



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18J0348

Froehling & Robertson, Inc. - Dulles

Stephanie Santiago
22923 Quicksilver Drive, Suite 111
Dulles, VA 20102

Project Name: Howard County DW - 73W-0004 -

Oakland Mills MS
Project / PO Number: N/A
Received: 10/01/2018
Reported: 10/23/2018

Analytical Testing Parameters

Table with 3 rows: Client Sample ID (OMMS-1), Sample Matrix (Drinking Water), Lab Sample ID (18J0348-01). Includes red text: VOID. ACTUAL FIXTURE NOT PLUMBED. SAMPLER SAMPLED FROM HANDWASHING SINK NOT ASSIGNED TO BE SAMPLED. JK. Collected By: Stephanie Santiago, Collection Date: 09/29/2018 5:32.

Table with 8 columns: Metals, Total by EPA 200 Series Methods, Result, RL, Units, Note, Prepared, Analyzed, Analyst. Row 1: Method: EPA 200.2/EPA 200.8, Lead, 3.6, 1.0, ppb, 10/04/18 0709, 10/05/18 1043, GHW.

Table with 3 rows: Client Sample ID (OMMS-2), Sample Matrix (Drinking Water), Lab Sample ID (18J0348-02). Includes red text: VOID. ACTUAL FXITURE ASSIGNED NOT SAMPLED. SAMPLER SAMPLED HANDWASHING SINK NOT ASSIGNED TO BE SAMPLED. HCPSS WILL SAMPLE ASSIGNED FIXTURE. JK. Collected By: Stephanie Santiago, Collection Date: 09/29/2018 5:33.

Table with 8 columns: Metals, Total by EPA 200 Series Methods, Result, RL, Units, Note, Prepared, Analyzed, Analyst. Row 1: Method: EPA 200.2/EPA 200.8, Lead, 20.8, 1.0, ppb, 10/04/18 0709, 10/05/18 1046, GHW.

Table with 3 rows: Client Sample ID (OMMS-3), Sample Matrix (Drinking Water), Lab Sample ID (18J0348-03). Collected By: Stephanie Santiago, Collection Date: 09/29/2018 6:10.

Table with 8 columns: Metals, Total by EPA 200 Series Methods, Result, RL, Units, Note, Prepared, Analyzed, Analyst. Row 1: Method: EPA 200.2/EPA 200.8, Lead, <1.0, 1.0, ppb, 10/04/18 0709, 10/05/18 1048, GHW.

Table with 3 rows: Client Sample ID (OMMS-4), Sample Matrix (Drinking Water), Lab Sample ID (18J0348-04). Collected By: Stephanie Santiago, Collection Date: 09/29/2018 5:37.

Table with 8 columns: Metals, Total by EPA 200 Series Methods, Result, RL, Units, Note, Prepared, Analyzed, Analyst. Row 1: Method: EPA 200.2/EPA 200.8, Lead, <1.0, 1.0, ppb, 10/04/18 0709, 10/05/18 1049, GHW.



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Client Sample ID: OMMS-5	Sample Matrix: Drinking Water	Collected By: Stephanie Santiago
Lab Sample ID: 18J0348-05		Collection Date: 09/29/2018 5:39

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	2.7	1.0	ppb		10/04/18 0709	10/05/18 1050	GHW

Client Sample ID: OMMS-6	Sample Matrix: Drinking Water	Collected By: Stephanie Santiago
Lab Sample ID: 18J0348-06		Collection Date: 09/29/2018 5:40

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	<1.0	1.0	ppb		10/04/18 0709	10/05/18 1051	GHW

Client Sample ID: OMMS-7	Sample Matrix: Drinking Water	Collected By: Stephanie Santiago
Lab Sample ID: 18J0348-07		Collection Date: 09/29/2018 5:43

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	<1.0	1.0	ppb		10/04/18 0709	10/05/18 1056	GHW

Client Sample ID: OMMS-8	Sample Matrix: Drinking Water	Collected By: Stephanie Santiago
Lab Sample ID: 18J0348-08		Collection Date: 09/29/2018 5:50

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	12.0	1.0	ppb		10/04/18 0709	10/05/18 1057	GHW

Client Sample ID: OMMS-9	Sample Matrix: Drinking Water	Collected By: Stephanie Santiago
Lab Sample ID: 18J0348-09		Collection Date: 09/29/2018 5:53

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	14.1	1.0	ppb		10/04/18 0709	10/05/18 1058	GHW



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Client Sample ID: OMMS-10	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:54
Lab Sample ID: 18J0348-10	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	8.6	1.0	ppb		10/04/18 0709	10/05/18 1100	GHW

Client Sample ID: OMMS-11	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:55
Lab Sample ID: 18J0348-11	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	21.8	1.0	ppb		10/04/18 0709	10/05/18 1101	GHW

Client Sample ID: OMMS-12	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:51
Lab Sample ID: 18J0348-12	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	9.1	1.0	ppb		10/04/18 0709	10/05/18 1104	GHW

Client Sample ID: OMMS-13	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:52
Lab Sample ID: 18J0348-13	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	19.8	1.0	ppb		10/04/18 0709	10/05/18 1106	GHW

Client Sample ID: OMMS-14	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 6:10
Lab Sample ID: 18J0348-14	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	<1.0	1.0	ppb		10/04/18 0709	10/05/18 1107	GHW



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Client Sample ID: OMMS-15	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 6:20
Lab Sample ID: 18J0348-15	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	<1.0	1.0	ppb		10/04/18 0709	10/05/18 1112	GHW

Client Sample ID: OMMS-16	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 6:23
Lab Sample ID: 18J0348-16	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	90.3	1.0	ppb		10/04/18 0709	10/05/18 1113	GHW

Client Sample ID: OMMS-17	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 6:24
Lab Sample ID: 18J0348-17	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	26.6	1.0	ppb		10/04/18 0709	10/05/18 1114	GHW

Client Sample ID: OMMS-18	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 6:44
Lab Sample ID: 18J0348-18	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	<1.0	1.0	ppb		10/04/18 0709	10/05/18 1115	GHW

Client Sample ID: OMMS-19	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 6:31
Lab Sample ID: 18J0348-19	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	1.9	1.0	ppb		10/04/18 0709	10/05/18 1116	GHW



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Client Sample ID: OMMS-20	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 6:44
Lab Sample ID: 18J0348-20	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	170	1.0	ppb		10/04/18 0709	10/05/18 1118	GHW

Client Sample ID: OMMS-21	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 6:45
Lab Sample ID: 18J0348-21	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	11.3	1.0	ppb		10/04/18 0709	10/05/18 1121	GHW

Client Sample ID: OMMS-22	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 7:01
Lab Sample ID: 18J0348-22	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	<1.0	1.0	ppb		10/04/18 0709	10/05/18 1128	GHW

Client Sample ID: OMMS-24	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 7:06
Lab Sample ID: 18J0348-23	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	<1.0	1.0	ppb		10/04/18 0709	10/05/18 1130	GHW

Client Sample ID: OMMS-25	Collected By: Stephanie Santiago
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:57
Lab Sample ID: 18J0348-24	

Metals, Total by EPA 200 Series Methods	Result	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8							
Lead	288	1.0	ppb		10/04/18 0709	10/05/18 1131	GHW

Definitions

RL: Reporting Limit



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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 "Isang Isang", is written over a light grey rectangular background.

Isang Isang
Client Relations

Reported: 10/23/2018 09:58

Microbac Laboratories, Inc.

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