



DRAFT REPORT

CERTIFICATE OF ANALYSIS

18J1353

Tidewater

Project Name: Crestwood Middle

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

Project / PO Number: N/A
Received: 10/26/2018
Reported: 11/21/2018

Analytical Testing Parameters

Client Sample ID:	S23-038 2104 (NO)	Collected By:	Cheruka Weerakoon
Sample Matrix:	Drinking Water	Collection Date:	10/26/2018 3:15
Lab Sample ID:	18J1353-01		

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.2/EPA 200.8

Lead	<1.0	20.0	1.0	ppb		10/29/18 0916	10/29/18 1413	GHW
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Client Sample ID:	S23-032 2104 (TL)	Collected By:	Cheruka Weerakoon
Sample Matrix:	Drinking Water	Collection Date:	10/26/2018 3:17
Lab Sample ID:	18J1353-02		

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.2/EPA 200.8

Lead	1.0	20.0	1.0	ppb		10/29/18 0916	10/29/18 1416	GHW
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Client Sample ID:	S23-039 2104 (TL)	Collected By:	Cheruka Weerakoon
Sample Matrix:	Drinking Water	Collection Date:	10/26/2018 3:18
Lab Sample ID:	18J1353-03		

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.2/EPA 200.8

Lead	1.1	20.0	1.0	ppb		10/29/18 0916	10/29/18 1420	GHW
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Client Sample ID:	S23-109 2104 (HE)	Collected By:	Cheruka Weerakoon
Sample Matrix:	Drinking Water	Collection Date:	10/26/2018 3:46
Lab Sample ID:	18J1353-04		

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
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Method: EPA 200.2/EPA 200.8

Lead	1.3	20.0	1.0	ppb		10/29/18 0916	10/29/18 1421	GHW
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Client Sample ID: S23-110 2104 (HE)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:47
Lab Sample ID: 18J1353-05	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.4	20.0	1.0	ppb		10/29/18 0916	10/29/18 1422	GHW

Client Sample ID: S23-111 2104 (HE)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:48
Lab Sample ID: 18J1353-06	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	2.0	20.0	1.0	ppb		10/29/18 0916	10/29/18 1423	GHW

Client Sample ID: S23-115 2104 (HE)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:55
Lab Sample ID: 18J1353-07	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.1	20.0	1.0	ppb		10/29/18 0916	10/29/18 1424	GHW

Client Sample ID: S23-116 2104 (HE)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:57
Lab Sample ID: 18J1353-08	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.2	20.0	1.0	ppb		10/29/18 0916	10/29/18 1425	GHW



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Client Sample ID: W01A-07 2104 (DF)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:39
Lab Sample ID: 18J1353-09	

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		10/29/18 0916	10/29/18 1426	GHW

Client Sample ID: S23-112 2104 (HE)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:42
Lab Sample ID: 18J1353-10	

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		10/29/18 0916	10/29/18 1427	GHW

Client Sample ID: S23-113 2104 (HE)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:52
Lab Sample ID: 18J1353-11	

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		10/29/18 0916	10/29/18 1428	GHW

Client Sample ID: S23-114 2104 (HE)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:53
Lab Sample ID: 18J1353-12	

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		10/29/18 0916	10/29/18 1431	GHW



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Client Sample ID: K17-07 2104 (IM)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 4:17
Lab Sample ID: 18J1353-13	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.9	20.0	1.0	ppb		10/29/18 0916	10/29/18 1434	GHW

Client Sample ID: K17-01 2104 (IM)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 4:16
Lab Sample ID: 18J1353-14	

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		10/29/18 0916	10/29/18 1435	GHW

Client Sample ID: K31-01 2104 (KS)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 4:04
Lab Sample ID: 18J1353-15	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	5.3	20.0	1.0	ppb		10/29/18 0916	10/29/18 1436	GHW

Client Sample ID: K31-02 2104 (KS)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 4:06
Lab Sample ID: 18J1353-16	

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		10/29/18 0916	10/29/18 1436	GHW



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Client Sample ID: K31-03 2104 (KS)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 4:08
Lab Sample ID: 18J1353-17	

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		10/29/18 0916	10/29/18 1437	GHW

Client Sample ID: K31-04 2104 (KS)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 4:10
Lab Sample ID: 18J1353-18	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.4	20.0	1.0	ppb		10/29/18 0916	10/29/18 1438	GHW

Client Sample ID: K31-05 2104 (KS)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 4:12
Lab Sample ID: 18J1353-19	

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		10/29/18 0916	10/29/18 1439	GHW

Client Sample ID: K17-02 2104 (IM)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:23
Lab Sample ID: 18J1353-20	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	5.3	20.0	1.0	ppb		10/29/18 0916	10/29/18 1442	GHW



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Client Sample ID: K17-03 2104 (IM)	Collected By: Cheruka Weerakoon
Sample Matrix: Drinking Water	Collection Date: 10/26/2018 3:27
Lab Sample ID: 18J1353-21	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	44.8	20.0	1.0	ppb		10/29/18 0916	10/29/18 1443	GHW

*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:** 18.5°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 15:57



Reviewed By: TI
 Date: 10/30/18

Multiple Sample COC

Site: **Crestwood Middle: 7100 Foxcroft Drive, Frederick, MD 21703, Office Ph.: 240-566-9000**

18J1353

Date Sampled: **Friday, October 26, 2018**

Row	Area Number/Room/Space	From Item Description	Sample Name:	Date/Time Sampled (ex: 03/01/2018 13:28)	Sampler's Name
1	A108 Science	Non-Kitchen lavatory/Sink	S23-038 2104 (NO)	10/26/2018 3:15 am	Cheruka Weerakoon
2	A108- Science	Non-Kitchen lavatory/Sink	S23-032 2104 (TL)	10/26/2018 3:17 am	Cheruka Weerakoon
3	A108- Science	Non-Kitchen lavatory/Sink	S23-039 2104 (TL)	10/26/2018 3:18 am	Cheruka Weerakoon
4	Across Gym- Boy's Bathroom	Non-Kitchen lavatory/Sink	S23-109 2104 (HE)	10/26/2018 3:46 am	Cheruka Weerakoon
5	Across Gym- Boy's Bathroom	Non-Kitchen lavatory/Sink	S23-110 2104 (HE)	10/26/2018 3:47 am	Cheruka Weerakoon
6	Across Gym- Boy's Bathroom	Non-Kitchen lavatory/Sink	S23-111 2104 (HE)	10/26/2018 3:48 am	Cheruka Weerakoon
7	Boy's Locker Room	Non-Kitchen lavatory/Sink	S23-115 2104 (HE)	10/26/2018 3:55 am	Cheruka Weerakoon
8	Boy's Locker Room	Non-Kitchen lavatory/Sink	S23-116 2104 (HE)	10/26/2018 3:57 am	Cheruka Weerakoon
9	C WING	Drinking Fountain, Refrigerated	W01A-07 2104 DF	10/26/2018 3:39 am	Cheruka Weerakoon
10	C135- Custodial	Non-Kitchen lavatory/Sink	S23-112 2104 (HE)	10/26/2018 3:42 am	Cheruka Weerakoon
11	D137- Girl's Locker Room	Non-Kitchen lavatory/Sink	S23-113 2104 (HE)	10/26/2018 3:52 am	Cheruka Weerakoon
12	D137- Girl's Locker Room	Non-Kitchen lavatory/Sink	S23-114 2104 (HE)	10/26/2018 3:53 am	Cheruka Weerakoon
13	Health Lounge	Ice Machine	K17-07 2104 (IM)	10/26/2018 4:12 am	Cheruka Weerakoon
14	Kitchen	Ice Machine	K17-01 2104 (IM)	10/26/2018 4:14 am	Cheruka Weerakoon
15	Kitchen	Sink, Kitchen	K31-01 2104 (KS)	10/26/2018 4:04 am	Cheruka Weerakoon
16	Kitchen	Sink, Kitchen	K31-02 2104 (KS)	10/26/2018 4:06 am	Cheruka Weerakoon
17	Kitchen	Sink, Kitchen	K31-03 2104 (KS)	10/26/2018 4:08 am	Cheruka Weerakoon
18	Kitchen	Sink, Kitchen	K31-04 2104 (KS)	10/26/2018 4:10 am	Cheruka Weerakoon
19	Kitchen	Sink, Kitchen	K31-05 2104 (KS)	10/26/2018 4:12 am	Cheruka Weerakoon
20	RM A111	Ice Machine	K17-02 2104 (IM)	10/26/2018 3:23 am	Cheruka Weerakoon
Samples Relinquished By:				Cheruka Weerakoon	10/26/18
Samples Received By:				Scott Darden	10/26/18 @ 6:30
Temp:					

18J1353



18.5°C provided on ice

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: HW Wilting
 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: 10/26/18 0630
 Work Order # 18J1352/1353/1355

Microbac Client UPS FedEx
YES / NO / NA
YES / NO
 YES NO / NA
 Infrared (IR) Temperature: 18.5 °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>55</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 - HW 10/26/18
 Sample ID: _____ H2SO4 HNO3 NaOH _____ mls added 1208
 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: _____

