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State of Michigan Laboratory ID: 8001

January 12, 2017

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

PROJECT: Pierce

TRACE ID: T16K474-73

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-73-B	11/27/16 8:21	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.41 mg/L	1.3	11/29/16 12:01	1/6/17 22:35	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:01	1/6/17 22:35	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-74

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-74-CF	11/27/16 8:22	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.38 mg/L	1.3	11/29/16 12:01	1/6/17 22:37	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:01	1/6/17 22:37	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-75

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-75-B	11/27/16 8:22	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.22 mg/L	1.3	11/29/16 12:01	1/6/17 22:40	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:01	1/6/17 22:40	dtm	EPA 200.8 Rev. 5.4

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Jon Mink
 Senior Project Manager



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 2305 Cole Street
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PROJECT: Pierce

TRACE ID: T16K474-76

Sample Point Description P-76-BF	Collected 11/27/16 8:23	Collected By ns/eb/twb	Received at Laboratory 11/28/16 17:40
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.67 mg/L	1.3	11/29/16 12:01	1/6/17 22:43	dtm	EPA 200.8 Rev. 5.4
Lead	0.0016 mg/L	0.015	11/29/16 12:01	1/6/17 22:43	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-77

Sample Point Description P-77-BF	Collected 11/27/16 8:24	Collected By ns/eb/twb	Received at Laboratory 11/28/16 17:40
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.32 mg/L	1.3	11/29/16 12:01	1/6/17 22:46	dtm	EPA 200.8 Rev. 5.4
Lead	0.0043 mg/L	0.015	11/29/16 12:01	1/6/17 22:46	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-78

Sample Point Description P-78-B	Collected 11/27/16 8:24	Collected By ns/eb/twb	Received at Laboratory 11/28/16 17:40
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.21 mg/L	1.3	11/29/16 12:01	1/6/17 22:49	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:01	1/6/17 22:49	dtm	EPA 200.8 Rev. 5.4

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PROJECT: Pierce

TRACE ID: T16K474-79

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
P-79-BF		11/27/16	8:24	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	1.3 mg/L	1.3	11/29/16 12:01	1/9/17 14:06	d1m	EPA 200.8 Rev. 5.4	
Lead	0.0014 mg/L	0.015	11/29/16 12:01	1/6/17 23:01	d1m	EPA 200.8 Rev. 5.4	

TRACE ID: T16K474-80

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
P-80-BF		11/27/16	8:24	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	1.2 mg/L	1.3	11/29/16 12:01	1/9/17 14:08	d1m	EPA 200.8 Rev. 5.4	
Lead	0.0027 mg/L	0.015	11/29/16 12:01	1/6/17 23:04	d1m	EPA 200.8 Rev. 5.4	

TRACE ID: T16K474-81

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
P-81-BF		11/27/16	8:24	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.79 mg/L	1.3	11/29/16 12:02	1/6/17 23:13	d1m	EPA 200.8 Rev. 5.4	
Lead	0.0023 mg/L	0.015	11/29/16 12:02	1/6/17 23:13	d1m	EPA 200.8 Rev. 5.4	

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PROJECT: Pierce

TRACE ID: T16K474-82

<i>Sample Point Description</i> P-82-BF	<i>Collected</i> 11/27/16 8:25	<i>Collected By</i> ns/eb/twb	<i>Received at Laboratory</i> 11/28/16 17:40
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	1.0 mg/L	1.3	11/29/16 12:02	1/9/17 14:14	dtm	EPA 200.8 Rev. 5.4
Lead	0.0022 mg/L	0.015	11/29/16 12:02	1/6/17 23:18	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-83

<i>Sample Point Description</i> P-83-BF	<i>Collected</i> 11/27/16 8:25	<i>Collected By</i> ns/eb/twb	<i>Received at Laboratory</i> 11/28/16 17:40
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	1.1 mg/L	1.3	11/29/16 12:02	1/9/17 14:23	dtm	EPA 200.8 Rev. 5.4
Lead	0.0022 mg/L	0.015	11/29/16 12:02	1/6/17 23:21	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-84

<i>Sample Point Description</i> P-84-BF	<i>Collected</i> 11/27/16 8:25	<i>Collected By</i> ns/eb/twb	<i>Received at Laboratory</i> 11/28/16 17:40
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	1.5 mg/L	1.3	11/29/16 12:02	1/9/17 14:26	dtm	EPA 200.8 Rev. 5.4
Lead	0.010 mg/L	0.015	11/29/16 12:02	1/6/17 23:24	dtm	EPA 200.8 Rev. 5.4

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PROJECT: Pierce

TRACE ID: T16K474-85

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
P-85-CF		11/27/16	8:26	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	1.6 mg/L	1.3	11/29/16 12:02	1/9/17 14:29	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0015 mg/L	0.015	11/29/16 12:02	1/6/17 23:27	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T16K474-86

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
P-86-B		11/27/16	8:26	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.76 mg/L	1.3	11/29/16 12:02	1/6/17 23:36	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0067 mg/L	0.015	11/29/16 12:02	1/6/17 23:36	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T16K474-87

<i>Sample Point Description</i>		<i>Collected</i>		<i>Collected By</i>		<i>Received at Laboratory</i>	
P-87-DS		11/27/16	8:27	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.85 mg/L	1.3	11/29/16 12:02	1/9/17 14:32	dtm	EPA 200.8 Rev. 5.4	
Lead	0.018 mg/L	0.015	11/29/16 12:02	1/6/17 23:39	dtm	EPA 200.8 Rev. 5.4	

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TRACE ID: T16K474-89

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-89-KF	11/27/16 7:43	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.34 mg/L	1.3	11/29/16 12:02	1/6/17 23:42	dtm	EPA 200.8 Rev. 5.4
Lead	0.0012 mg/L	0.015	11/29/16 12:02	1/6/17 23:42	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-90

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-90-CF	11/27/16 7:56	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.44 mg/L	1.3	11/29/16 12:02	1/6/17 23:45	dtm	EPA 200.8 Rev. 5.4
Lead	0.011 mg/L	0.015	11/29/16 12:02	1/6/17 23:45	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-91

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-91-CF	11/27/16 7:59	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	2.3 mg/L	1.3	11/29/16 12:02	1/9/17 14:35	dtm	EPA 200.8 Rev. 5.4
Lead	0.0059 mg/L	0.015	11/29/16 12:02	1/6/17 23:48	dtm	EPA 200.8 Rev. 5.4

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TRACE ID: T16K474-92

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-92-CF		11/27/16	8:02	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.32 mg/L	1.3	11/29/16 12:02	1/6/17 23:51	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0018 mg/L	0.015	11/29/16 12:02	1/6/17 23:51	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T16K474-93

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-93-CF		11/27/16	8:03	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.53 mg/L	1.3	11/29/16 12:02	1/6/17 23:53	dtm	EPA 200.8 Rev. 5.4	
Lead	0.028 mg/L	0.015	11/29/16 12:02	1/6/17 23:53	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T16K474-94

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-94-B		11/27/16	8:03	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.14 mg/L	1.3	11/29/16 12:02	1/6/17 23:56	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0016 mg/L	0.015	11/29/16 12:02	1/6/17 23:56	dtm	EPA 200.8 Rev. 5.4	

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PROJECT: Pierce

TRACE ID: T16K474-95

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-95-CF	11/27/16 8:15	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.32 mg/L	1.3	11/29/16 12:02	1/6/17 23:59	dtm	EPA 200.8 Rev. 5.4
Lead	0.019 mg/L	0.015	11/29/16 12:02	1/6/17 23:59	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-96

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-96-DS	11/27/16 8:15	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.38 mg/L	1.3	11/29/16 12:02	1/7/17 0:02	dtm	EPA 200.8 Rev. 5.4
Lead	0.014 mg/L	0.015	11/29/16 12:02	1/7/17 0:02	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-97

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A1	11/27/16 8:30	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	11/29/16 12:02	1/7/17 0:11	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:02	1/7/17 0:11	dtm	EPA 200.8 Rev. 5.4

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TRACE ID: T16K474-98

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A2	11/27/16 8:31	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.026 mg/L	1.3	11/29/16 12:02	1/7/17 0:14	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:02	1/7/17 0:14	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-99

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A3	11/27/16 8:32	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.032 mg/L	1.3	11/29/16 12:02	1/7/17 0:17	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:02	1/7/17 0:17	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AA

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A4	11/27/16 8:33	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.037 mg/L	1.3	11/29/16 12:02	1/7/17 0:20	dtm	EPA 200.8 Rev. 5.4
Lead	0.0016 mg/L	0.015	11/29/16 12:02	1/7/17 0:20	dtm	EPA 200.8 Rev. 5.4

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TRACE ID: T16K474-AB

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A5	11/27/16 8:34	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.030 mg/L	1.3	11/29/16 12:04	1/7/17 0:29	dtm	EPA 200.8 Rev. 5.4
Lead	0.0012 mg/L	0.015	11/29/16 12:04	1/7/17 0:29	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AC

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A6	11/27/16 8:35	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	11/29/16 12:04	1/7/17 0:35	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:04	1/7/17 0:35	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AD

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A7	11/27/16 8:36	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	11/29/16 12:04	1/7/17 0:38	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:04	1/7/17 0:38	dtm	EPA 200.8 Rev. 5.4

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PROJECT: Pierce

TRACE ID: T16K474-AE

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A8	11/27/16 8:37	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	11/29/16 12:04	1/7/17 0:46	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:04	1/7/17 0:46	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AF

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A9	11/27/16 8:38	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	11/29/16 12:04	1/7/17 0:49	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:04	1/7/17 0:49	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AG

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-A10	11/27/16 8:39	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	<0.025 mg/L	1.3	11/29/16 12:04	1/7/17 0:52	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:04	1/7/17 0:52	dtm	EPA 200.8 Rev. 5.4

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State of Michigan Laboratory ID: 8001

January 12, 2017

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

PROJECT: Pierce

TRACE ID: T16K474-AH

Sample Point Description P-B1 Collected 11/27/16 8:40 Collected By ns/eb/twb Received at Laboratory 11/28/16 17:40

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.15 mg/L	1.3	11/29/16 12:04	1/7/17 0:55	dtm	EPA 200.8 Rev. 5.4
Lead	0.0035 mg/L	0.015	11/29/16 12:04	1/7/17 0:55	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AI

Sample Point Description P-B2 Collected 11/27/16 8:41 Collected By ns/eb/twb Received at Laboratory 11/28/16 17:40

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.056 mg/L	1.3	11/29/16 12:04	1/7/17 0:58	dtm	EPA 200.8 Rev. 5.4
Lead	0.0066 mg/L	0.015	11/29/16 12:04	1/7/17 0:58	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AJ

Sample Point Description P-B3 Collected 11/27/16 8:42 Collected By ns/eb/twb Received at Laboratory 11/28/16 17:40

Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.052 mg/L	1.3	11/29/16 12:04	1/7/17 1:01	dtm	EPA 200.8 Rev. 5.4
Lead	0.0031 mg/L	0.015	11/29/16 12:04	1/7/17 1:01	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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January 12, 2017

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2305 Cole Street
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PROJECT: Pierce

TRACE ID: T16K474-AK

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-B4	11/27/16 8:43	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.042 mg/L	1.3	11/29/16 12:04	1/7/17 1:04	dtm	EPA 200.8 Rev. 5.4
Lead	0.0023 mg/L	0.015	11/29/16 12:04	1/7/17 1:04	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AL

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-B5	11/27/16 8:44	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.042 mg/L	1.3	11/29/16 12:04	1/7/17 1:07	dtm	EPA 200.8 Rev. 5.4
Lead	0.0020 mg/L	0.015	11/29/16 12:04	1/7/17 1:07	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AM

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-B6	11/27/16 8:45	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.041 mg/L	1.3	11/29/16 12:04	1/7/17 1:10	dtm	EPA 200.8 Rev. 5.4
Lead	0.0025 mg/L	0.015	11/29/16 12:04	1/7/17 1:10	dtm	EPA 200.8 Rev. 5.4

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State of Michigan Laboratory ID: 8001

January 12, 2017

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PROJECT: Pierce

TRACE ID: T16K474-AN

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-B7	11/27/16 8:46	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.041 mg/L	1.3	11/29/16 12:04	1/7/17 1:13	dtm	EPA 200.8 Rev. 5.4
Lead	0.0019 mg/L	0.015	11/29/16 12:04	1/7/17 1:13	dtm	EPA 200.8 Rev. 5.4

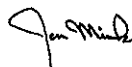
TRACE ID: T16K474-AO

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-B8	11/27/16 8:47	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.041 mg/L	1.3	11/29/16 12:04	1/7/17 1:24	dtm	EPA 200.8 Rev. 5.4
Lead	0.0015 mg/L	0.015	11/29/16 12:04	1/7/17 1:24	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AP

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-B9	11/27/16 8:48	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.042 mg/L	1.3	11/29/16 12:04	1/7/17 1:27	dtm	EPA 200.8 Rev. 5.4
Lead	0.0023 mg/L	0.015	11/29/16 12:04	1/7/17 1:27	dtm	EPA 200.8 Rev. 5.4

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January 12, 2017

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PROJECT: Pierce

TRACE ID: T16K474-AQ

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-B10		11/27/16	8:49	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.066 mg/L	1.3	11/29/16 12:04	1/7/17 1:30	dtm	EPA 200.8 Rev. 5.4	
Lead	0.0023 mg/L	0.015	11/29/16 12:04	1/7/17 1:30	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T16K474-AR

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-C1		11/27/16	8:50	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.98 mg/L	1.3	11/29/16 12:04	1/9/17 14:38	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	11/29/16 12:04	1/7/17 1:33	dtm	EPA 200.8 Rev. 5.4	

TRACE ID: T16K474-AS

Sample Point Description		Collected		Collected By		Received at Laboratory	
P-C2		11/27/16	8:51	ns/eb/twb		11/28/16 17:40	
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD	
Copper	0.84 mg/L	1.3	11/29/16 12:04	1/9/17 14:40	dtm	EPA 200.8 Rev. 5.4	
Lead	<0.0010 mg/L	0.015	11/29/16 12:04	1/7/17 1:36	dtm	EPA 200.8 Rev. 5.4	

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January 12, 2017

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PROJECT: Pierce

TRACE ID: T16K474-AT

Sample Point Description P-C3	Collected 11/27/16 8:52	Collected By ns/eb/twb	Received at Laboratory 11/28/16 17:40
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.68 mg/L	1.3	11/29/16 12:04	1/7/17 1:39	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:04	1/7/17 1:39	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AU

Sample Point Description P-C4	Collected 11/27/16 8:53	Collected By ns/eb/twb	Received at Laboratory 11/28/16 17:40
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.86 mg/L	1.3	11/29/16 12:04	1/7/17 1:42	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:04	1/7/17 1:42	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AV

Sample Point Description P-C5	Collected 11/27/16 8:54	Collected By ns/eb/twb	Received at Laboratory 11/28/16 17:40
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Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.37 mg/L	1.3	11/29/16 12:06	1/9/17 16:25	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:06	1/9/17 16:25	dtm	EPA 200.8 Rev. 5.4

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PROJECT: Pierce

TRACE ID: T16K474-AW

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-C6	11/27/16 8:55	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.26 mg/L	1.3	11/29/16 12:06	1/9/17 16:31	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:06	1/9/17 16:31	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AX

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-C7	11/27/16 8:56	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.18 mg/L	1.3	11/29/16 12:06	1/9/17 16:34	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:06	1/9/17 16:34	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-AY

Sample Point Description	Collected	Collected By	Received at Laboratory			
P-C8	11/27/16 8:57	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.17 mg/L	1.3	11/29/16 12:06	1/9/17 16:43	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:06	1/9/17 16:43	dtm	EPA 200.8 Rev. 5.4

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State of Michigan Laboratory ID: 8001

January 12, 2017

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PROJECT: Pierce

TRACE ID: T16K474-AZ

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>			
P-C9	11/27/16 8:58	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.18 mg/L	1.3	11/29/16 12:06	1/9/17 16:46	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:06	1/9/17 16:46	dtm	EPA 200.8 Rev. 5.4

TRACE ID: T16K474-BA

<i>Sample Point Description</i>	<i>Collected</i>	<i>Collected By</i>	<i>Received at Laboratory</i>			
P-C10	11/27/16 8:58	ns/eb/twb	11/28/16 17:40			
Metals, Total	RESULT	* MCL	PREPARED	ANALYZED	BY	METHOD
Copper	0.21 mg/L	1.3	11/29/16 12:06	1/9/17 16:49	dtm	EPA 200.8 Rev. 5.4
Lead	<0.0010 mg/L	0.015	11/29/16 12:06	1/9/17 16:49	dtm	EPA 200.8 Rev. 5.4

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Birmingham Schools Fixture Inventory

Page 1 of

Building: Pierce

Date Collected: 11/27/16
 Sampler's initials: NS/EB/TWB

Trace ID: TK474
 Logged by: JS
 Checked by: GH

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
1	7:35	P-01-DS	Receiving	3467	N	Unknown	
2	7:36	P-02-DS	Boiler Rm	3468	N	Unknown	
3	7:37	P-03-KF	Kitchen-Deep Slnk	3469/70	Y	Br, Cu	
4	7:37	P-04-HS	Kitchen- Handsink	3471	Y	Br, Cu	
5	7:37	P-05-KF	Kltchen Triple Sink-Left	3472/73	Y	Br, Cu	
6	7:37	P-06-KF	Kitchen Triple Sink-Middle	3472/73	Y	Br, Cu	
7	7:37	P-07-KF	Kitchen Triple Sink-Right	3472/73	Y	Br, Cu	
8	7:38	P-08-DF	Admin. Hall	3474	N	Unknown	
9	7:38	P-09-Bottle	Admin. Hall	3474	N	Unknown	
10	7:38	P-10-BF	Boy's Admin Hall-Left	3475	Y	Br, Cu	
11	7:38	P-11-BF	Boy's Admin Hall-Right	3475	Y	Br, Cu	
12	7:39	P-12-BF	Girl's Admin Hall- Left	3476	Y	Br, Cu	
13	7:40	P-13-BF	Girl's Admin hall- Right	3476	Y	Br, Cu	
14	7:42	P-14-BF	Office Clinic	3477	Y	Br, Cu	
15	7:42	P-15-KF	Teacher's Lounge	3478/79	Y	Br, Cu	
16	7:42	P-16-Coffee	Teacher's Lounge	3480	N	Br, Cu	
17	7:44	P-17-BF	Rm 113	3482	Y	Br, Cu	
18	7:44	P-18-CF	Rm 113	3483	Y	Br, Cu	
19	7:44	P-19-B	Rm 113	3483	N	Br, Cu	
20	7:45	P-20-CF	Rm 112	3484/85	Y	Br, Cu	
21	7:45	P-21-B	Rm 112	3484/85	N	Br, Cu	
22	7:45	P-22-BF	Rm 112	3486	Y	Br, Cu	
23	7:46	P-23-CF	Rm 111	3487/88	Y	Br, Cu	
24	7:46	P-24-B	Rm 111	3487/88	N	Br, Cu	
25	7:46	P-25-BF	Rm 111	3489	Y	Br, Cu	
26	7:47	P-26-CF	Rm 110	3490	Y	Br, Cu	
27	7:47	P-27-B	Rm 110	3490	N	Br, Cu	
28	7:48	P-28-DF	Outside 109-Left	3491	N	Unknown	
29	7:48	P-29-DF	Outside 109-Right	3491	N	Unknown	
30	7:49	P-30-CF	Rm 109	3492	Y	Br, Cu	
31	7:50	P-31-BF	Girls by 109- Left	3493	Y	Br, Cu	
32	7:50	P-32-BF	Girls by 109-Right	3493	Y	Br, Cu	
33	7:51	P-33-DS	Custodial by 109	3494	N	Unknown	
34	7:52	P-34-BF	Unisex by 109	3495	Y	Br, Cu	
35	7:53	P-35-BF	Boys by 109-Left	3496	Y	Br, Cu	
36	7:53	P-36-BF	Boys by 109-Right	3496	Y	Br, Cu	
37	7:54	P-37-CF	Rm 108	3497/98	Y	Br, Cu	
38	7:54	P-38-B	Rm 108	3497/98	N	Br, Cu	
39	7:55	P-39-DF	Hall by 107	3499	N	Br, Cu	

Released by: [Signature]

Received by: [Signature]

Date: 11-27-16 Time: 13:15
11-28-16 17:46

Birmingham Schools Fixture Inventory

Page 2 of

Building: Pierce

Date Collected: 11/27/16
 Sampler's Initials: NS/ED/TWP

Trace ID: TT6K474
 Logged by: JS
 Checked by: GH

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
40	7:57	P-40-KF	Media Workroom	3500/01	Y	Br, Cu	
41	7:58	P-41-DF	Hall by 105	3502	N	Unknown	
42	7:59	P-42-CF	Rm 105A	3503	Y	Br, Cu	
43	8:00	P-43-BF	Girls by 105-Left	3504	N	Br, Cu	
44	8:00	P-44-BF	Girls by 105-Right	3504	Y	Br, Cu	
45	8:00	P-45-BF	Unisex by 105	3505	Y	Br, Cu	
46	8:01	P-46-BF	Boy's by 105-Left	3506	Y	Br, Cu	
47	8:01	P-47-BF	Boy's by 105-Right	3506	Y	Br, Cu	
48	8:02	P-48-DS	Custodial by 105	3507	N	Unknown	
49	8:04	P-49-DF	Hall by 103	3508	N	Unknown	
50	8:05	P-50-DF	Rm 101	3509	N	Unknown	
51	8:09	P-51-DF	Hall by 201	3510	N	Unknown	
52	8:11	P-52-CF	Rm 202	3511	Y	Br, Cu	
53	8:11	P-53-B	Rm 202	3511	N	Br, Cu	
54	8:10	P-54-CF	Rm 201- Art - Left	3512/13	Y	Br, Cu	
55	8:10	P-55-CF	Rm 201- Art - Right	3512/13	Y	Br, Cu	
56	8:12	P-56-BF	Boy's by 205-Left	3514	Y	Br, Cu	
57	8:12	P-57-BF	Boy's by 205-Right	3514	Y	Br, Cu	
58	8:13	P-58-DS	Custodial by 205	3515	N	Unknown	
59	8:13	P-59-BF	Unisex by 205	3516	Y	Br, Cu	
60	8:13	P-60-BF	Girl's by 205-Left	3517	Y	Br, Cu	
61	8:13	P-61-BF	Girl's by 205-Right	3517	Y	Br, Cu	
62	8:14	P-62-DF	Hall by 205	3518	N	Unknown	
63	8:15	P-63-DF	Hall 212	3519	N	Unknown	
64	8:16	P-64-BF	Boy's by 212- Left	3520	Y	Br, Cu	
65	8:16	P-65-BF	Boy's by 212-Right	3520	Y	Br, Cu	
66	8:17	P-66-BF	Girl's by 212-Left	3521	Y	Br, Cu	
67	8:17	P-67-BF	Girl's by 212- Right	3521	Y	Br, Cu	
68	8:18	P-68-BF	Staff by 212	3522	Y	Br, Cu	
69	8:19	P-69-CF	Rm 213	3523/24	Y	Br, Cu	
70	8:20	P-70-DF	Hall by 213	3425	N	Br, Cu	
71	8:21	P-71-CF	Rm 214	3526	Y	Br, Cu	
72	8:21	P-72-CF	Rm 215	3527/28	N	Br, Cu	
? 73	8:21	P-73-B	Rm 215	3527/28	Y	Br, Cu	
? 74	8:22	P-74-CF	Rm 216	3529/30	Y	Br, Cu	
75	8:22	P-75-B	Rm 216	3529/30	N	Br, Cu	
76	8:23	P-76-BF	Staff by 215	3531	Y	Br, Cu	
77	8:24	P-77-BF	Rm 217	3532/33	Y	Br, Cu	
78	8:24	P-78-B	Rm 217	3532/33	N	Br, Cu	

Released by: [Signature] Received by: [Signature] Date: 11/28/16 Time: 17:46



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Birmingham Schools Fixture Inventory

Page 3 of _____

Building: Pierce

Date Collected: _____
 Sampler's Initials: _____

Trace ID: TT0K474
 Logged by: JS
 Checked by: GP

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
79	B: 24	P-79-BF	Girl's by 216-Left	3534	Y	Br, Cu	
80	B: 24	P-80-BF	Girl's by 216- Middle	3534	Y	Br, Cu	
81	B: 24	P-81-BF	Girl's by 216- Right	3534	Y	Br, Cu	
82	B: 25	P-82-BF	Boy's by 216- Left	3435	Y	Br, Cu	
83	B: 25	P-83-BF	Boy's by 216- Middle	3435	Y	Br, Cu	
84	B: 25	P-84-BF	Boy's by 216- Right	3435	Y	Br, Cu	
85	B: 26	P-85-CF	Rm 218	3436/37	Y	Br, Cu	
86	B: 26	P-86-B	Rm 218	3436/37	N	Br, Cu	
87	B: 27	P-87-DS	Custodial by 218	3538	N	Unknown	
88	No Sample	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: 11/28/16 Time: 17:40

Birmingham Schools Chain-of-Custody Record

Page 4 of _____

Building: Pierce

Date Collected: 11/27/16
Sampler's Initials: NS/ER/JAB

Trace ID: TICKL174
Logged by: JS
Checked by: CH

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
89	7:43	89 CF	CLINIC	3925/26	Y	By Len	
90	7:56	90 CF	Rm 106	3927/18/29	Y	"	
91	7:59	91 CF	Rm 105	3928	Y	"	
92	8:02	92 CF	Rm 104	3921/32	Y	"	
93	8:03	93 CF	Rm 103	3933/24	Y	"	
94	8:03	94 B	"	"	N	"	
95	8:15	95 CF	Rm 200	3935	Y	"	
96	8:19	96 DS	Custodial By 213	3936	N	"	
97	8:30	A1	Incoming Signage				Receiving
98	8:31	A2					
99	8:32	A3					
100	8:33	A4					
101	8:34	A5					
102	8:35	A6					
103	8:36	A7					
104	8:37	A8					
105	8:38	A9					
106	8:39	A10					
107	8:40	B1	Midway Point				Rm 108
108	41	B2					
109	42	B3					
110	43	B4					
111	44	B5					
112	45	B6					
113	46	B7					
114	47	B8					
115	48	B9					
116	49	B10					
117	8:50	C1	End Point				and
118	51	C2					Custodial
119	52	C3					Rm 218
120	53	C4					
121	54	C5					
122	55	C6					
123	56	C7					
124	57	C8					

44-11-29-16

Released by: [Signature] Received by: [Signature] Date: 11/28/16 Time: 17:40



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 Chain-of-Custody Record Page 5 of

Building: Pierce

Date Collected:
 Sampler's Initials:

Trace ID: T16K474
 Logged by: JR
 Checked by: GF

Trace No.	Time Taken	Sample Point	Location	Photo(s)	Aerator?	Connecting Plumbing	Notes
125	8:58	C9	End Point				
126	8:59	C10	"				
127		92-SP	Outside Door 1				
128		98SP	" Door 3				
129		97SP	" By Main Exit				
130		100 SP	" Door 5				
131		101 SP	" Door 6				
132							
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Released by: [Signature] Received by: [Signature] Date: 11/28/16 Time: 17:40

SAMPLE LOG IN CHECKLIST

Trace ID #: T16K474 Date: 11/27/16 Package Description: Coolers Temperature: 20.0
 Client Name: Birmingham - Perce Time: 13:45 Logged in by: JS

Cooler Receipt

Cooler/samples delivered by: Trace courier
 Hand delivered Name of delivery person: _____
 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 = -0.4°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			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 checked="" 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 6/21/10 AY
 Lot: HC547328 verified 6/30/16 AY