



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: Groves

TRACE ID: T17E284-01

Sample Point Description	Collected	Collected By	Received at Laboratory			
G-48-BF	5/13/17 10:27	twb	5/15/17 8:55			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.080 mg/L	1.3	5/17/17 13:18	5/19/17 13:51	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	5/17/17 13:18	5/19/17 13:51	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E284-02

Sample Point Description	Collected	Collected By	Received at Laboratory			
G-213-DF	5/13/17 10:30	twb	5/15/17 8:55			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.36 mg/L	1.3	5/17/17 13:18	5/19/17 13:53	dtm	EPA 200.8 Rev. 5.4
Lead	0.0017 mg/L	0.015	5/17/17 13:18	5/19/17 13:53	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T17E284-03

Sample Point Description	Collected	Collected By	Received at Laboratory			
G-214-DF	5/13/17 10:30	twb	5/15/17 8:55			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.28 mg/L	1.3	5/17/17 13:18	5/19/17 13:56	dtm	EPA 200.8 Rev. 5.4
Lead	0.049 mg/L	0.015	5/17/17 13:18	5/19/17 13:56	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



phone 231.773.5998
 toll-free 800.733.5998
 fax 231.773.6537

Trace Analytical Laboratories, Inc.
 2241 Black Creek Road
 Muskegon, MI 49444-2673
 info@trace-labs.com
 www.trace-labs.com

Birmingham Schools Fixture Inventory

Building: Groves

Date Collected: 5/13/17
 Sampler's initials: FWG

Trace ID: T17E284
 Logged by: AW
 Checked by: GD

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
40		G-40-EW	C4 Dark Room	2948	Y	Br, Cu	
41		G-41-CF	Little Theater Boy's Dressing Rm	2449/50	Y	P,Br, Cu	
42		G-42-CF	Little Theater Girl's Dressing Rm	2951/52	Y	P,Br, Cu	
43		G-43-DF	Hall by D6	2953	N	Unknown	
44		G-44-DS	Custodial Rm by D6	2954	N	Unknown	
45		G-45-CF	Media Storage	2955	Y	Br, Cu	
46		G-46-BF	Women's by D 8- Left	2956	Y	Br, Cu	
47		G-47-BF	Women's by D 8- Middle	2956	Y	Br, Cu	
48	10:27	G-48-BF	Women's by D 8- Right	2956	Y	Br, Cu	
49		G-49-DF	Hall by D 8	2957	N	Unknown	
50		G-50-BF	D 11- Left	2958	Y	P,Br, Cu,	
51		G-51-BF	D 11- Right	2958	Y	P,Br, Cu	
52		G-52-CF	D 11	2959/60	Y	Br, Cu	
53		G-53-CF	D 10 by Phone	2961/62	Y	Br, Cu	
54		G-54-CF	D 10	2963/64	Y	Br, Cu	
55		G-55-CF	D 12 Lower	2965/66	Y	Br, Cu	
56		G-56-CF	D 12 Upper	2967/68	Y	Br, Cu	
57		G-57-CF	E1 Teacher	2969	Y	Br, Cu	
58		G-58-CF	E1-3-Left	2970	Y	Br, Cu	
59		G-59-CF	E1-3-Right	2970	Y	Br, Cu	
60		G-60-CF	E1-7-Left	2971	Y	Br, Cu	
61		G-61-CF	E1-7-Right	2971	Y	Br, Cu	
62		G-62-CF	E1-2-Left	2972	Y	Br, Cu	
63		G-63-CF	E1-2-Right	2972	Y	Br, Cu	
64		G-64-CF	E1-6-Left	2974	Y	Br, Cu	
65		G-65-CF	E1-6-Right	2974	Y	Br, Cu	
66		G-66-CF	E1-5-Left	2975	Y	Br, Cu	
67		G-67-CF	E1-5-Right	2975	Y	Br, Cu	
68		G-68-CF	E1-1-Left	2976	Y	Br, Cu	
69		G-69-CF	E1-1-Right	2976	Y	Br, Cu	
70		G-70-CF	E1-4-Left	2977	Y	Br, Cu	
71		G-71-CF	E1-4-Right	2977	Y	Br, Cu	
72		G-72-CF	E1 Backwall	2978/79	Y	Br, Cu	
73		G-73-CF	E1 Prep Room	2980/81	Y	Br, Cu	
74		G-74-CF	E3 Teacher	2982	Y	Br, Cu	
75		G-75-CF	E3-1-Left	2983	Y	Br, Cu	
76		G-76-CF	E3-1-Right	2983	Y	Br, Cu	
77		G-77-CF	E3-2-Left	2984	Y	Br, Cu	
78		G-78-CF	E3-2-Right	2984	Y	Br, Cu	

Released by: [Signature]

Received by: [Signature]

Date: 5/15/17 Time: 8:55



phone 231.773.5998
 toll-free 800.733.5998
 fax 231.773.6537

Trace Analytical Laboratories, Inc.
 2241 Black Creek Road
 Muskegon, MI 49444-2673
 info@trace-labs.com
 www.trace-labs.com

Birmingham Schools Fixture Inventory

Building: Groves

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

Trace ID: T17E284
 Logged by: STL
 Checked by: CH

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
		G-202-BF	Men's- Staff- Right	3105	Y	Br, Cu	
		G-203-BF	Men's-Staff- Left	3105	Y	Br, Cu	
		G-204-BF	Women's-Staff-Right	3106	Y	Br, Cu	
		G-205-BF	Women's-Staff- Left	3106	Y	Br, Cu	
		G-206-KF	Staff Lounge	3107/08	Y	Br, Cu	
		G-207-DS	Custodial across D1	3109	N	Unknown	
		G-208-BF	Women's by D1-Left	3110	Y	Br, Cu	
		G-209-BF	Women's by D1-Middle	3110	Y	Br, Cu	
		G-210-BF	Women's by D1-Right	3110	Y	Br, Cu	
		G-211-BF	Men's by D1-Left	3111	Y	Br, Cu	
		G-212-BF	Men's by D1-Right	3111	Y	Br, Cu	
	② 10:30	G-213-DF	By D1-Left	3112	N	Unknown	
	③ 10:30	G-214-DF	By D1-Right	3112	N	Unknown	
		G-215-DS	Custodial by D1	3113	N	Unknown	
		G-216-DF	By Main Office-Left	3114	N	Unknown	
		G-217-DF	By Main Office-Right	3115	N	Unknown	
		G-218-DS	Custodial by Main Office	3116	N	Unknown	
		G-219-BF	Main Office Restroom	3117	Y	Br, Cu	
		G-220-BF	Main Office- Unisex	3118	Y	Br, Cu	
		G-221-HS	Snack Room	3119	Y	Br, Cu	
		G-222-HS	Kitchen Hansink-1	3120	Y	Br, Cu	
		G-223-KF	Kitchen Serving Line	3121/22	Y	Br, Cu	
		G-224-KF	Kitchen- Warming Trays-1	3123	Y	Br, Cu	
		G-225-KF	Kitchen-Warming Trays-2	3124	Y	Br, Cu	
		G-226-HS	Kitchen Serving Line-2	3125	Y	Br, Cu	
		G-227-HS	Kitchen Serving Line-3	3126	Y	Br, Cu	
		G-228-KF	Kitchen Island	3127	Y	Br, Cu	
		G-229-KF	Kitchen Steam Kettle	3128	N	Br, Cu	
		G-230-KF	Kitchen Triple Sink- Left	3129/30	N	Br, Cu	
		G-231-KF	Kitchen Triple Sink-Middle	3129/30	N	Br, Cu	
		G-232-KF	Kitchen Triple Sink- Right	3129/30	N	Br, Cu	
		G-233-HS	Kitchen #4	3131	Y	Br, Cu	
		G-234-DS	Kitchen Custodial Rm	3132	N	Unknown	
		G-235-BF	Kitchen Restroom	3133	Y	Br, Cu	
		G-236-DS	Boiler Rm	3134	N	Unknown	
		G-237-EW	Boiler Rm	3134	Y	Unknown	
		G-238-CF	A2	3135/36	Y	Br, Cu	
		G-239-CF	A3 -1	3137/38	Y	Br, Cu	
		G-240-CF	A3 -2	3139/40	Y	Br, Cu	
		G-241-EW	A3- Eyewash	3139/40	Y	Br, Cu	
		G-242-CF	A6	3141/42	Y	Br, Cu	

Released by: [Signature]

Received by: [Signature]

Date: 5/15/17 Time: 8:55



the science of compliance

phone 231.773.5998
 toll-free 800.733.5998
 fax 231.773.6537

Trace Analytical Laboratories, Inc.
 2241 Black Creek Road
 Muskegon, MI 49444-2673
 info@trace-labs.com
 www.trace-labs.com

GROVES

SAMPLE LOG IN CHECKLIST

Trace ID #: T17E284 Date: 5-15-17 Package Description: Cooler Temperature: 19.3
 Client Name: Birmingham Time: 8:55 Logged in by: MLL

Cooler Receipt

Cooler/samples delivered by: Trace courier
 Name of delivery person: _____
 Hand delivered
 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: 19.2-19.3 °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 VOA's?	<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: HC847328
 Other: _____
 Lot: HC563733 verified 6/21/16 AY
 Lot: HC574761 verified 04/03/17 JS