



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18J1479

Tidewater

Project Name: Waverly Elementary

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

Project / PO Number: N/A
Received: 10/30/2018
Reported: 11/21/2018

Analytical Testing Parameters

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-03 1023 (DF), Drinking Water, 18J1479-01, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Element (Lead), Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1457), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-02 1023 (DF), Drinking Water, 18J1479-02, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Element (Lead), Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1458), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (S23-45 1023 (NO), Drinking Water, 18J1479-03, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Element (Lead), Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1459), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (K31-01 1023 (KS), Drinking Water, 18J1479-04, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Element (Lead), Result (220), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1500), Analyst (LMH)



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Client Sample ID: K31-02 1023 (KS)	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:01
Lab Sample ID: 18J1479-05	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	12.0	20.0	1.0	ppb		11/06/18 1303	11/06/18 1504	LMH

Client Sample ID: K31-03 1023 (KS)	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:02
Lab Sample ID: 18J1479-06	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	4.2	20.0	1.0	ppb		11/06/18 1303	11/06/18 1505	LMH

Client Sample ID: K31-04 1023 (KS)	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:02
Lab Sample ID: 18J1479-07	

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		11/06/18 1303	11/06/18 1508	LMH

Client Sample ID: W01A-01 1023 (DF)	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:12
Lab Sample ID: 18J1479-08	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		11/06/18 1303	11/06/18 1511	LMH



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Client Sample ID: S23-41 1023 (TL)	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:06
Lab Sample ID: 18J1479-09	

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		11/06/18 1303	11/06/18 1512	LMH

Client Sample ID: K17-01 1023 (IM)	Collected By: Walter Gonzalez
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:06
Lab Sample ID: 18J1479-10	

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		11/06/18 1303	11/06/18 1513	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: 18.3°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 16:04

Reviewed By: II

Date: 10/30/18



18J1479



Multiple Sample COC

Site: **Waverley Elementary: 201 Waverley Drive, Frederick, MD 21702, Office Ph.: 240-236-3900**

Date Sampled: **Tuesday, October 30, 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-03 1023 (DF)	10/30/2018 4:05	Walter Gonzales
2	C-Hall	Drinking Fountain, Refrigerated	W01A-02 1023 (DF)	10/30/2018 4:15	Walter Gonzales
3	health room sink	Non-Kitchen lavatory/Sink	S23-45 1023 (NO)	10/30/2018 4:08	Walter Gonzales
4	Kitchen	Sink, Kitchen	K31-01 1023 (KS)	10/30/2018 4:01	Walter Gonzales
5	Kitchen	Sink, Kitchen	K31-02 1023 (KS)	10/30/2018 4:01	Walter Gonzales
6	Kitchen	Sink, Kitchen	K31-03 1023 (KS)	10/30/2018 4:02	Walter Gonzales
7	Kitchen	Sink, Kitchen	K31-04 1023 (KS)	10/30/2018 4:02	Walter Gonzales
8	Media Center	Drinking Fountain, Refrigerated	W01A-01 1023 (DF)	10/30/2018 4:12	Walter Gonzales
9	staff lounge kitchen sink	Non-Kitchen lavatory/Sink	S23-41 1023 (TL)	10/30/2018 4:06	Walter Gonzales
10	Teachers Lounge	Ice Machine	K17-01 1023 (IM)	10/30/2018 4:06	Walter Gonzales
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Samples Relinquished By: Walter Gonzales
 Samples Received By: [Signature]
 Temp: 18.3

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: Evelyn Metz
 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: 10/30/18 6:34
 Work Order # 18J1479

Microbac Client UPS FedEx

YES / NO / NA

YES / NO

YES / NO / NA

Infrared (IR) Temperature: 18.3 °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 -	<input checked="" type="checkbox"/> 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 H2SO4 HNO3 NaOH 1 mls added to preserve for analysis
 Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added requested. (True 10/30/18)
 Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added 10A
 Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added

H2SO4 - Sulfuric Acid, HNO3 - Nitric Acid, NaOH - Sodium Hydroxide, ASC - Ascorbic Acid, NaTHIO - Sodium Thiosulfate

Describe Anomalies: _____

Contact information / Summary of Actions:

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

Comments: _____

