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Novi, Michigan 48377
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August 15, 2018

Mathew Sam
Detroit Public Schools
1601 Farnsworth
Detroit, Michigan 48202

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

SUBJECT: **Drinking Water Screening Report**
Renaissance High School
6565 W. Outer Drive
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 none of the samples analyzed were above the EPA recommended limits of 15 micrograms per liter (ug/L) for lead. Two of the samples analyzed were 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 3, 2018)

Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
2-Hall-B-1	Across from room 203A	Left	<1.0 ug/L	336 ug/L
2-Hall-B-2	Across from room 203A	Right	<1.0 ug/L	383 ug/L
2-Track-B-5	Track near main office- from left to right, near hall	Left	<1.0 ug/L	497 ug/L
2-Track-B-6	Track near main office- from left to right, near hall	Right	<1.0 ug/L	536 ug/L
2-Track-B-7	Track near main office- from left to right, backside	Left	<1.0 ug/L	**1980 ug/L**
2-Track-B-8	Track near main office- from left to right, backside	Right	<1.0 ug/L	**1850 ug/L**
3-Hall-B-4	Across from room 308	Right	<1.0 ug/L	278 ug/L
1-Gym-B-9	In gym, near room 130 Women's Locker Room	Left	<1.0 ug/L	915 ug/L
1-Gym-B-10	In gym, near room 130 Women's Locker Room	Right	<1.0 ug/L	542 ug/L

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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-Gym-B-11	In gym, near room 135 Men's Locker Room	Left	<1.0 ug/L	697 ug/L
1-Gym-B-12	In gym, near room 135 Men's Locker Room	Right	<1.0 ug/L	647 ug/L
1-Hall-B-13	Next to room 112, behind Stage area	Left	<1.0 ug/L	1240 ug/L
1-Hall-B-14	Next to room 112, behind Stage area	Right	<1.0 ug/L	1140 ug/L
1-Hall-B-15	Across from room 127, near gym	Left	<1.0 ug/L	594 ug/L
1-Hall-B-16	Across from room 127, near gym	Right	<1.0 ug/L	569 ug/L
1-Hall-B-17	Near dining area, in Main Atrium	Lett	<1.0 ug/L	41.1 ug/L
1-Hall-B-18	Near dining area, in Main Atrium	Right	<1.0 ug/L	41.4 ug/L
1-K-KS-20	Kitchen	Retail area- sink	3.3 ug/L	394 ug/L
1-K-KS-22	Kitchen	3 chamber sink, left faucet	<1.0 ug/L	237 ug/L
1-K-KS-23	Kitchen	3 chamber sink, center faucet	<1.0 ug/L	202 ug/L
1-K-KS-26	Kitchen, right of walk-in freezer	2 chamber sink, 1 faucet	1.1 ug/L	340 ug/L
1-K-KS-27	Kitchen, right of walk-in freezer	2 chamber sink, 1 faucet	<1.0 ug/L	177 ug/L
1-K-KS-30	Kitchen, left of 81B Chemical Storage Room	2 chamber sink, 1 faucet	<1.0 ug/L	214 ug/L
1-K-SRF-31	Kitchen, Staff sink in Kitchen Office	used for coffee	<1.0 ug/L	335 ug/L

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Sample Number	Location	Description	Total Lead (ug/l)	Total Copper (ug/l)
1-JWMO-SRF-43	JLW Wing: Main Office	used for coffee	<1.0 ug/L	207 ug/L
1-001M-44	JLW Wing: Main Office Room 001M	used for coffee	2.9 ug/L	164 ug/L
1-Hall-B-50	Hallway next to 011/013 Restrooms	left	<1.0 ug/L	128 ug/L
1-Hall-B-51	Hallway next to 011/013 Restrooms	right	<1.0 ug/L	125 ug/L
1-Hall-B-45	Hallway next to 031/033 Restrooms	left	<1.0 ug/L	85.0 ug/L
1-Hall-B-46	Hallway next to 031/033 Restrooms	right	<1.0 ug/L	83.0 ug/L
1-Hall-B-47	Hallway next to 051/053 Restrooms	left	<1.0 ug/L	199 ug/L
1-Hall-B-48	Hallway next to 051/053 Restrooms	right	<1.0 ug/L	184 ug/L
1-Hall-B-32	Across from room 081	left	<1.0 ug/L	152 ug/L
1-Hall-B-33	Across from room 081	right	<1.0 ug/L	153 ug/L
1-085-SRF-42	Room 085 Teacher's Lounge		<1.0 ug/L	484 ug/L
1-079-KS-35	Room 079 Special Ed Kitchen	single sink faucet, by microwave	1.6 ug/L	220 ug/L
1-079-KS-38	Room 079 Special Ed Kitchen	single sink faucet, by microwave	<1.0 ug/L	173 ug/L
1-079-KS-40	Room 079 Special Ed Kitchen		1.7 ug/L	241 ug/L

Key: NA - Not Analyzed

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

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Analysis of samples in the Track near main office 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.

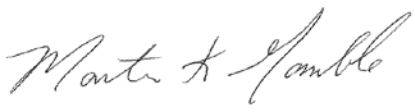
LIMITATIONS

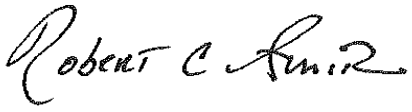
The sampling and analysis completed was: a preliminary screening for lead and copper only, to assess lead and copper concentrations (ug/L) at drinking water outlets in the school designated as high use by DPS, and may not be representative of all drinking water outlets within the school. If lead or copper concentrations were identified above their respective MCL's at any of the drinking water outlets tested, further review of the plumping 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





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Attachments

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