

State of Michigan Laboratory ID: 8001

August 29, 2018

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

PROJECT: Bingham Farms - Resample 082118

TRACE ID: T18H548-01

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-46-CF	8/21/18 6:30	twb	8/21/18 19:29			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.22 mg/L	1.3	8/27/18 12:39	8/28/18 11:44	jbb	EPA 200.8 Rev. 5.4
Lead	0.015 mg/L	0.015	8/27/18 12:39	8/28/18 11:44	jbb	EPA 200.8 Rev. 5.4

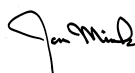
TRACE ID: T18H548-02

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-52-CF	8/21/18 6:31	twb	8/21/18 19:29			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.15 mg/L	1.3	8/27/18 12:39	8/28/18 11:47	jbb	EPA 200.8 Rev. 5.4
Lead	0.011 mg/L	0.015	8/27/18 12:39	8/28/18 11:47	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H548-03

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-58-CF	8/21/18 6:32	twb	8/21/18 19:29			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.18 mg/L	1.3	8/27/18 12:39	8/28/18 11:51	jbb	EPA 200.8 Rev. 5.4
Lead	0.019 mg/L	0.015	8/27/18 12:39	8/28/18 11:51	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.



Jon Mink
 Senior Project Manager

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TRACE ID: T18H548-04

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
B-60-CF	8/21/18 6:33	twb	8/21/18 19:29

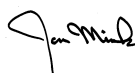
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.18 mg/L	1.3	8/27/18 12:39	8/28/18 11:53	jbb	EPA 200.8 Rev. 5.4
Lead	0.029 mg/L	0.015	8/27/18 12:39	8/28/18 11:53	jbb	EPA 200.8 Rev. 5.4

TRACE ID: T18H548-05

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>
B-68-CF	8/21/18 6:34	twb	8/21/18 19:29

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.46 mg/L	1.3	8/27/18 12:39	8/28/18 11:54	jbb	EPA 200.8 Rev. 5.4
Lead	0.012 mg/L	0.015	8/27/18 12:39	8/28/18 11:54	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.



Jon Mink
 Senior Project Manager

Birmingham Schools Fixture Inventory

Page 1 of 1

Building: **Bingham Farms**

Date Collected: 8-21-18
 Sampler's Initials: TWIS

Trace ID: T18HS48
 Logged by: [Signature]
 Checked by: [Signature]

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	6:30	B-46-CF	Rm 6	3345/46	Y	Br, Cu	
2	6:31	B-52-CF	Rm 9	3351/52	Y	Br, Cu	
3	6:32	B-58-CF	Rm 10	3355/56	Y	Br, Cu	
4	6:33	B-60-CF	Rm 11	3357/58	Y	Br, Cu	
5	6:34	B-68-CF	Rm 15	3365	Y	Br, Cu	

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

Cu= Copper
 G= Galvanized
 P= Plastic
 SS= Stainless Steel

Released by: [Signature]

Received by: [Signature]

Date: 8/21/18 Time: 19:29

SAMPLE LOG IN CHECKLIST

Trace ID #: T18 HS48 Date: 8/21/18 Package Description: Cooler Temperature: 21.6
 Client Name: Birmingham Schools Time: 19:29 Logged in by: dl

Cooler Receipt

Cooler/samples delivered by: Trace courier Hand delivered Commercial courier Name of delivery person: _____
 UPS FED EX US Mail

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

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 = -0.8°C
 Representative Sample Temperature: 21.1 °C (check one below)
 Temp Blank (Stick Thermometer)
 Client Sample (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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	See Below* pH will be verified at the time of the turbidity check.
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: HC731452 pH 11.0-13.0 Lot: HC600691
 Other: _____