



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18J1268

Tidewater

Project Name: Brunswick Elementary

Meneka Rodrigo
6625 Selnick Drive, Suite A
Elkridge, MD 21075

Project / PO Number: N/A
Received: 10/24/2018
Reported: 11/21/2018

Analytical Testing Parameters

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-02 1067 (DF) Test Point, Drinking Water, 18J1268-01, etc.)

Table header for Metals, Total by EPA 200 Series Methods with columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst

Method: EPA 200.2/EPA 200.8

Table row for Lead: Result <1.0, Limit(s) 20.0, RL 1.0, Units ppb, Prepared 10/25/18 0937, Analyzed 10/25/18 1729, Analyst LMH

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (S23-72 1067 (NO) Nest Point, Drinking Water, 18J1268-02, etc.)

Table header for Metals, Total by EPA 200 Series Methods with columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst

Method: EPA 200.2/EPA 200.8

Table row for Lead: Result 1.3, Limit(s) 20.0, RL 1.0, Units ppb, Prepared 10/25/18 0937, Analyzed 10/25/18 1730, Analyst LMH

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (K31-01 1067 (KS) Test Point, Drinking Water, 18J1268-03, etc.)

Table header for Metals, Total by EPA 200 Series Methods with columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst

Method: EPA 200.2/EPA 200.8

Table row for Lead: Result 25.0, Limit(s) 20.0, RL 1.0, Units ppb, Prepared 10/25/18 0937, Analyzed 10/25/18 1734, Analyst LMH

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (K31-02 1067 (KS) Left Test Point, Drinking Water, 18J1268-04, etc.)

Table header for Metals, Total by EPA 200 Series Methods with columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst

Method: EPA 200.2/EPA 200.8

Table row for Lead: Result 29.6, Limit(s) 20.0, RL 1.0, Units ppb, Prepared 10/25/18 0937, Analyzed 10/25/18 1736, Analyst LMH



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<b>Client Sample ID:</b> K31-02 1067 (KS) Right Test Point	<b>Collected By:</b> kevin Rodgers
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/24/2018 4:27
<b>Lab Sample ID:</b> 18J1268-05	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	2.6	20.0	1.0	ppb		10/25/18 0937	10/25/18 1739	LMH

<b>Client Sample ID:</b> S23-69 1067 (OT) Test Point	<b>Collected By:</b> kevin Rodgers
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/24/2018 4:13
<b>Lab Sample ID:</b> 18J1268-06	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	11.7	20.0	1.0	ppb		10/25/18 0937	10/25/18 1742	LMH

<b>Client Sample ID:</b> W01A-04 1067 (DF) Test Point	<b>Collected By:</b> kevin Rodgers
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/24/2018 4:09
<b>Lab Sample ID:</b> 18J1268-07	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	<1.0	20.0	1.0	ppb		10/25/18 0937	10/25/18 1743	LMH

<b>Client Sample ID:</b> W01A-05 1067 (DF) Test Point	<b>Collected By:</b> kevin Rodgers
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/24/2018 4:16
<b>Lab Sample ID:</b> 18J1268-08	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	1.2	20.0	1.0	ppb		10/25/18 0937	10/25/18 1744	LMH



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<b>Client Sample ID:</b> W01A-06 1067 (DF) Test Point	<b>Collected By:</b> kevin Rodgers
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/24/2018 4:19
<b>Lab Sample ID:</b> 18J1268-09	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	<1.0	20.0	1.0	ppb		10/25/18 0937	10/25/18 1748	LMH

<b>Client Sample ID:</b> W01A-03 1067 (DF) Test Point	<b>Collected By:</b> kevin Rodgers
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/24/2018 4:07
<b>Lab Sample ID:</b> 18J1268-10	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	<1.0	20.0	1.0	ppb		10/25/18 0937	10/25/18 1749	LMH

<b>Client Sample ID:</b> W01A-01 1067 (DF) Test Point	<b>Collected By:</b> kevin Rodgers
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/24/2018 4:02
<b>Lab Sample ID:</b> 18J1268-11	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	1.4	20.0	1.0	ppb		10/25/18 0937	10/25/18 1750	LMH

<b>Client Sample ID:</b> S23-19-1067 (TL) Test Point	<b>Collected By:</b> kevin Rodgers
<b>Sample Matrix:</b> Drinking Water	<b>Collection Date:</b> 10/24/2018 4:04
<b>Lab Sample ID:</b> 18J1268-12	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
<b>Method: EPA 200.2/EPA 200.8</b>								
Lead	2.9	20.0	1.0	ppb		10/25/18 0937	10/25/18 1751	LMH

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

RL: Reporting Limit

Cooler Receipt Log

Cooler ID: Default Cooler Temp: 13.5°C



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Cooler Inspection Checklist

Custody Seals Intact	Yes	Containers Intact	Yes
Received on ice or not required.	Yes	Radiation Scan Acceptable or not required.	Yes
COC Present	Yes	COC/Containers Agree	Yes
Correct Preservation	No	Correct Number of Containers Received	Yes
Sufficient Sample Volume	Yes	Proper Condition	Yes

Project Requested Certification(s)

Microbac Laboratories, Inc. - Baltimore  
109

State of Maryland (Drinking Water)

Report Comments

*Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.*

*The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.*

Reviewed and Approved By:

Isang Isang  
Client Relations

Reported: 11/21/2018 15:45



Reviewed By: II  
 Date: 10/25/18

18J1268

### Multiple Sample COC

Site: **Brunswick Elementary: 400 Central Avenue, Brunswick, MD 21716, Office Ph.: 240-236-2900**

Date Sampled: **Wednesday, October 24, 2018**

Row	Area Number/Room/Space	From Item Description	Sample Name:	Date/Time Sampled (ex: 03/01/2018 13:28)	Sampler's Name
1	Gym Hallway	Drinking Fountain, Refrigerated	W01A-02 1067 (DF) Test Point	10/24/2018 3:57 AM	Kiven Rodgers
2	Health RM	Non-Kitchen lavatory/Sink	S23-72 1067 (NO) Test Point	10/24/2018 3:59 AM	Kiven Rodgers
3	Kitchen	Sink, Kitchen	K31-01 1067 (KS) Test Point	10/24/2018 4:25 AM	Kiven Rodgers
4	Kitchen	Sink, Kitchen	K31-02 1067 (KS) Left Test Point	10/24/2018 4:26 AM	Kiven Rodgers
5	Kitchen	Sink, Kitchen	K31-02 1067 (KS) Right Test Point	10/24/2018 4:27 AM	Kiven Rodgers
6	Main Office Mail RM	Non-Kitchen lavatory/Sink	S23-69 1067 (OT) Test Point	10/24/2018 4:13 AM	Kiven Rodgers
7	Media Center	Drinking Fountain, Refrigerated	W01A-04 1067 (DF) Test Point	10/24/2018 4:09 AM	Kiven Rodgers
8	Outside Main Office	Drinking Fountain, Refrigerated	W01A-05 1067 (DF) Test Point	10/24/2018 4:16 AM	Kiven Rodgers
9	Outside RM 19	Drinking Fountain, Refrigerated	W01A-06 1067 (DF) Test Point	10/24/2018 4:19 AM	Kiven Rodgers
10	Outside RM 35	Drinking Fountain, Refrigerated	W01A-03 1067 (DF) Test Point	10/24/2018 4:07 AM	Kiven Rodgers
11	Outside RM 8	Drinking Fountain, Refrigerated	W01A-01 1067 (DF) Test Point	10/24/2018 4:02 AM	Kiven Rodgers
12	Room 5	Non-Kitchen lavatory/Sink	S23-19-1067 (TL) Test Point	10/24/2018 4:04 AM	Kiven Rodgers
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-



Samples Relinquished By: Kiven Rodgers 10-24-18  
 Samples Received By: Quelisha Metcalf 10-24-18 8:50 13.5  
 Temp:

# Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division  
 Control # 606-03  
 Effective Date: 11/30/2016  
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Number of Coolers Received: 1  
 Client: TideWater  
 Form Completed By: HNWilling  
 Shipper:  
 Custody Tape Intact:  
 Containers Intact:  
 Sample Received on Ice or refrigerated:  
  
 Chain of Custody Present with shipment:  
 Sample Bottle IDs agree with COC:  
 Preservation requirements met:  
 Correct Number of Containers / Sample Volume:  
 Headspace in container:  
 Type of Sample:

Receipt Date / Time: 10/24/18 0800  
 Work Order # 1851268

Microbac  Client  UPS  FedEx  
 YES / NO / NA  
 YES / NO  
 YES /  NO / NA  
 Infrared (IR) Temperature: 13.5 °C  
 YES / NO  
 YES / NO  
 YES  NO / Not Checked  
 YES / NO (If No, contact client immediately)  
 YES / NO /  NA  
 Water  Soil Wipes  Oil Filter  Solid  
 Sludge  Food  Swab  Other

**Container Type / Quantity:**

A -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid:	If preserved pH <2 , pH >10
B -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
C -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
D -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
E -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
H -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
K -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
L -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
M -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
P -	<u>12</u> Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
W -	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
V -	Unpreserved	HCl	HCl / Ascorbic Acid	HCl / NaTHIO	<b>(Checked at time of Analysis)</b>		
F -	Unpreserved	NaTHIO <b>(Checked at time of Analysis)</b>					
S -	Unpreserved	NaTHIO <b>(Checked at time of Analysis)</b>					
SN -	Unpreserved	NaTHIO	NaTHIO/EDTA	<b>(Checked at time of Analysis)</b>			
	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10
	Unpreserved	H2SO4	HNO3	HCl	NaOH	NaOH/Ascorbic Acid	If preserved pH <2 , pH >10

**Describe preservation requirements not met:**

*All Acid preserved <2 pH      NaOH preserved >12 pH      All others >2 and <10 (usually 4-8)*  
 Sample ID: All bottles H2SO4 (HNO3) NaOH 1 mls added to preserve for analysis  
 Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added requested @ time  
 Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added 10/24/18  
 Sample ID: \_\_\_\_\_ H2SO4 HNO3 NaOH \_\_\_\_\_ mls added  
*H2SO4 - Sulfuric Acid, HNO3 - Nitric Acid, NaOH - Sodium Hydroxide, ASC - Ascorbic Acid, NaTHIO - Sodium Thiosulfate 1124*

Describe Anomalies: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Contact information / Summary of Actions:**

Date / Time: \_\_\_\_\_ Contact: \_\_\_\_\_ Contact By: \_\_\_\_\_  
 Comments: \_\_\_\_\_  
 \_\_\_\_\_