

State of Michigan Laboratory ID: 8001

August 23, 2017

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

✓ PPTX

PROJECT: Groves

TRACE ID: T17H233-01

Sample Point Description *Collected* *Collected By* *Received at Laboratory*
 G-57-CF 8/10/17 8:40 twb 8/11/17 9:39

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.50 mg/L	1.3	8/14/17 17:11	8/22/17 12:49	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/14/17 17:11	8/21/17 18:35	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17H233-02

ROOM E-3 (CHICAGO)

Sample Point Description *Collected* *Collected By* *Received at Laboratory*
 G-74-CF 8/10/17 8:35 twb 8/11/17 9:39

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	3.0 mg/L	1.3	8/14/17 17:11	8/22/17 12:52	dtm	EPA 200.8 Rev. 5.4
Lead	0.0023 mg/L	0.015	8/14/17 17:11	8/21/17 18:37	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17H233-03

Sample Point Description *Collected* *Collected By* *Received at Laboratory*
 G-90-CF 8/10/17 8:38 twb 8/11/17 9:39

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.51 mg/L	1.3	8/14/17 17:11	8/21/17 18:40	dtm	EPA 200.8 Rev. 5.4
Lead	0.0023 mg/L	0.015	8/14/17 17:11	8/21/17 18:40	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

Jon Mink
 Senior Project Manager

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TRACE ID: T17H233-04

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
G-101-CF		8/10/17	8:33	twb		8/11/17 9:39	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.59 mg/L	1.3	8/14/17 17:11	8/22/17 12:55	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	8/14/17 17:11	8/21/17 18:42	dtm	EPA 200.8 Rev. 5.4	

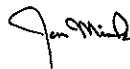
TRACE ID: T17H233-05

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
G-129-CF		8/10/17	8:32	twb		8/11/17 9:39	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.51 mg/L	1.3	8/14/17 17:11	8/21/17 18:44	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	8/14/17 17:11	8/21/17 18:44	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17H233-06

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
G-131-CF		8/10/17	8:30	twb		8/11/17 9:39	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	1.2 mg/L	1.3	8/14/17 17:11	8/22/17 12:57	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0046 mg/L	0.015	8/14/17 17:11	8/21/17 18:47	dtm	EPA 200.8 Rev. 5.4	

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TRACE ID: T17H233-07 *Room E-S (DEF CLICAW)*

Sample Point Description	Collected	Collected By	Received at Laboratory
G-156-CF	8/10/17 8:27	twb	8/11/17 9:39

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	2.6 mg/L	1.3	8/14/17 17:11	8/22/17 13:00	dtm	EPA 200.8 Rev. 5.4
Lead	0.012 mg/L	0.015	8/14/17 17:11	8/21/17 18:49	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17H233-08

Sample Point Description	Collected	Collected By	Received at Laboratory
G-157-CF	8/10/17 8:25	twb	8/11/17 9:39

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.52 mg/L	1.3	8/14/17 17:11	8/21/17 18:59	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/14/17 17:11	8/21/17 18:59	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17H233-09

Sample Point Description	Collected	Collected By	Received at Laboratory
G-176-CF	8/10/17 8:42	twb	8/11/17 9:39

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.88 mg/L	1.3	8/14/17 17:11	8/22/17 13:03	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	8/14/17 17:11	8/21/17 19:01	dtm	EPA 200.8 Rev. 5.4

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Jon Mink

Jon Mink
 Senior Project Manager

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Birmingham, MI 48009

PROJECT: Groves

TRACE ID: T17H233-10

<i>Sample Point Description</i>	<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
G-214-DF	8/10/17	8:20	twb		8/11/17 9:39	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.14 mg/L	1.3	8/14/17 17:11	8/21/17 19:04	dtm	EPA 200.8 Rev. 5.4
Lead	0.0030 mg/L	0.015	8/14/17 17:11	8/21/17 19:04	dtm	EPA 200.8 Rev. 5.4

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A handwritten signature in black ink, appearing to read "Jon Mink".

Jon Mink
Senior Project Manager

Birmingham Schools Fixture Inventory

Page 1 of 1

Building: Groves

Date Collected: 8-10-17
 Sampler's Initials: TWB

Trace ID: T17H233
 Logged by: JS
 Checked by: EL

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	8:40	G-57-CF	E1 Teacher	2969	Y	Br, Cu	
2	8:35	G-74-CF	E3 Teacher	2982	Y	Br, Cu	
3	8:38	G-90-CF	E2-Front	2992/93	Y	Br, Cu	
4	8:37	G-101-CF	E8	3007/08	Y	Br, Cu	
5	8:32	G-129-CF	E7	3036/37	Y	Br, Cu	
6	8:30	G-131-CF	E6	3040/3041	Y	Br, Cu	
7	8:27	G-156-CF	E5 Lab	3071	Y	Unknown	
8	8:25	G-157-CF	E4 Lab- Teacher's Slnk	3072	Y	Unknown	
9	8:42	G-176-CF	E9 Lab Teacher Slnk	3087	Y	Unknown	
10	8:20	G-214-DF	By D1-Right	3112	N	Unknown	

Abbreviations:

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

Connecting Plumbing:

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

Released by: TWB

Received by: EL

Date: 8/10/17 Time: 9:39

SAMPLE LOG IN CHECKLIST

Trace ID #: THA233 Date: 8/11/17 Package Description: Coder Temperature: 22.3
 Client Name: Birmingham - Groves Time: 9:37 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier Hand delivered Commercial courier Name of delivery person: Tim Brewer

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 = -0.8°C
 •IR Thermometer CF = -0.4°C

Representative Sample Temperature: 22.3 °C (check one below)
 Temp Blank (Stick Thermometer)
 Client Sample (IR Thermometer)

Melt Water: None °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 checked="" 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 0/21/16 AY
 Lot: HC547328 verified 04/03/17 JS