



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18K1405

Revised Report: Report Amended to change project name

Tidewater

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

Project Name: Lincoln Elementary School A

Building
Project / PO Number: N/A
Received: 11/30/2018
Reported: 02/05/2019

Analytical Testing Parameters

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01B-01 1005 (DF), Drinking Water, 18K1405-01, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Lead, Result (3.6), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (12/14/18 0931), Analyzed (12/20/18 1548), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01B-04 1005 (DF), Drinking Water, 18K1405-02, etc.)

Metals, Total by EPA 200 Series Methods

Method: EPA 200.2/EPA 200.8

Table with 9 columns: Lead, Result (2.8), Limit(s) (20.0), RL (1.0), Units (ppb), Note, Prepared (12/14/18 0931), Analyzed (12/20/18 1550), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01B-03 1005 (DF), Drinking Water, 18K1405-03, 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 (12/14/18 0931), Analyzed (12/20/18 1551), Analyst (LMH)

Table with 2 columns: Parameter (Client Sample ID, Sample Matrix, Lab Sample ID) and Value (W01A-02 1005 (DF), Drinking Water, 18K1405-04, 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 (12/14/18 0931), Analyzed (12/20/18 1552), Analyst (LMH)



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Client Sample ID: W01A-01 1005 (DF)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 11/30/2018 4:30
Lab Sample ID: 18K1405-05	

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		12/14/18 0931	12/20/18 1553	LMH

Client Sample ID: S23-22 1005 (NO)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 11/30/2018 4:35
Lab Sample ID: 18K1405-06	

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		12/14/18 0931	12/20/18 1554	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: 19.1°C

Cooler Inspection Checklist

Ice Present or not required?	Yes	Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes	Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes	Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes	Sample type identified on COC?	Yes
Correct type of Containers Received	Yes	Correct number of containers listed on COC?	Yes
Containers Intact?	No	COC includes requested analyses?	No
Enough sample volume for indicated tests received?	No	Sample labels match COC (Name, Date & Time?)	No
Samples arrived within hold time?	No	Correct preservatives on COC or not required?	No
Chemical preservations checked or not required?	No	Preservation checks meet method requirements?	No
VOA vials have zero headspace, or not recd.?	No		

Project Requested Certification(s)

Microbac Laboratories, Inc. - Baltimore
109

State of Maryland (Drinking Water)



Microbac Laboratories, Inc. - Baltimore

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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:

A handwritten signature in black ink, appearing to read "Jake Mason", is written over a light gray rectangular background.

Jake Mason

Client Relations

Reported: 02/05/2019 15:36

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: Elizabeth Mety
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: 11-30-18 200
Work Order # 18K1405
 Microbac Client UPS FedEx
YES / NO / NA
YES / NO
YES / NO / NA
Infrared (IR) Temperature: 19.1 °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 -	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: _____ H₂SO₄ HNO₃ NaOH _____ mls added
 Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added
 Sample ID: _____ H₂SO₄ HNO₃ NaOH _____ mls added
 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: _____

