



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18J1477

Tidewater

Project Name: Parkway 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-02 1002 (DF), Drinking Water, 18J1477-01, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Lead, Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1358), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01B-01 1002 (DF), Drinking Water, 18J1477-02, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Lead, Result (1.1), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1401), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01B-02 1002 (DF), Drinking Water, 18J1477-03, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Lead, Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1402), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-01 1002 (DF), Drinking Water, 18J1477-04, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Lead, Result (<1.0), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (11/06/18 1303), Analyzed (11/06/18 1403), Analyst (LMH)



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Client Sample ID: W01B-03 1002 (DF)	Collected By: cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:17
Lab Sample ID: 18J1477-05	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		11/06/18 1303	11/06/18 1404	LMH

Client Sample ID: S23-25 1002 (NO)	Collected By: cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:06
Lab Sample ID: 18J1477-06	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.0	1.0	ppb		11/06/18 1303	11/06/18 1405	LMH

Client Sample ID: K19-02 1002 (OT)	Collected By: cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:13
Lab Sample ID: 18J1477-07	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.2	20.0	1.0	ppb		11/06/18 1303	11/06/18 1409	LMH

Client Sample ID: K31-01 1002 (KS)	Collected By: cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:10
Lab Sample ID: 18J1477-08	

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 1410	LMH



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Client Sample ID: K31-02 1002 (KS)	Collected By: cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/30/2018 4:12
Lab Sample ID: 18J1477-09	

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 1411	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: °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
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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 16:00



1811477

Multiple Sample COC

Site: **Parkway Elementary: 300 Carroll Parkway, Frederick, MD 21701, Office Ph.: 240-236-2600**

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	1st floor by Custodial Office	Drinking Fountain, Refrigerated	W01A-02 1002 (DF)	10/30/2018 4.19 am	Cheruka Weerakoon
2	2nd Floor across from Library	Drinking Fountain, Non-Refrigerated	W01B-01 1002 (DF)	10/30/2018 4.23 am	Cheruka Weerakoon
3	2nd Floor near Boys BR	Drinking Fountain, Non-Refrigerated	W01B-02 1002 (DF)	10/30/2018 4.21 am	Cheruka Weerakoon
4	Across from Cafeteria	Drinking Fountain, Refrigerated	W01A-01 1002 (DF)	10/30/2018 4.03 am	Cheruka Weerakoon
5	By Front Entrance	Drinking Fountain, Non-Refrigerated	W01B-03 1002 (DF)	10/30/2018 4.17 am	Cheruka Weerakoon
6	Health Room	Non-Kitchen lavatory/Sink	S23-25 1002 (NO)	10/30/2018 4.06 am	Cheruka Weerakoon
7	Kitchen	KETTLE	K19-02 1002 (OT)	10/30/2018 4.13 am	Cheruka Weerakoon
8	Kitchen	Sink, Kitchen	K31-01 1002 (KS)	10/30/2018 4.18 am	Cheruka Weerakoon
9	Kitchen	Sink, Kitchen	K31-02 1002 (KS)	10/30/2018 4.12	Cheruka Weerakoon
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	10/30/2018	Kevin Rodgers
Samples Relinquished By:				<i>Cheruka Weerakoon</i> 10/30/18	
Samples Received By:				<i>Kevin Rodgers</i>	
Temp:				19.6	

19.6°

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: Evelyn Matry
 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 # 18J1477

Microbac Client UPS FedEx

YES / NO / NA

YES / NO

YES / NO / NA

Infrared (IR) Temperature: 19.6°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>9</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	(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 10/30/18
 Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added 10/19
 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: _____

