



Microbac Laboratories, Inc. - Baltimore

CERTIFICATE OF ANALYSIS

18J0376

KCI Technologies

Project Name: Patapsco Middle School

Tehsin Aurangabadwala
936 Ridgebrook Road
Sparks, MD 21152

Project / PO Number: N/A
Received: 10/01/2018
Reported: 10/09/2018

Analytical Testing Parameters

Table with 2 columns: Client Sample ID, Sample Matrix, Lab Sample ID and Collected By, Collection Date. Values include PMS-1, Drinking Water, 18J0376-01, Customer, 09/29/2018 5:09.

Table header: Metals, Total by EPA 200 Series Methods. Columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst.

Table row: Method: EPA 200.2/EPA 200.8. Lead. Result: <1.0, Limit(s): 20.5, RL: 1.0, Units: ppb, Prepared: 10/04/18 1113, Analyzed: 10/05/18 1158, Analyst: GHW.

Table with 2 columns: Client Sample ID, Sample Matrix, Lab Sample ID and Collected By, Collection Date. Values include PMS-2, Drinking Water, 18J0376-02, Customer, 09/29/2018 5:11.

Table header: Metals, Total by EPA 200 Series Methods. Columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst.

Table row: Method: EPA 200.2/EPA 200.8. Lead. Result: 9.3, Limit(s): 20.5, RL: 1.0, Units: ppb, Prepared: 10/04/18 1113, Analyzed: 10/05/18 1202, Analyst: GHW.

Table with 2 columns: Client Sample ID, Sample Matrix, Lab Sample ID and Collected By, Collection Date. Values include PMS-3, Drinking Water, 18J0376-03, Customer, 09/29/2018 5:15.

Table header: Metals, Total by EPA 200 Series Methods. Columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst.

Table row: Method: EPA 200.2/EPA 200.8. Lead. Result: 73.5, Limit(s): 20.5, RL: 1.0, Units: ppb, Prepared: 10/04/18 1113, Analyzed: 10/05/18 1203, Analyst: GHW.

Table with 2 columns: Client Sample ID, Sample Matrix, Lab Sample ID and Collected By, Collection Date. Values include PMS-4, Drinking Water, 18J0376-04, Customer, 09/29/2018 5:17.

Table header: Metals, Total by EPA 200 Series Methods. Columns: Result, Limit(s), RL, Units, Note, Prepared, Analyzed, Analyst.

Table row: Method: EPA 200.2/EPA 200.8. Lead. Result: 7.8, Limit(s): 20.5, RL: 1.0, Units: ppb, Prepared: 10/04/18 1113, Analyzed: 10/05/18 1204, Analyst: GHW.



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Client Sample ID: PMS-5	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:20
Lab Sample ID: 18J0376-05	

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	20.5	1.0	ppb		10/04/18 1113	10/05/18 1205	GHW

Client Sample ID: PMS-6	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:42
Lab Sample ID: 18J0376-06	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	3.9	20.5	1.0	ppb		10/04/18 1113	10/05/18 1206	GHW

Client Sample ID: PMS-7	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:23
Lab Sample ID: 18J0376-07	

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	20.5	1.0	ppb		10/04/18 1113	10/05/18 1211	GHW

Client Sample ID: PMS-8	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:24
Lab Sample ID: 18J0376-08	

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	20.5	1.0	ppb		10/04/18 1113	10/05/18 1212	GHW



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Client Sample ID: PMS-9	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:25
Lab Sample ID: 18J0376-09	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.2	20.5	1.0	ppb		10/04/18 1113	10/05/18 1214	GHW

Client Sample ID: PMS-10	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:27
Lab Sample ID: 18J0376-10	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	16.1	20.5	1.0	ppb		10/05/18 1206	10/08/18 1316	GHW

Client Sample ID: PMS-11	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:29
Lab Sample ID: 18J0376-11	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	2.6	20.5	1.0	ppb		10/04/18 1113	10/05/18 1215	GHW

Client Sample ID: PMS-12	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:31
Lab Sample ID: 18J0376-12	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	9.4	20.5	1.0	ppb		10/04/18 1113	10/05/18 1216	GHW



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Client Sample ID: PMS-13	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:32
Lab Sample ID: 18J0376-13	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	4.1	20.5	1.0	ppb		10/04/18 1113	10/05/18 1220	GHW

Client Sample ID: PMS-14	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:34
Lab Sample ID: 18J0376-14	

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	20.5	1.0	ppb		10/04/18 1113	10/05/18 1221	GHW

Client Sample ID: PMS-15	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:37
Lab Sample ID: 18J0376-15	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	4.4	20.5	1.0	ppb		10/04/18 1113	10/05/18 1222	GHW

Client Sample ID: PMS-16	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:40
Lab Sample ID: 18J0376-16	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	11.8	20.5	1.0	ppb		10/04/18 1113	10/05/18 1227	GHW



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Client Sample ID: PMS-17	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:41
Lab Sample ID: 18J0376-17	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	7.9	20.5	1.0	ppb		10/04/18 1113	10/05/18 1228	GHW

Client Sample ID: PMS-18	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:45
Lab Sample ID: 18J0376-18	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	5.3	20.5	1.0	ppb		10/04/18 1113	10/05/18 1229	GHW

Client Sample ID: PMS-19	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:46
Lab Sample ID: 18J0376-19	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	19.7	20.5	1.0	ppb		10/04/18 1113	10/05/18 1231	GHW

Client Sample ID: PMS-20	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:47
Lab Sample ID: 18J0376-20	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	<1.0	20.5	1.0	ppb		10/04/18 1113	10/05/18 1232	GHW



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Client Sample ID: PMS-21	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:48
Lab Sample ID: 18J0376-21	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	11.3	20.5	1.0	ppb		10/04/18 1113	10/05/18 1233	GHW

Client Sample ID: PMS-22	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:50
Lab Sample ID: 18J0376-22	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	4.5	20.5	1.0	ppb		10/04/18 1113	10/05/18 1237	GHW

Client Sample ID: PMS-23	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:51
Lab Sample ID: 18J0376-23	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	3.9	20.5	1.0	ppb		10/04/18 1113	10/05/18 1244	GHW

Client Sample ID: PMS-24	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:58
Lab Sample ID: 18J0376-24	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	3.7	20.5	1.0	ppb		10/04/18 1113	10/05/18 1245	GHW



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Client Sample ID: PMS-25	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:54
Lab Sample ID: 18J0376-25	

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	13.1	20.5	1.0	ppb		10/04/18 1113	10/05/18 1246	GHW

Client Sample ID: PMS-26	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:53
Lab Sample ID: 18J0376-26	

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	26.1	20.5	1.0	ppb		10/04/18 1113	10/05/18 1247	GHW

Client Sample ID: PMS-27	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:51
Lab Sample ID: 18J0376-27	

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	23.5	20.5	1.0	ppb		10/04/18 1113	10/05/18 1249	GHW

Client Sample ID: PMS-28	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:56
Lab Sample ID: 18J0376-28	

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	31.1	20.5	1.0	ppb		10/04/18 1113	10/05/18 1250	GHW



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Client Sample ID: PMS-29	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:44
Lab Sample ID: 18J0376-29	

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	20.5	1.0	ppb		10/04/18 1113	10/05/18 1251	GHW

Client Sample ID: PMS-30	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:46
Lab Sample ID: 18J0376-30	

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	20.5	1.0	ppb		10/04/18 1113	10/05/18 1252	GHW

Client Sample ID: PMS-31	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:39
Lab Sample ID: 18J0376-31	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.3	20.5	1.0	ppb		10/04/18 1113	10/05/18 1254	GHW

Client Sample ID: PMS-32	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:33
Lab Sample ID: 18J0376-32	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	11.1	20.5	1.0	ppb		10/04/18 1113	10/05/18 1258	GHW



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Client Sample ID: PMS-33	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:31
Lab Sample ID: 18J0376-33	

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	20.5	1.0	ppb		10/04/18 1113	10/05/18 1302	GHW

Client Sample ID: PMS-34	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:28
Lab Sample ID: 18J0376-34	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	23.2	20.5	1.0	ppb		10/04/18 1113	10/05/18 1303	GHW

Client Sample ID: PMS-35	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:26
Lab Sample ID: 18J0376-35	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	16.1	20.5	1.0	ppb		10/04/18 1113	10/05/18 1304	GHW

Client Sample ID: PMS-36	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:24
Lab Sample ID: 18J0376-36	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	14.2	20.5	1.0	ppb		10/04/18 1113	10/05/18 1306	GHW



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Client Sample ID: PMS-37	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:23
Lab Sample ID: 18J0376-37	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	7.2	20.5	1.0	ppb		10/04/18 1113	10/05/18 1307	GHW

Client Sample ID: PMS-38	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:22
Lab Sample ID: 18J0376-38	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	14.4	20.5	1.0	ppb		10/04/18 1113	10/05/18 1308	GHW

Client Sample ID: PMS-39	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:21
Lab Sample ID: 18J0376-39	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	6.5	20.5	1.0	ppb		10/04/18 1113	10/05/18 1309	GHW

Client Sample ID: PMS-40	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:20
Lab Sample ID: 18J0376-40	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	10.5	20.5	1.0	ppb		10/04/18 1113	10/05/18 1314	GHW



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Client Sample ID: PMS-42	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:09
Lab Sample ID: 18J0376-41	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	1.8	20.5	1.0	ppb		10/04/18 1113	10/05/18 1315	GHW

Client Sample ID: PMS-43	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:08
Lab Sample ID: 18J0376-42	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	7.0	20.5	1.0	ppb		10/04/18 1113	10/05/18 1319	GHW

Client Sample ID: PMS-44	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:11
Lab Sample ID: 18J0376-43	

Metals, Total by EPA 200 Series Methods	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.2/EPA 200.8								
Lead	2.5	20.5	1.0	ppb		10/04/18 1113	10/05/18 1323	GHW

Client Sample ID: PMS-45	Collected By: Customer
Sample Matrix: Drinking Water	Collection Date: 09/29/2018 5:15
Lab Sample ID: 18J0376-44	

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	20.5	1.0	ppb		10/04/18 1113	10/05/18 1324	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



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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 gray rectangular background.

Isang Isang

Client Relations

Reported: 10/09/2018 09:09