



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

State of Michigan Laboratory ID: 8001

February 10, 2017

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

*Bingham Farms*

PROJECT: Bingham Farms

TRACE ID: T16L105-43

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-43-DF	12/4/16 10:27	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.11 mg/L	1.3	12/9/16 13:57	1/27/17 17:01	dtm	EPA 200.8 Rev. 5.4
Lead	0.0016 mg/L	0.015	12/9/16 13:57	1/27/17 17:01	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-44

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-44-CF	12/4/16 10:27	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.35 mg/L	1.3	12/9/16 13:57	1/27/17 17:03	dtm	EPA 200.8 Rev. 5.4
Lead	0.022 mg/L	0.015	12/9/16 13:57	1/27/17 17:03	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-45

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-45-B	12/4/16 10:27	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.048 mg/L	1.3	12/9/16 13:57	1/27/17 17:06	dtm	EPA 200.8 Rev. 5.4
Lead	0.0061 mg/L	0.015	12/9/16 13:57	1/27/17 17:06	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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PROJECT: Bingham Farms

TRACE ID: T16L105-46

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-46-CF	12/4/16 10:28	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.39 mg/L	1.3	12/9/16 13:57	1/27/17 17:09	dtm	EPA 200.8 Rev. 5.4
Lead	0.0049 mg/L	0.015	12/9/16 13:57	1/27/17 17:09	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-47

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-47-B	12/4/16 10:28	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.30 mg/L	1.3	12/9/16 13:57	1/27/17 17:11	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	12/9/16 13:57	1/27/17 17:11	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-48

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-48-CF	12/4/16 10:28	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.50 mg/L	1.3	12/9/16 13:57	1/27/17 17:14	dtm	EPA 200.8 Rev. 5.4
Lead	0.0056 mg/L	0.015	12/9/16 13:57	1/27/17 17:14	dtm	EPA 200.8 Rev. 5.4

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PROJECT: Bingham Farms

TRACE ID: T16L105-52

Sample Point Description		Collected		Collected By		Received at Laboratory	
B-52-CF		12/4/16 10:28		eb/nws/js		12/8/16 16:00	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.15 mg/L	1.3	12/9/16 13:57	1/27/17 17:25	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0012 mg/L	0.015	12/9/16 13:57	1/27/17 17:25	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T16L105-53

Sample Point Description		Collected		Collected By		Received at Laboratory	
B-53-B		12/4/16 10:28		eb/nws/js		12/8/16 16:00	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.24 mg/L	1.3	12/9/16 13:57	1/27/17 17:36	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0030 mg/L	0.015	12/9/16 13:57	1/27/17 17:36	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T16L105-54

Sample Point Description		Collected		Collected By		Received at Laboratory	
B-54-DF		12/4/16 10:28		eb/nws/js		12/8/16 16:00	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.16 mg/L	1.3	12/9/16 13:59	1/27/17 17:44	dtm	EPA 200.8 Rev. 5.4	
Lead	0.030 mg/L	0.015	12/9/16 13:59	1/27/17 17:44	dtm	EPA 200.8 Rev. 5.4	

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**PROJECT: Bingham Farms**

TRACE ID: T16L105-49

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-49-B	12/4/16 10:28	eb/nws/jjs	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.20 mg/L	1.3	12/9/16 13:57	1/27/17 17:17	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	12/9/16 13:57	1/27/17 17:17	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-50

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-50-CF	12/4/16 10:28	eb/nws/jjs	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.30 mg/L	1.3	12/9/16 13:57	1/27/17 17:19	dtm	EPA 200.8 Rev. 5.4
Lead	0.0044 mg/L	0.015	12/9/16 13:57	1/27/17 17:19	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-51

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-51-B	12/4/16 10:28	eb/nws/jjs	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.13 mg/L	1.3	12/9/16 13:57	1/27/17 17:22	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	12/9/16 13:57	1/27/17 17:22	dtm	EPA 200.8 Rev. 5.4

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PROJECT: Bingham Farms

TRACE ID: T16L105-61

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-61-B	12/4/16 10:33	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.12 mg/L	1.3	12/9/16 13:59	1/27/17 18:10	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	12/9/16 13:59	1/27/17 18:10	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-62

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-62-CF	12/4/16 10:33	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.14 mg/L	1.3	12/9/16 13:59	1/27/17 18:13	dtm	EPA 200.8 Rev. 5.4
Lead	0.0064 mg/L	0.015	12/9/16 13:59	1/27/17 18:13	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-63

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-63-B	12/4/16 10:33	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.35 mg/L	1.3	12/9/16 13:59	1/27/17 18:16	dtm	EPA 200.8 Rev. 5.4
Lead	0.015 mg/L	0.015	12/9/16 13:59	1/27/17 18:16	dtm	EPA 200.8 Rev. 5.4

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**PROJECT: Bingham Farms**

**TRACE ID: T16L105-64**

<i>Sample Point Description</i>	<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
B-64-CF	12/4/16	10:33	eb/nws/js		12/8/16 16:00	
<b>Metals, Total</b>	<b>RESULT</b>	<b>* MCL</b>	<b>PREPARED</b>	<b>ANALYZED</b>	<b>BY</b>	<b>METHOD</b>
Copper	0.14 mg/L	1.3	12/9/16 13:59	1/27/17 18:18	dtm	EPA 200.8 Rev. 5.4
Lead	0.0024 mg/L	0.015	12/9/16 13:59	1/27/17 18:18	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T16L105-65**

<i>Sample Point Description</i>	<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
B-65-B	12/4/16	10:33	eb/nws/js		12/8/16 16:00	
<b>Metals, Total</b>	<b>RESULT</b>	<b>* MCL</b>	<b>PREPARED</b>	<b>ANALYZED</b>	<b>BY</b>	<b>METHOD</b>
Copper	0.096 mg/L	1.3	12/9/16 13:59	1/27/17 18:21	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	12/9/16 13:59	1/27/17 18:21	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T16L105-66**

<i>Sample Point Description</i>	<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
B-66-CF	12/4/16	10:33	eb/nws/js		12/8/16 16:00	
<b>Metals, Total</b>	<b>RESULT</b>	<b>* MCL</b>	<b>PREPARED</b>	<b>ANALYZED</b>	<b>BY</b>	<b>METHOD</b>
Copper	0.15 mg/L	1.3	12/9/16 13:59	1/27/17 18:24	dtm	EPA 200.8 Rev. 5.4
Lead	0.027 mg/L	0.015	12/9/16 13:59	1/27/17 18:24	dtm	EPA 200.8 Rev. 5.4

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PROJECT: Bingham Farms

TRACE ID: T16L105-91

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-91-B	12/4/16 10:15	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.19 mg/L	1.3	12/9/16 14:01	1/28/17 15:46	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	12/9/16 14:01	1/28/17 15:46	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-92

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-92-BF	12/4/16 10:51	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.43 mg/L	1.3	12/9/16 14:01	1/28/17 15:49	dtm	EPA 200.8 Rev. 5.4
Lead	0.0087 mg/L	0.015	12/9/16 14:01	1/28/17 15:49	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16L105-93

Sample Point Description	Collected	Collected By	Received at Laboratory			
B-93-KF	12/4/16 10:52	eb/nws/js	12/8/16 16:00			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	2.4 mg/L	1.3	12/9/16 14:01	2/1/17 17:06	dtm	EPA 200.8 Rev. 5.4
Lead	0.11 mg/L	0.015	12/9/16 14:01	1/28/17 15:52	dtm	EPA 200.8 Rev. 5.4

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**PROJECT: Bingham Farms**

**TRACE ID: T16L105-94**

<b>Sample Point Description</b> B-94-DS	<b>Collected</b> 12/4/16 10:58	<b>Collected By</b> eb/nws/js	<b>Received at Laboratory</b> 12/8/16 16:00
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.026 mg/L	1.3	12/9/16 14:02	1/28/17 16:00	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	12/9/16 14:02	1/28/17 16:00	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T16L105-95**

<b>Sample Point Description</b> B-95-BF	<b>Collected</b> 12/4/16 10:55	<b>Collected By</b> eb/nws/js	<b>Received at Laboratory</b> 12/8/16 16:00
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.30 mg/L	1.3	12/9/16 14:02	1/28/17 16:13	dtm	EPA 200.8 Rev. 5.4
Lead	0.0041 mg/L	0.015	12/9/16 14:02	1/28/17 16:13	dtm	EPA 200.8 Rev. 5.4

**TRACE ID: T16L105-96**

<b>Sample Point Description</b> B-A-1	<b>Collected</b> 12/4/16 11:00	<b>Collected By</b> eb/nws/js	<b>Received at Laboratory</b> 12/8/16 16:00
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	12/9/16 14:02	1/28/17 16:16	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	12/9/16 14:02	1/28/17 16:16	dtm	EPA 200.8 Rev. 5.4

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**Birmingham Schools Fixture Inventory**

Page 1 of     

Building: **Bingham Farms**

Date Collected: 12/16/16  
 Sampler's Initials: EB/NWS/RS

Trace ID: T16L105  
 Logged by: JS  
 Checked by: EV

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	10:15	B-01-BF	Preschool	3305	Y	Br, Cu	
2		B-02-CF	Preschool - Right	3306/07	Y	Br, Cu	
3		B-03-B	Preschool- Left <i>Right</i>	3308/09	N	Br, Cu	
4	10:15	B-04-CF	Kindergarten B	3310/11	Y	Br, Cu	
5		B-05-B	Kindergarten B	3310/11	N	Br, Cu	
6		B-06-BF	Kindergarten B	3312/13	Y	Br, Cu	
7		B-07-CF	Kindergarten A	3314/15	Y	Br, Cu	
8		B-08-B	Kindergarten A	3314/15	N	Br, Cu	
9		B-09-BF	Kindergarten A	3316	Y	Br, Cu	
10		B-10-CF	Kindergarten C	3317/18	Y	Br, Cu	
11		B-11-B	Kindergarten C	3317/18	N	Br, Cu	
12		B-12-BF	Women's by C- Left	3319	Y	Br, Cu	
13		B-13-BF	Women's by C- Right	3319	Y	Br, Cu	
14		B-14-DF	By Kindergarten Rooms-Left	3320	N	Unknown	
15		B-15-DF	By Kindergarten Rooms-Right	3320	N	Unknown	
16		B-16-BF	Men's by Kindergarten C-Left	3321	Y	Br, Cu	
17		B-17-BF	Men's by Kindergarten C-Right	3321	Y	Br, Cu	
18		B-18-BF	Adult Restroom(Left) by Gym -	3322	Y	Br, Cu	
19		B-19-BF	Adult Restroom(Right) by Gym	3323	Y	Br, Cu	
20	10:20	B-20-DS	Custodial Rm-Gym	3324	N	Unknown	
21		B-21-Bottle	Gym	3325	N	Unknown	
22	10:22	B-22-DF	Gym	3325	N	Unknown	
23		B-23-CF	Music Rm	3326	Y	Br, Cu	
24		B-24-B	Music Rm	3326	N	Br, Cu	
25		B-25-DF	Hall by Art Rm- Left	3327	N	Unknown	
26		B-26-DF	Hall by Art Rm- Right	3327	N	Unknown	
27	10:25	B-27-CF	Art- Left	3328/29/30	Y	Br, Cu	
28	10:25	B-28-CF	Art- Right	3328/29/30	Y	Br, Cu	
29		B-29-BF	Women's by Art Rm- Left	3331	Y	Br, Cu	
30		B-30-BF	Women's by Art Rm- Right	3331	Y	Br, Cu	
31		B-31-CF	Rm 1	3332/3333	Y	Br, Cu	
32		B-32-B	Rm 1	3332/33	N	Br, Cu	
33		B-33-CF	Rm 2	3334/35	Y	Br, Cu	
34		B-34-B	Rm 2	3334/35	N	Br, Cu	
35		B-35-CF	Rm 3	3336/37	Y	Br, Cu	
36		B-36-B	Rm 3	3336/37	N	Br, Cu	
37		B-37-CF	Rm 4	3338/39	Y	Br, Cu	
38		B-38-B	Rm 4	3338/39	N	Br, Cu	
39	10:26	B-39-BF	Men's by Rm 5-Left	3340	Y	Br, Cu	
40		B-40-BF	Men's by Rm 5-Right	3340	Y	Br, Cu	
41		B-41-DS	Men's by Rm 5- Custodial	3341	N	Unknown	

Released by: \_\_\_\_\_

Received by: [Signature]

Date: 12/16 Time: 16:00



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**Birmingham Schools Fixture Inventory**

Page 2 of \_\_\_\_\_

Building: Bingham Farms

Date Collected: 12/4/16  
 Sampler's Initials: EB/NBS/JS

Trace ID: ITLL105  
 Logged by: JS  
 Checked by: EB

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
42	10:41	B-42-DF	By Rm 5- Left	3342	N	Unknown	
43		B-43-DF	By Rm 5- Right	3342	N	Unknown	
44		B-44-CF	Rm 5	3343/44	Y	Br, Cu	
45		B-45-B	Rm 5	3343/44	N	Br, Cu	
46	10:45	B-46-CF	Rm 6	3345/46	Y	Br, Cu	
47		B-47-B	Rm 6	3345/46	N	Br, Cu	
48		B-48-CF	Rm 7	3347/48	Y	Br, Cu	
49		B-49-B	Rm 7	3347/48	N	Br, Cu	
50		B-50-CF	Rm 8	3349/50	Y	Br, Cu	
51		B-51-B	Rm 8	3349/50	N	Br, Cu	
52		B-52-CF	Rm 9	3351/52	Y	Br, Cu	
53		B-53-B	Rm 9	3351/52	N	Unknown	
54		B-54-DF	By Rm 10-Left	3353	N	Unknown	
55		B-55-DF	By Rm 10-Right	3353	N	Br, Cu	
56	10:51	B-56-BF	Men's by Rm 10- Left	3354	Y	Br, Cu	
57		B-57-BF	Men's by Rm 10- Right	3354	Y	Br, Cu	
58	10:53	B-58-CF	Rm 10	3355/56	Y	Br, Cu	
59		B-59-B	Rm 10	3355/56	N	Br, Cu	
60		B-60-CF	Rm 11	3357/58	Y	Br, Cu	
61		B-61-B	Rm 11	3357/58	N	Br, Cu	
62		B-62-CF	Rm 12	3359/60	Y	Br, Cu	
63		B-63-B	Rm 12	3359/60	N	Br, Cu	
64		B-64-CF	Rm 13	3361/62	Y	Br, Cu	
65		B-65-B	Rm 13	3361/62	N	Br, Cu	
66		B-66-CF	Rm 14	3363/64	Y	Br, Cu	
67		B-67-B	Rm 14	3363/64	N	Br, Cu	
68	10:40	B-68-CF	Rm 15	3365	Y	Br, Cu	
69		B-69-B	Rm 15	3365	N	Br, Cu	
70		B-70-BF	Men's by Rm 15- Left	3366	Y	Br, Cu	
71		B-71-BF	Men's by Rm 15-Right	3366	Y	Br, Cu	
72	10:51	B-72-DS	Men's by Rm 15- Custodial	3367	N	Unknown	
73		B-73-Bottle	Main Office	3368	N	Unknown	
74		B-74-DF	Main Office-Right	3368	N	Unknown	
75		B-75-DF	Main Office- Left	3368	N	Unknown	
76	10:55	B-76-KF	Main Office Clinic	3369/70	Y	Br, Cu	
77		B-77-BF	Main Office Clinic	3371	Y	Br, Cu	
78		B-78-BF	Restroom by Main Office	3372	Y	Br, Cu	77 checked and certified
79		B-79-BF	Adult Restroom by Office B	3373	Y	Br, Cu	
80		B-80-BF	ASD Restroom	3374	Y	Br, Cu	
81	10:58	B-81-KF	Teacher's Lounge	3375/76	Y	Br, Cu	
82		B-82-CF	LRC/ASD Preschool	3377/78	Y	Br, Cu	

Released by: \_\_\_\_\_

Received by: [Signature]

Date: 12/9/16 Time: 16:00



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**Birmingham Schools Fixture Inventory**

Page 3 of     

Building: Bingham Farms

Date Collected: 12/1/16  
 Sampler's Initials: EB/MS/JS

Trace ID: T66105  
 Logged by: JS  
 Checked by: GD

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
83	10:51	B-83-B	LRC/ASD Preschool	3377/78	N	Br, Cu	
84	10:51	B-84-HS	Kitchen Handsink w/eyewash	3379	Y	Br, Cu	
85		B-85-CF	Kitchen-Triple Sink-Left	3380/81	Y	Br, Cu	
86		B-86-CF	Kitchen-Triple Sink-Right	3380/81	Y	Br, Cu	
87		B-87-HS	Kitchen-Handsink	3382	Y	Br, Cu	
88		B-88-CF	Kitchen-Deep Slnk	3383	Y	Br, Cu	
89		B-89-BF	Kitchen- Ladies	3384	Y	Br, Cu	

Released by: \_\_\_\_\_

Received by: [Signature]

Date: 12/8/16 Time: 16:00

## Birmingham Schools Chain-of-Custody Record

Page 4 of \_\_\_\_\_

Building: Birmingham  
Fairfax

Date Collected: 12/1/16  
 Sampler's Initials: EB/NWS/JS

Trace ID: TTGL105  
 Logged by: JS  
 Checked by: EB

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
90	10:15	90-CF	♻️ per school left				
91	↓	91-B	↓				
92	10:51	92-BF	Kitchen mess room				
93	10:52	93-BF	Custodial Office				
94	11:00	A-1	Restroom				
95		A-2					
96		A-3					
97		A-4					
98		A-5					
99		A-6					
AA		A-7					
AB		A-8					
AC		A-9					
AD		A-10					
AE		A-11					
AF		B-1	Teacher lounge				
AG		B-2					
AH		B-3					
AI		B-4					
AJ		B-5					
AK		B-6					
AL		B-7					
AM		B-8					
AN		B-9					
AO		B-10					
AP		C-1	CVL Co. furnace				
AQ		C-2					
AR		C-3					
AS		C-4					
AT		C-5					
AU		C-6					
AV		C-7					
AW		C-8					
AX		C-9					
AY		C-10					
94		94-BF	94-BF Room by custodian	10/5/8			Maybe sample 2x

Released by: \_\_\_\_\_ Received by: [Signature] Date: 12/8/16 Time: 16:00



the science of compliance

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### Birmingham Schools Chain-of-Custody Record Page 5 of 5

Building: Bingham Farms

Date Collected: 12/1/16  
Sampler's Initials: EB/NWS/JS

Trace ID: TGL105  
Logged by: JS  
Checked by: GH

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
	<u>10:55</u>	<u>95-83</u>	<u>Bathroom at girls workshop</u>				<u>XXXXXXXXXX</u> <u>Leak at 9808</u>

Released by: \_\_\_\_\_ Received by: [Signature] Date: 12/8/16 Time: 16:00

### SAMPLE LOG IN CHECKLIST

Trace ID #: T66-105 Date: 12/8/16 Package Description: Coolers Temperature: 20.0  
 Client Name: Birmingham - Benjamin Farms Time: 16:00 Logged In by: JS

#### Cooler Receipt

Cooler/samples delivered by: Trace courier  Hand delivered  Commercial courier  Name of delivery person: Evan Brewer  
 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 = -0.4°C  
 • IR Thermometer Glass CF = -0.1°  
 • IR Thermometer Plastic CF = +1.1°C  
 Temperature Blank: none °C (Digital Stick Thermometer)  
 Range of 3 samples: 20.0 °C (IR Plastic or IR Glass - Circle one)  
 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: HC647328  
 Other: \_\_\_\_\_  
 Lot: HC563733 verified 8/21/16 AY  
 Lot: HC647328 verified 8/30/16 AY