



Trace Analytical Laboratories, Inc.
 2241 Black Creek Road
 Muskegon, MI 49444-2673
 Phone: 231.773.5998 Fax: 888.979.4467
 www.trace-labs.com

State of Michigan Laboratory ID: 8001

May 22, 2017

Mr. Stephen King
 Birmingham Public Schools
 2305 Cole Street
 Birmingham, MI 48009

PROJECT: West Maple

TRACE ID: T17E281-01

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
WM-43-CF		5/13/17	9:50	twb		5/15/17 8:44	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.44 mg/L	1.3	5/17/17 13:16	5/19/17 12:40	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0082 mg/L	0.015	5/17/17 13:16	5/19/17 12:40	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17E281-02

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
WM-110-CF		5/13/17	9:52	twb		5/15/17 8:44	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.44 mg/L	1.3	5/17/17 13:16	5/19/17 12:43	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 12:43	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17E281-03

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
B1		5/13/17	9:55	twb		5/15/17 8:44	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.58 mg/L	1.3	5/17/17 13:16	5/19/17 12:45	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 12:45	dtm	EPA 200.8 Rev. 5.4	

* The MCL (Maximum Contamination Limit) is the maximum concentration allowed under the Federal Safe Drinking Water Act. Results that are reported in bold or red have equaled or exceeded the MCL.

Jon Mink
 Senior Project Manager



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PROJECT: West Maple

TRACE ID: T17E281-04

Sample Point Description	Collected	Collected By	Received at Laboratory			
B2	5/13/17 9:55	twb	5/15/17 8:44			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.65 mg/L	1.3	5/17/17 13:16	5/19/17 12:48	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 12:48	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E281-05

Sample Point Description	Collected	Collected By	Received at Laboratory			
B3	5/13/17 9:55	twb	5/15/17 8:44			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.53 mg/L	1.3	5/17/17 13:16	5/19/17 12:50	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 12:50	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E281-06

Sample Point Description	Collected	Collected By	Received at Laboratory			
B4	5/13/17 9:55	twb	5/15/17 8:44			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.61 mg/L	1.3	5/17/17 13:16	5/19/17 12:52	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 12:52	dtm	EPA 200.8 Rev. 5.4

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Jon Mink
 Senior Project Manager

State of Michigan Laboratory ID: 8001

May 22, 2017

Mr. Stephen King
Birmingham Public Schools
2305 Cole Street
Birmingham, MI 48009

PROJECT: West Maple

TRACE ID: T17E281-07

Sample Point Description B5	Collected 5/13/17 9:55	Collected By twb	Received at Laboratory 5/15/17 8:44
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.56 mg/L	1.3	5/17/17 13:16	5/19/17 12:55	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 12:55	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E281-08

Sample Point Description B6	Collected 5/13/17 9:55	Collected By twb	Received at Laboratory 5/15/17 8:44
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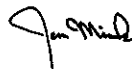
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.55 mg/L	1.3	5/17/17 13:16	5/19/17 13:05	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 13:05	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E281-09

Sample Point Description B7	Collected 5/13/17 9:55	Collected By twb	Received at Laboratory 5/15/17 8:44
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.54 mg/L	1.3	5/17/17 13:16	5/19/17 13:08	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 13:08	dtm	EPA 200.8 Rev. 5.4

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TRACE ID: T17E281-10

Sample Point Description	Collected	Collected By	Received at Laboratory			
B8	5/13/17 9:55	twb	5/15/17 8:44			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.57 mg/L	1.3	5/17/17 13:16	5/19/17 13:10	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 13:10	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E281-11

Sample Point Description	Collected	Collected By	Received at Laboratory			
B9	5/13/17 9:55	twb	5/15/17 8:44			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.60 mg/L	1.3	5/17/17 13:16	5/19/17 13:12	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 13:12	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E281-12

Sample Point Description	Collected	Collected By	Received at Laboratory			
B10	5/13/17 9:55	twb	5/15/17 8:44			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.50 mg/L	1.3	5/17/17 13:16	5/19/17 13:15	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:16	5/19/17 13:15	dtm	EPA 200.8 Rev. 5.4

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Jon Mink
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Birmingham Schools Fixture Inventory

Page 6 of 1

Building: West Maple

Date Collected: 5/13/17
 Sampler's Initials: TWB

Trace ID: T17E281
 Logged by: SL
 Checked by: GH

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	9:50	WM-43-CF	Rm 17 LT Wall- Left Sink-Left	3732/33	Y	Br, Cu	
2	9:52	WM-110-CF	Clinic	3790/91	Y	Br, Cu	
3	9:59	BI	Midway				
4							
5							
6							
7							
8							
9							
10							
11							
12							

Abbreviations:

- B= Classroom Bubbler
- BF= Bathroom Faucet
- Bottle= Bottle Filler
- CF= Classroom Faucet
- DF= Drinking Fountain
- DS= Deep Sink
- EW= Eye Wash
- HS= Hand Sink
- KF= Kitchen Faucet

Connecting Plumbing:

- Br= Brass
- Cu= Copper
- G= Galvanized
- P= Plastic
- SS= Stainless Steel

Released by: [Signature]

Received by: [Signature]

Date: 5/13/17 Time: 8:44



the science of compliance

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SAMPLE LOG IN CHECKLIST

WM
Trace ID #: TTE281 Date: 5-15-17 Package Description: Cooler Temperature: 19.3
Client Name: Birmingham Time: 8:44 Logged In by: SL

Cooler Receipt

Cooler/samples delivered by: Trace courier
Hand delivered Name of delivery person: _____
Commercial courier UPS FED EX US Mail
Tracking Number: Not Applicable
Tracking #: _____
COC Seals present and intact on cooler? No Yes Not Applicable
Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

Type of Coolant Used
Slurry w/ crushed, cubed, or chip ice?
Multiple bags of ice around samples?
Ice Packs/ Blue Ice:
No Coolant Present:
Ice still present upon receipt (circle one): Yes No N/A
Cooler Temperature
Correction Factors: •Digital Stick Thermometer CF = -0.6°C
•IR Thermometer CF = -0.4°C
Temperature Blank: N/A °C (Digital Stick Thermometer)
Range of 3 samples: 19.1-19.3 °C (IR Thermometer)
Melt Water: N/A °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Each sample point is in a sealed plastic bag?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Labels filled out completely?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
All bottle labels agree with Chain of Custody (COC)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sufficient sample to run tests requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
pH checked and samples at correct pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	See Below*
Correct preservative added to samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Air bubbles absent from VOAs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
COC filled out properly and signed by client?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COC signed in by TRACE sample custodian?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was project manager called and samples discussed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Notes: _____

*EMD pH Test Strips Used:
 pH 0-2.5 Lot: HC563733
 pH 11.0-13.0 Lot: HC547328
 Other: _____
Lot: HC563733 verified 8/21/16 AY
Lot: HC574781 verified 04/03/17 JS