containers, containing nitric acid (preservative). Each sample container was labeled utilizing a unique coding system that identified: the type of drinking outlet sampled as well as the location.



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The samples were transported under chain of custody to Pace Analytical Services, LLC, located at 5560 Corporate Exchange Ct. SE Grand Rapids, MI for MDEQ drinking water certified lead and copper analysis, using analytical method EPA 200.8 rev 5.4.

## FINDINGS

Analytical results indicate that three (3) of the samples analyzed were above the EPA recommended limits of 15 micrograms per liter (ug/L) for lead. One (1) of the samples analyzed was above the EPA recommended limits of 1300 micrograms per liter (ug/L) for copper. The table below summarizes the analytical results for the samples submitted. The laboratory analytical reports and chain of custody are provided in Attachment C.

Table 1 – Water Testing Results (August 13, 2018)

Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-HW-B-1	located on the 1st floor across from door #6	Bubbler	<b>17.4 ug/L</b>	203 ug/L
1-K-KS-2	located in kitchen	hand wash	8.2 ug/L	401 ug/L
1-K-KS-3	located in kitchen @ dish washing station	kitchen faucet	6.5 ug/L	583 ug/L
1-HW-B-8	located on the 1st floor next to room 109	Bubbler	<b>24.6 ug/L</b>	633 ug/L
1-113(gym)-B-9	located on the 1st floor in gym	Bubbler	3.2 ug/L	155 ug/L
1-HW-B-10	located on the 1st floor across from Rm 110, next to 112	Bubbler	1.9 ug/L	279 ug/L
1-HW-DWF-11	located on the 1st floor across from main door & Rm 102	drinking water fountain	<1.0 ug/L	456 ug/L
1-HW-B-12	located on the 1st floor across from room 101	Bubbler	10.3 ug/L	306 ug/L
1-OF-SRF-13	located in main office in storage room	staff faucet	7.4 ug/L	378 ug/L



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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-NS-NSF-14	located in main office in clinic	nurse faucet	2.5 ug/L	326 ug/L
1-HW-B-15	located on the 1st floor across from room (003) Kindergarten class	Bubbler	4.4 ug/L	246 ug/L
2-HW-DWF-19	located on the 2nd floor next to men restrooms & across from Rm 202	drinking water fountain	1.4 ug/L	<b>1800 ug/L</b>
2-SR-SRF-20	located on the 2nd floor across from girls restrooms	staff faucet	8.9 ug/L	438 ug/L
2-HW-B-21	located on the 2nd floor between women restrooms & storage room	Bubbler	1.6 ug/L	257 ug/L
2-SR-SRF-22	located on the 2nd floor across from Rm 201	staff faucet	<b>59.2 ug/L</b>	614 ug/L

Key: NA - Not Analyzed

ug/L- micrograms per liter /parts per billion (ppb)

Analysis of samples in the area across from 201 and the 1<sup>st</sup> floor hallway, office indicate that lead levels were above the MCL. Analysis of samples in the 2<sup>nd</sup> floor staff room indicates that copper levels were above the MCL. See recommendations below.

### RECOMMENDATIONS

For drinking water fixtures that exceed the MCL after the initial sampling, ATC recommends the following:

1. Implement a plan in accordance with MDEQ Guidance on Drinking Water Sampling for Lead and Copper, April, 2016 Version2; OR
2. Remove fixture from service.
3. Implement a flush plan for fixtures that exceed the MCL of the initial sample according to MDEQ Guidance and the EPA's 3T's for Reducing Lead in Drinking Water in Schools.



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## LIMITATIONS

The sampling and analysis completed was: a preliminary screening for lead and copper only, to assess lead and copper concentrations (ug/L) at drinking water outlets in the school designated as high use by DPS, and may not be representative of all drinking water outlets within the school. If lead or copper concentrations were identified above their respective MCL's at any of the drinking water outlets tested, further review of the plumbing system, fixtures affected, and testing may be completed to assess the source of the elevated levels of lead and/or copper, as well as, any other response actions deemed necessary by DPS.

Future drinking water evaluation and sampling in accordance with the recommendations may be predicated on applicable guidelines by the MDEQ or EPA and will be determined prior to developing a sampling plan for the school.

Sincerely,

**ATC Group Services, LLC**

A handwritten signature in black ink that reads "Martin K. Gamble".

Martin K. Gamble  
Senior Project Manager

A handwritten signature in black ink that reads "Robert C. Smith".

Robert C. Smith  
Building Science Department Manager

## Attachments

- Attachment A: Fixture Inventory Locations Map/Form
- Attachment B: Fixture Inventory Photo Log
- Attachment C: Laboratory Analytical Report