



phone 231.773.5998  
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Trace Analytical Laboratories, Inc.  
 2241 Black Creek Road  
 Muskegon, MI 49444-2673  
 info@trace-labs.com  
 www.trace-labs.com

State of Michigan Laboratory ID: 8001

February 10, 2017

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

PROJECT: Pierce Resampling

TRACE ID: T17A432-01

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-13-BF		1/28/17	7:02	twb/eb		1/30/17	8:47
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.33 mg/L	1.3	1/31/17 11:51	2/3/17 17:11	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	1/31/17 11:51	2/3/17 17:11	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17A432-02

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-14-BF		1/28/17	7:04	twb/eb		1/30/17	8:47
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.25 mg/L	1.3	1/31/17 11:51	2/3/17 17:14	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	1/31/17 11:51	2/3/17 17:14	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17A432-03

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-18-CF		1/28/17	7:06	twb/eb		1/30/17	8:47
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.48 mg/L	1.3	1/31/17 11:51	2/3/17 17:16	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0064 mg/L	0.015	1/31/17 11:51	2/3/17 17:16	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: Pierce Resampling**

**TRACE ID: T17A432-04**

**Sample Point Description**                      **Collected**                      **Collected By**                      **Received at Laboratory**  
 P-25-BF                                      1/28/17 7:08                      twb/eb                                      1/30/17 8:47

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.15 mg/L	1.3	1/31/17 11:51	2/3/17 17:19	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	1/31/17 11:51	2/3/17 17:19	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T17A432-05**

**Sample Point Description**                      **Collected**                      **Collected By**                      **Received at Laboratory**  
 P-42-CF                                      1/28/17 7:10                      twb/eb                                      1/30/17 8:47

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.55 mg/L	1.3	1/31/17 11:51	2/3/17 17:22	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	1/31/17 11:51	2/3/17 17:22	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T17A432-06**

**Sample Point Description**                      **Collected**                      **Collected By**                      **Received at Laboratory**  
 P-50-BF                                      1/28/17 7:12                      twb/eb                                      1/30/17 8:47

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.35 mg/L	1.3	1/31/17 11:51	2/3/17 17:24	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	1/31/17 11:51	2/3/17 17:24	dtm	EPA 200.8 Rev. 5.4

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PROJECT: Pierce Resampling

TRACE ID: T17A432-07

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-56-BF		1/28/17	7:15	twb/eb		1/30/17	8:47
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	1.7 mg/L	1.3	2/7/17 11:04	2/7/17 17:50	dtm	EPA 200.8 Rev. 5.4	
Lead	0.097 mg/L	<b>0.015</b>	2/7/17 11:04	2/7/17 17:50	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17A432-08

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-61-BF		1/28/17	7:16	twb/eb		1/30/17	8:47
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.15 mg/L	1.3	1/31/17 11:53	2/3/17 17:33	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0021 mg/L	0.015	1/31/17 11:53	2/3/17 17:33	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17A432-09

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-79-BF		1/28/17	7:18	twb/eb		1/30/17	8:47
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.79 mg/L	1.3	1/31/17 11:53	2/3/17 17:46	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	1/31/17 11:53	2/3/17 17:46	dtm	EPA 200.8 Rev. 5.4	

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**PROJECT: Pierce Resampling**

**TRACE ID: T17A432-10**

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>		<i>Received at Laboratory</i>		
P-84-BF	1/28/17 7:19	twb/eb		1/30/17 8:47		
<b>Metals, Total</b>	<b>RESULT</b>	<b>* MCL</b>	<b>PREPARED</b>	<b>ANALYZED</b>	<b>BY</b>	<b>METHOD</b>
Copper	0.89 mg/L	1.3	1/31/17 11:53	2/3/17 17:49	dtm	EPA 200.8 Rev. 5.4
Lead	0.010 mg/L	0.015	1/31/17 11:53	2/3/17 17:49	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T17A432-11**

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>		<i>Received at Laboratory</i>		
P-85-CF	1/28/17 7:20	twb/eb		1/30/17 8:47		
<b>Metals, Total</b>	<b>RESULT</b>	<b>* MCL</b>	<b>PREPARED</b>	<b>ANALYZED</b>	<b>BY</b>	<b>METHOD</b>
Copper	0.36 mg/L	1.3	1/31/17 11:53	2/3/17 17:51	dtm	EPA 200.8 Rev. 5.4
Lead	0.0015 mg/L	0.015	1/31/17 11:53	2/3/17 17:51	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T17A432-12**

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>		<i>Received at Laboratory</i>		
P-91-CF	1/28/17 8:32	twb/eb		1/30/17 8:47		
<b>Metals, Total</b>	<b>RESULT</b>	<b>* MCL</b>	<b>PREPARED</b>	<b>ANALYZED</b>	<b>BY</b>	<b>METHOD</b>
Copper	0.26 mg/L	1.3	1/31/17 11:53	2/3/17 17:54	dtm	EPA 200.8 Rev. 5.4
Lead	0.0043 mg/L	0.015	1/31/17 11:53	2/3/17 17:54	dtm	EPA 200.8 Rev. 5.4

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 Senior Project Manager

### SAMPLE LOG IN CHECKLIST

Trace ID #: TP7A432 Date: 1/30/17 Package Description: Cooler Temperature: 14.0  
 Client Name: Birmingham Pierce Time: 8:47 Logged In by: JS

#### Cooler Receipt

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

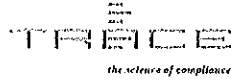
Cooler Temperature  
 Correction Factors: •Digital Stick Thermometer CF = -1.0°C  
 •Thermocouple CF = -1.0°C  
 Temperature Blank: None °C (Digital Stick Thermometer)  
 Range of 3 samples: 13.2-13.4 °C (Thermocouple)  
 Melt Water: None °C (Use Digital Stick Thermometer)

	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 Lot: HC563733  pH 11.0-13.0 Lot: HC647328  
 Other: \_\_\_\_\_  
 Lot: HC563733 verified 6/21/16 AY  
 Lot: HC647328 verified 6/30/16 AY

4 of 4



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TTA403<sup>32</sup>  
 35  
 1/31/17

Birmingham Schools Chain-of-Custody Record Page 4 of 7

Sample ID: Pierce Date Collected: 1/27/17 Trace ID: TTA403  
 Sampler's initials: AS/RL/FRB Logged by: AS  
 Checked by: CR

12 SA 8:32  
 13 SA 8:28  
 14 SA 8:30  
 SS  
 HHL17

Vial No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
87	7:42	B4 KF	CLINIC	213/21	Y	By Lin	
88	7:56	90 CF	Rm 106	213/20/23	Y	"	
91	7:57	91 CF	Rm 105 A	213/24	Y	"	
92	8:07	92 CF	Rm 104	213/22	Y	"	
93	8:03	93 CF	Rm 103	213/21	Y	"	
94	8:03	94 B	"	"	Y	"	
95	8:15	95 CF	Rm 206	213/25	Y	"	
96	8:19	96 DS	custodial by 217	213/6	Y	"	
97	8:20	A1	assembly sign				Redwiny
98	8:21	A2					
99	8:22	A3					
100	8:23	A4					
101	8:24	A5					
102	8:25	A6					
103	8:26	A7					
104	8:27	A8					
105	8:28	A9					
106	8:29	A10					
107	8:30	B1	Midway River				Rm 108
108	42	B2					
109	43	B3					
110	44	B4					
111	45	B5					
112	46	B6					
113	47	B7					
114	48	B8					
115	49	B9					
116	50	B10					
117	51	C1	End Point				analyze
118	52	C2					analyze
119	53	C3					Rm 218
120	54	C4					
121	55	C5					
122	56	C6					
123	57	C7					
124	58	C8					

Released by: [Signature] Received by: [Signature] Date: 1/30/17 Time: 7:40

1/28/17  
 Released: [Signature] Received by: [Signature] 1/30/17 @ 8:47



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**Birmingham Schools Fixture Inventory**

Page 3 of 4  
of 31

Building: Pierce

Date Collected: \_\_\_\_\_

Trace ID: TT-14103 32

Sampler's Initials: \_\_\_\_\_

Logged by: JS

Checked by: ET

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
<del>79</del> 79	<del>7:18</del> 7:18	P-79-BF	Girl's by 216-Left	3534	Y	Br, Cu	
<del>80</del> 80		P-80-BF	Girl's by 216- Middle	3534	Y	Br, Cu	
81		P-81-BF	Girl's by 216- Right	3534	Y	Br, Cu	
82		P-82-BF	Boy's by 216- Left	3435	Y	Br, Cu	
83		P-83-BF	Boy's by 216- Middle	3435	Y	Br, Cu	
<del>84</del> 84	<del>7:19</del> 7:19	P-84-BF	Boy's by 216- Right	3435	Y	Br, Cu	
<del>85</del> 85	<del>7:20</del> 7:20	P-85-CF	Rm 218	3436/37	Y	Br, Cu	
<del>86</del> 86		P-86-B	Rm 218	3436/37	N	Br, Cu	
87		P-87-DS	Custodial by 218	3538	N	Unknown	
88		P-88-DF	Playground	3539	N	Unknown	

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: 1/30/17 Time: 8:47

## Birmingham Schools Fixture Inventory

Page 2 of 4

Building: Pierce

Date Collected: \_\_\_\_\_

Trace ID: T17A40332

Sampler's Initials: \_\_\_\_\_

Logged by: JS

Checked by: E/H

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
40		P-40-KF	Media Workroom	3500/01	Y	Br, Cu	
41		P-41-DF	Hall by 105	3502	N	Unknown	
42	7:10	P-42-CF	Rm 105	3503	Y	Br, Cu	
43		P-43-BF	Girls by 105-Left	3504	N	Br, Cu	
44		P-44-BF	Girls by 105-Right	3504	Y	Br, Cu	
45		P-45-BF	Unisex by 105	3505	Y	Br, Cu	
46		P-46-BF	Boy's by 105-Left	3506	Y	Br, Cu	
47		P-47-BF	Boy's by 105-Right	3506	Y	Br, Cu	
48		P-48-DS	Custodial by 105	3507	N	Unknown	
49		P-49-DF	Hall by 103	3508	N	Unknown	
50	7:12	P-50-DF	Rm 101	3509	N	Unknown	
51		P-51-DF	Hall by 201	3510	N	Unknown	
52		P-52-CF	Rm 202	3511	Y	Br, Cu	
53		P-53-B	Rm 202	3511	N	Br, Cu	
54		P-54-CF	Rm 201- Art	3512/13	Y	Br, Cu	
55		P-55-CF	Rm 201- Art	3512/13	Y	Br, Cu	
56	7:15	P-56-BF	Boy's by 205-Left	3514	Y	Br, Cu	
57		P-57-BF	Boy's by 205-Right	3514	Y	Br, Cu	
58		P-58-DS	Custodial by 205	3515	N	Unknown	
59		P-59-BF	Unisex by 205	3516	Y	Br, Cu	
60		P-60-BF	Girl's by 205-Left	3517	Y	Br, Cu	
61	7:16	P-61-BF	Girl's by 205-Right	3517	Y	Br, Cu	
62		P-62-DF	Hall by 205	3518	N	Unknown	
63		P-63-DF	Hall 212	3519	N	Unknown	
64		P-64-BF	Boy's by 212- Left	3520	Y	Br, Cu	
65		P-65-BF	Boy's by 212-Right	3520	Y	Br, Cu	
66		P-66-BF	Girl's by 212-Left	3521	Y	Br, Cu	
67		P-67-BF	Girl's by 212- Right	3521	Y	Br, Cu	
68		P-68-BF	Staff by 212	3522	Y	Br, Cu	
69		P-69-CF	Rm 213	3523/24	Y	Br, Cu	
70		P-70-DF	Hall by 213	3425	N	Br, Cu	
71		P-71-CF	Rm 214	3526	Y	Br, Cu	
72		P-72-CF	Rm 215	3527/28	N	Br, Cu	
73		P-73-B	Rm 215	3527/28	Y	Br, Cu	
74		P-74-CF	Rm 216	3529/30	Y	Br, Cu	
75		P-75-B	Rm 216	3529/30	N	Br, Cu	
76		P-76-BF	Staff by 215	3531	Y	Br, Cu	
77		P-77-BF	Rm 217	3532/33	Y	Br, Cu	
78		P-78-B	Rm 217	3532/33	N	Br, Cu	

Released by: [Signature]

Received by: [Signature]

Date: 1/30/17 Time: 8:47



## Birmingham Schools Fixture Inventory

Page 1 of 4

g: Pierce

Date Collected: 1/28/17

Trace ID: T17A4832

Sampler's Initials: TAB/EB

Logged by: ES

Checked by: EH

\* Resampling \* Qty: 14

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1		P-01-DS	Receiving	3467	N	Unknown	
2		P-02-DS	Boiler Rm	3468	N	Unknown	
3		P-03-KF	Kitchen-Deep Sink	3469/70	Y	Br, Cu	
4		P-04-HS	Kitchen- Handsink	3471	Y	Br, Cu	
5		P-05-KF	Kitchen Triple Sink-Left	3472/73	Y	Br, Cu	
6		P-06-KF	Kitchen Triple Sink-Middle	3472/73	Y	Br, Cu	
7		P-07-KF	Kitchen Triple Sink-Right	3472/73	Y	Br, Cu	
8		P-08-DF	Admin. Hall	3474	N	Unknown	
9		P-09-Bottle	Admin. Hall	3474	N	Unknown	
10		P-10-BF	Boy's Admin Hall-Left	3475	Y	Br, Cu	
11		P-11-BF	Boy's Admin Hall-Right	3475	Y	Br, Cu	
12		P-12-BF	Girl's Admin Hall- Left	3476	Y	Br, Cu	
13	7:02	P-13-BF	Girl's Admin hall- Right	3476	Y	Br, Cu	
14	7:04	P-14-BF	Office Clinic	3477	Y	Br, Cu	
15		P-15-KF	Teacher's Lounge	3478/79	Y	Br, Cu	
16		P-16-Coffee	Teacher's Lounge	3480	N	Br, Cu	
17		P-17-BF	Rm 113	3482	Y	Br, Cu	
18	7:06	P-18-CF	Rm 113	3483	Y	Br, Cu	
19		P-19-B	Rm 113	3483	N	Br, Cu	
20		P-20-CF	Rm 112	3484/85	Y	Br, Cu	
21		P-21-B	Rm 112	3484/85	N	Br, Cu	
22		P-22-BF	Rm 112	3486	Y	Br, Cu	
23		P-23-CF	Rm 111	3487/88	Y	Br, Cu	
24		P-24-B	Rm 111	3487/88	N	Br, Cu	
25	7:08	P-25-BF	Rm 111	3489	Y	Br, Cu	
26		P-26-CF	Rm 110	3490	Y	Br, Cu	
27		P-27-B	Rm 110	3490	N	Br, Cu	
28		P-28-DF	Outside 109-Left	3491	N	Unknown	
29		P-29-DF	Outside 109-Right	3491	N	Unknown	
30		P-30-CF	Rm 109	3492	Y	Br, Cu	
31		P-31-BF	Girls by 109- Left	3493	Y	Br, Cu	
32		P-32-BF	Girls by 109-Right	3493	Y	Br, Cu	
33		P-33-DS	Custodial by 109	3494	N	Unknown	
34		P-34-BF	Unisex by 109	3495	Y	Br, Cu	
35		P-35-BF	Boys by 109-Left	3496	Y	Br, Cu	
36		P-36-BF	Boys by 109-Right	3496	Y	Br, Cu	
37		P-37-CF	Rm 108	3497/98	Y	Br, Cu	
38		P-38-B	Rm 108	3497/98	N	Br, Cu	
39		P-39-DF	Hall by 107	3499	N	Br, Cu	

Released by: Tom Ben

Received by: ES

Date: 1/30/17 Time: 8:47



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February 10, 2017

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

**PROJECT: Pierce Resampling**

TRACE ID: T17A432-13

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
P-93-CF		1/28/17	8:28	twb/eb		1/30/17	8:47
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.54 mg/L	1.3	1/31/17 11:53	2/3/17 17:57	dtm	EPA 200.8 Rev. 5.4	
Lead	0.13 mg/L	<b>0.015</b>	1/31/17 11:53	2/3/17 17:57	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T17A432-14

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
P-95-CF		1/28/17	8:30	twb/eb		1/30/17	8:47
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	2.1 mg/L	1.3	1/31/17 11:53	2/4/17 12:52	dtm	EPA 200.8 Rev. 5.4	
Lead	0.27 mg/L	<b>0.015</b>	1/31/17 11:53	2/3/17 17:59	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