



ENVIRONMENTAL • GEOTECHNICAL  
BUILDING SCIENCES • MATERIALS TESTING

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

Mathew Sam  
Detroit Public Schools  
1601 Farnsworth  
Detroit, Michigan 48202

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

**SUBJECT:     Drinking Water Screening Report  
                  West Side Academy  
                  4701 McKinley  
                  Detroit, Michigan 482098**

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 Brighton Analytical L.L.C., 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. DPS in coordination with the City of Detroit Health Department determined that the screening would consist of collection of water samples from three (3) high priority water outlets (drinking fountains, kitchen/food preparation area faucets, etc.), regularly used by students and staff for drinking, as designated by DPS personnel. Two (2) samples were collected at each outlet: a first draw (Primary) sample; and a Flush sample. The Primary samples were collected from outlets that had been inactive for a minimum of eight hours. The Flush samples were collected after the water was allowed to run for a minimum of thirty (30) seconds at each of the sample locations.

The drinking water samples were collected in 125 milliliter, wide-mouth sample containers, containing nitric acid (preservative). Each sample container was labeled utilizing a coding system that identified: the type of drinking outlet sampled, Drinking Water Fountain (DWF), Drinking Water Cooler (DWC), Kitchen Faucet (KF) etc.; and a (P) for primary samples and a (F) for flush samples.



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The samples were transported under chain of custody to Brighton Analytical L.L.C., located at 2105 Pless Drive in Brighton, Michigan for MDEQ drinking water certified lead and copper analysis, using analytical method EPA 200.8 rev 5.4.

As per the EPA's *3T's for Reducing Lead in Drinking Water in Schools, Revised Technical Guidance (October 2006)* analysis of the flush sample(s) was only performed if analysis of the first draw (Primary) sample(s) indicated lead and/or copper concentrations greater than the EPA established Maximum Contaminate Level (MCL).

**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. Analytical results indicate that none of the samples analyzed were above the EPA recommended limits of 1300 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 A.

Sample Number	Total Lead (Drinking Water)	MCL	Total Copper (Drinking Water)	MCL
1-F-P-WSA-Teacher's Lounge	Not Detected	15 ug/L	460 ug/L	1300 ug/L
1-F-F-WSA-Teacher's Lounge	NA	15 ug/L	NA	1300 ug/L
2-F-P-WSA-Kitchen	Not Detected	15 ug/L	390 ug/L	1300 ug/L
2-F-F-WSA-Kitchen	NA	15 ug/L	NA	1300 ug/L
3-DWC-P-WSA-Cafeteria	Not Detected	15 ug/L	350 ug/L	1300 ug/L
3-DWC-F-WSA-Cafeteria	NA	15 ug/L	NA	1300 ug/L

Key: NA - Not Analyzed

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



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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 are identified above their respective MCL's at any of the drinking water outlets tested, further review of the plumbing system, fixtures affected, and testing should 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.

The drinking water screening proposed and conducted by ATC was devised in cooperation with Detroit Public Schools, City of Detroit Health Department and utilizing the EPA's 3Ts for Reducing Lead in Drinking Water in Schools and may not meet all of the recommendations provided by the MDEQ "Guidance on Drinking Water Sampling for Lead and Copper at Schools and Daycares on Community Water Supplies" Version 2.0 - April 13, 2016. 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 H. Gamble".

Martin Gamble  
Senior Project Manager

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

Robert C. Smith  
Building Science Department Manager



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[www.atcgroupservices.com](http://www.atcgroupservices.com)

**ATTACHMENT A**

**LABORATORY REPORT  
AND  
CHAIN OF CUSTODY**

May 12, 2016

ATC Associates  
46555 Humboldt Dr.  
Suite 100  
Novi, MI 48377

Subject: West Side Academy - 4701 McKinley  
188BS16170

Dear Mr. Smith :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 05/02/2016 for the above mentioned project. NELAP/TNI Accredited Analysis and MDEQ 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 38837 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, L.L.C.™

Email: ba@brightonanalytical.net

2105 Pless Drive  
Brighton, MI 48114

Phone: 810-229-7575  
Fax: 810-229-8650

BA PROJECT #:  
38832

ABBREVIATIONS  
FOR MATRIX

S = Solid  
L = Liquid  
DW = Drinking H<sub>2</sub>O  
O = Oil  
A = Air (Tealor Bag)  
F = Filter  
T = Tube  
M = Misc.

Analysis Requested/Method

PAGE 1 OF 1  
COMPANY/MAILING ADDRESS:

PTC Group Services, LLC

46555 Humboldt Dr. Ste 100

NW, MI 48377

ATTN: Robert Smith

PHONE: 248.665.5140

FAX OR EMAIL: Robert.Smith@ptcgroup.com

PROJECT NAME: West Side Academy - 470 N. Kiskadee

PROJECT #: 188BS16173

PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)

Sample collected by: Dawn Winkler

REQUESTED TURNAROUND: (circle one)

Rush: 1-3 business days (verify with lab & specify date needed)

1 Day = 2.5X Cost 2 Day = 2X Cost 3 Day = 1.5X Cost

Standard: 5 business days

If RUSH, approved by:

Sample Coll.

Brighton ID #

Date

Time

Container Type & Quantity

VOA'S (PRES) Y N N/A

HDPE UNPRESERVED

HDPE HNO<sub>3</sub>

HDPE H<sub>2</sub>SO<sub>4</sub>

HDPE NAOH

AMBER PRESERVED?

GLASS, NO PRESERVATIVE

STERILIZED BACTERIA

MEOH Preserved Y N

Sample Matrix

Lead - Primary (P)  
Copper Primary (P)

Lead - FLUOR (F) - Hold  
Copper FLUOR (F) - Hold

CD01897

BILLING ADDRESS (IF REQUIRED):

Same as matrix

Drinking H<sub>2</sub>O:

Fax to LCHD? yes  no

Chlorinated Water Supply? yes  no

AMT: \_\_\_\_\_

MCL Failure: yes  no

Client Notified (date/time/initials): \_\_\_\_\_

Special Instructions: IS Lead or Copper is above detection limit? Analyze Fluor samples

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
1	Dawn Winkler	[Signature]	5/21/11	10:45	3				
2	[Signature]	[Signature]	5/21/11	11:30	4				



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

Sample Date/Time: 4/30/2016 08:38  
 Submit Date/Time: 5/2/2016 11:30  
 Report Date: 5/12/2016

ATC Associates  
 46555 Humboldt Dr.  
 Suite 100  
 Novi, MI 48377

BA Project # **38837**  
 BA Sample ID **CD01877**

Project Name: **West Side Academy - 4701 McKinley**  
 Project Number: **188BS16170**  
 Sample ID: **1-F-P-WSA-Teacher's Lng**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
<b>Drinking Water Metal Analysis</b>							
Total Copper (Drinking Water)	460	ug/L	20	1300	EPA 200.8 rev5.4	11:15	05/11/2016
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	11:15	05/11/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR 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 5/12/16



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

Sample Date/Time: 4/30/2016 08:41  
 Submit Date/Time: 5/2/2016 11:30  
 Report Date: 5/12/2016

ATC Associates  
 46555 Humboldt Dr.  
 Suite 100  
 Novi, MI 48377

BA Project # **38837**  
 BA Sample ID **CD01879**

Project Name: **West Side Academy - 4701 McKinley**  
 Project Number: **188BS16170**  
 Sample ID: **2-F-P-WSA-Kitchen**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
<b>Drinking Water Metal Analysis</b>							
Total Copper (Drinking Water)	390	ug/L	20	1300	EPA 200.8 rev5.4	11:19	05/11/2016
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	11:19	05/11/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR 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 5/12/16



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

Sample Date/Time: 4/30/2016 08:48  
 Submit Date/Time: 5/2/2016 11:30  
 Report Date: 5/12/2016

ATC Associates  
 46555 Humboldt Dr.  
 Suite 100  
 Novi, MI 48377

BA Project # **38837**  
 BA Sample ID **CD01881**

Project Name: **West Side Academy - 4701 McKinley**  
 Project Number: **188BS16170**  
 Sample ID: **3-DWC-P-WSA-Cafeteria**

Analyte Name	Result	Units	RL	MCL	Method Reference	Analysis Time	Analysis Date
<b>Drinking Water Metal Analysis</b>							
Total Copper (Drinking Water)	350	ug/L	20	1300	EPA 200.8 rev5.4	11:24	05/11/2016
Total Lead (Drinking Water)	Not detected	ug/L	1	15	EPA 200.8 rev5.4	11:24	05/11/2016

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR 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 5/12/16



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY  
CONTROL

# ICP-MS

## METHOD 200.8/6020

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 5/11/2016

Standard ID: 050416 H2O

Batch: 5/9/2016 W3

Matrix Spike Lab ID: CD01973

Matrix: Total

Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/kg)	Matrix Spike Dup (ug/kg)	RPD (%)	Spk Conc (ug/kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/kg)	Method Blk (ug/kg)	LCS-Method STD (%)	Ind. Std. (%)
Chromium	953	1019	6.7	1000	95.3	101.9	0	<5	102.9	99.9
Copper	957	1028	7.2	1000	95.2	102.3	5	<4	105.2	102.9
Arsenic	960	1032	7.2	1000	95.3	102.5	7	<1	102	97.9
Lead	962	1007	4.6	1000	96.2	100.7	0	<1	101.8	95.3

\* Matrix spike precision range +/- 20% RPD

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

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

Comments: \_\_\_\_\_