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Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18J1315

Tidewater

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

Project Name: Middletown Primary

Project / PO Number: N/A
Received: 10/25/2018
Reported: 11/21/2018

Analytical Testing Parameters

Client Sample ID: W01A-06 1034 (DF) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-01
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:01

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/26/18 1239	10/26/18 1830	LMH

Client Sample ID: K31-02 1034 (DF) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-02
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:08

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	8.0	20.0	1.0	ppb		10/26/18 1239	10/26/18 1835	LMH

Client Sample ID: W01A-05 1034 (DF) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-03
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:44

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.1	20.0	1.0	ppb		10/26/18 1239	10/26/18 1838	LMH

Client Sample ID: W01A-04 1034 (DF) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-04
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:58

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/26/18 1239	10/26/18 1839	LMH

Client Sample ID: W01A-03 1034 (DF) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-05
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:36

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/26/18 1239	10/26/18 1840	LMH

Client Sample ID: K17-02 1034 (IM) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-06
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:42

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/26/18 1239	10/26/18 1841	LMH

Client Sample ID: K17-01 1034 (IM) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-07
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:20

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/26/18 1239	10/26/18 1842	LMH

Client Sample ID: K31-01 1034 (KS) Left Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-08
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:22

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	10.6	20.0	1.0	ppb		10/26/18 1239	10/26/18 1843	LMH

Client Sample ID:	K31-01 1034 (KS) Right Test Point		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gonzalez
Lab Sample ID:	18J1315-09	**Collection Date:**	10/25/2018 4:22

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	**57.0**	20.0	1.0	ppb		10/26/18 1252	10/29/18 1309	GHW

Client Sample ID:	K31-04 1034 (KS) Test Point		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gonzalez
Lab Sample ID:	18J1315-10	**Collection Date:**	10/25/2018 4:24

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	**42.4**	20.0	1.0	ppb		10/26/18 1239	10/26/18 1844	LMH

Client Sample ID:	W01A-01 1034 (DF) Test Point		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gonzalez
Lab Sample ID:	18J1315-11	**Collection Date:**	10/25/2018 4:30

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/26/18 1239	10/26/18 1848	LMH

Client Sample ID:	W01A-02 1034 (DF) Test Point		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gonzalez
Lab Sample ID:	18J1315-12	**Collection Date:**	10/25/2018 4:32

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		10/26/18 1239	10/26/18 1849	LMH

Client Sample ID: S23-51 1034 (NO) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-13
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:42

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	9.9	20.0	1.0	ppb		10/26/18 1239	10/26/18 1850	LMH

Client Sample ID: S23-62 1034 (HE) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-14
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:47

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	10.7	20.0	1.0	ppb		10/26/18 1239	10/26/18 1853	LMH

Client Sample ID: S23-61 1034 (OT) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-15
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:46

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	5.8	20.0	1.0	ppb		10/26/18 1239	10/26/18 1854	LMH

Client Sample ID: S23-60 1034 (OT) Test Point
Sample Matrix: Drinking Water
Lab Sample ID: 18J1315-16
Collected By: Walter Gonzalez
Collection Date: 10/25/2018 4:35

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	3.7	20.0	1.0	ppb		10/26/18 1239	10/26/18 1855	LMH

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18J1315

Client Sample ID:	S23-43 1034 (TL) Test Point		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gonzalez
Lab Sample ID:	18J1315-17	**Collection Date:**	10/25/2018 4:34

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	5.0	20.0	1.0	ppb		10/26/18 1239	10/26/18 1856	LMH

Client Sample ID:	K31-03 1034 (KS) Test Point		
Sample Matrix:	Drinking Water	**Collected By:**	Walter Gonzalez
Lab Sample ID:	18J1315-18	**Collection Date:**	10/25/2018 4:25

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	**35.5**	20.0	1.0	ppb		10/26/18 1239	10/26/18 1856	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: 12.6°C

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 15:53

Reviewed By: II

Date: 10/25/18

1811315

MICROBAC

Multiple Sample COC

Site: **Middletown Primary: 403 Franklin Street, Middletown, MD 21769, Office Ph.: 240-566-0200**

Date Sampled: **Thursday, October 25, 2018**

Row	Area Number/Room/Space	From Item Description	Sample Name:	Date/Time Sampled (ex: 03/01/2018 13:28	Sampler's Name
1	Cafeteria	Drinking Fountain, Refrigerated	W01A-06 1034 (DF) Test Point	10/25/2018 4:01 am	Walter Gonzales
2	Dishwashing Room Sprayer	Sink, Kitchen	~~K34-01 1034 (KS) Test Point~~ K31-02 1034 (KS)	10/25/2018 4:08 am	Walter Gonzales
3	Hall by RM 113	Drinking Fountain, Refrigerated	W01A-05 1034 (DF) Test Point	10/25/2018 4:44 am	Walter Gonzales
4	Hall by RM 145	Drinking Fountain, Refrigerated	W01A-04 1034 (DF) Test Point	10/25/2018 4:58	Walter Gonzales
5	Hall by RM 166	Drinking Fountain, Refrigerated	W01A-03 1034 (DF) Test Point	10/25/2018 4:36	Walter Gonzales
6	Health Room	Ice Machine	K17-02 1034 (IM) Test Point	10/25/2018 4:42	Walter Gonzales
7	Kitchen	Ice Machine	K17-01 1034 (IM) Test Point	10/25/2018 4:20	Walter Gonzales
8	Main Kitchen	Sink, Kitchen	~~K31-02~~ K31-01 1034 (KS) Left Test Point	10/25/2018 4:22	Walter Gonzales
9	Main Kitchen	Sink, Kitchen	~~K31-02~~ K31-01 1034 (KS) Right Test Point	10/25/2018 4:22	Walter Gonzales
10	Main Kitchen	Sink, Kitchen	K31-04 1034 (KS) Test Point	10/25/2018 4:24	Walter Gonzales
11	Park/Rec Lobby	Drinking Fountain, Refrigerated	W01A-01 1034 (DF) Test Point	10/25/2018 4:30	Walter Gonzales
12	RM 178	Drinking Fountain, Refrigerated	W01A-02 1034 (DF) Test Point	10/25/2018 4:32	Walter Gonzales
13	Room 106 Health RM	Non-Kitchen lavatory/Sink	S23-51 1034 (NO) Test Point	10/25/2018 4:42	Walter Gonzales
14	Room 133	Non-Kitchen lavatory/Sink	S23-62 1034 (HE) Test Point	10/25/2018 4:47	Walter Gonzales
15	Room 135	Non-Kitchen lavatory/Sink	S23-61 1034 (OT) Test Point	10/25/2018 4:46	Walter Gonzales
16	Room 138	Non-Kitchen lavatory/Sink	S23-60 1034 (OT) Test Point	10/25/2018 4:55	Walter Gonzales
17	Room 174 Faculty RM	Non-Kitchen lavatory/Sink	S23-43 1034 (TL) Test Point	10/25/2018 4:34	Walter Gonzales
18	main kitchen	sink kitchen	K31-03 1034 (KS	10/25/2018 4:25	
	-	-	-		
	-	-	-		

Samples Relinquished By: WALTER Gonzalez

Samples Received By: Evelyn Shimony 10/25/18 7:25

Temp: 12-6

Cooler Receipt Form / Sample Acceptance & Noncompliance Form

Microbac Laboratories, Inc., Baltimore Division
Control # 606-03
Effective Date: 11/30/2016
Page 1 of 1

Number of Coolers Received: 1
Client: Tide Water
Form Completed By: Megan Greenley

Receipt Date / Time: 10/25/18 7:25
Work Order # 185 1315

Shipper: ☐ Microbac ☒ Client ☐ UPS ☐ FedEx
Custody Tape Intact: YES / NO / NA
Containers Intact: YES / NO
Sample Received on Ice or refrigerated: YES / NO / NA
Infrared (IR) Temperature: 12.6 °C

Chain of Custody Present with shipment: YES / NO
Sample Bottle IDs agree with COC: YES / NO
Preservation requirements met: YES / NO / Not Checked
Correct Number of Containers / Sample Volume: YES / NO (If No, contact client immediately)
Headspace in container: YES / NO / NA
Type of Sample: 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 -	18 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 **(Checked at time of Analysis)**			
F -	___ Unpreserved	___ NaTHIO **(Checked at time of Analysis)**					
S -	___ Unpreserved	___ NaTHIO **(Checked at time of Analysis)**					
SN-	___ Unpreserved	___ NaTHIO	___ NaTHIO/EDTA **(Checked at time of Analysis)**				
	___ 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 H_2SO_4 ~~HNO_3~~ NaOH 1 mls added to preserve for analysis requested MW 10/25/18 10:12
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added
Sample ID: _____ H_2SO_4 HNO_3 NaOH _____ mls added

H_2SO_4 – Sulfuric Acid, HNO_3 – Nitric Acid, NaOH – Sodium Hydroxide, ASC – Ascorbic Acid, NaTHIO – Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

Date / Time: _____ Contact: _____ Contact By: _____
Comments: _____