

State of Michigan Laboratory ID: 8001

August 29, 2018

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

PROJECT: Harlan Elementary

TRACE ID: T18H466-01

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
H-11-CF	8/16/18 5:00	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.17 mg/L	1.3	8/27/18 12:39	8/28/18 10:26	jbb	EPA 200.8 Rev. 5.4
Lead	0.0082 mg/L	0.015	8/27/18 12:39	8/28/18 10:26	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H466-02

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
H-34-CF	8/16/18 5:01	twb	8/20/18 9:04

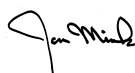
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.44 mg/L	1.3	8/27/18 12:39	8/28/18 10:28	jbb	EPA 200.8 Rev. 5.4
Lead	0.014 mg/L	0.015	8/27/18 12:39	8/28/18 10:28	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H466-03

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
H-84-CF	8/16/18 5:02	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.23 mg/L	1.3	8/27/18 12:39	8/28/18 10:29	jbb	EPA 200.8 Rev. 5.4
Lead	0.0065 mg/L	0.015	8/27/18 12:39	8/28/18 10:29	jbb	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.



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 Senior Project Manager

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TRACE ID: T18H466-04

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
H-91-CF	8/16/18 5:03	twb	8/20/18 9:04

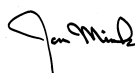
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.25 mg/L	1.3	8/27/18 12:39	8/28/18 10:31	jbb	EPA 200.8 Rev. 5.4
Lead	0.0039 mg/L	0.015	8/27/18 12:39	8/28/18 10:31	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H466-05

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
H-105-CF	8/16/18 5:04	twb	8/20/18 9:04

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.23 mg/L	1.3	8/27/18 12:39	8/28/18 10:32	jbb	EPA 200.8 Rev. 5.4
Lead	0.0032 mg/L	0.015	8/27/18 12:39	8/28/18 10:32	jbb	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.



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Birmingham Schools Chain-of-Custody Record

Page ____ of ____

Building: Harlan Elementary Date Collected: 8-16-18
 Sampler's Initials: TWB

Trace ID: TB4466
 Logged by: JS
 Checked by: [Signature]

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	5:00	H-11-CF	Rm 102	1938,39	Y	Br,Cu	
2	5:01	H-34-CF	Rm 103	1958/59	Y	Br, Cu	
3	5:02	H-84-CF	Rm 203	2008/09	Y	Br, Cu	
4	5:03	H-91-CF	Rm 208	2015/16	Y	Br,Cu	
5	5:04	H-105-CF	Rm 109	2023	Y	Br, Cu	

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
 Pl= Plastic
 SS= Stainless Steel

Released by: [Signature] Received by: _____ Date: _____ Time: _____

SAMPLE LOG IN CHECKLIST

Trace ID #: TR84166 Date: 8/20/18 Package Description: Cooler Temperature: 21.0
 Client Name: Birmingham Time: 9:04 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier Hand delivered Commercial courier UPS FED EX US Mail

Name of delivery person: Tim Brewer

Tracking Number: Not Applicable Tracking #: _____

COC Seals present and intact on cooler? Not Applicable No Yes

Custody seals signed by Client? No Yes Client custody seal # (if applicable): _____

Coolant and Temperature

<p>Type of Coolant Used</p> <p>Slurry w/ crushed, cubed, or chip ice? <input type="checkbox"/></p> <p>Multiple bags of ice around samples? <input type="checkbox"/></p> <p>Ice Packs/ Blue Ice: <input type="checkbox"/></p> <p>No Coolant Present: <input checked="" type="checkbox"/></p> <p>Ice still present upon receipt (circle one): Yes No <u>N/A</u></p>	<p>Cooler Temperature</p> <p>Correction Factors: •Digital Stick Thermometer CF = -0.6°C •IR Thermometer CF = -0.8°C</p> <p>Representative Sample Temperature: <u>20.3</u> °C (check one below)</p> <p><input type="checkbox"/> Temp Blank (Stick Thermometer) <input checked="" type="checkbox"/> Client Sample (IR Thermometer)</p> <p>Melt Water: <u>none</u> °C (Use Digital Stick Thermometer)</p>
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General				Comments
	Yes	No	NA	
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 checked="" type="checkbox"/>	<input type="checkbox"/>	

Notes:

***EMD pH Test Strips Used:**

pH 0-2.5 pH 11.0-13.0
 Lot: HC731452 Lot: HC600691

Other: _____