Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

10 March 2020

Michael Hamill
ECS-Chantilly
14026 Thunderbolt Place, Suite 100
Chantilly, VA 20151
RE: ACPS-TC

Enclosed are the results of analyses for samples received by the laboratory on 03/03/20 15:30.

Please visit our website at www.mdspectral.com for a complete listing of our accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Will Brewington
President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TC-01-A122S		0030315-01	Drinking Water	03/03/20 05:05	03/03/20 15:30
TC-02-A122FS		0030315-02	Drinking Water	03/03/20 05:07	03/03/20 15:30
TC-03-A118S		0030315-03	Drinking Water	03/03/20 05:10	03/03/20 15:30
TC-04-A116S		0030315-04	Drinking Water	03/03/20 05:12	03/03/20 15:30
TC-05-TW LAB S		0030315-05	Drinking Water	03/03/20 05:16	03/03/20 15:30
TC-06-TW BATH S		0030315-06	Drinking Water	03/03/20 05:17	03/03/20 15:30
TC-07-TW EXAM RIGHT S		0030315-07	Drinking Water	03/03/20 05:19	03/03/20 15:30
TC-08-TW EXAM LEFT S		0030315-08	Drinking Water	03/03/20 05:20	03/03/20 15:30
TC-09-C102 K S		0030315-09	Drinking Water	03/03/20 05:25	03/03/20 15:30
TC-10-C102 HAND S		0030315-10	Drinking Water	03/03/20 05:26	03/03/20 15:30
TC-11-C102 WARMING S		0030315-11	Drinking Water	03/03/20 05:27	03/03/20 15:30
TC-12-B127S		0030315-12	Drinking Water	03/03/20 05:33	03/03/20 15:30
TC-13-B127 CLOSET S		0030315-13	Drinking Water	03/03/20 05:34	03/03/20 15:30
TC-14-D108 S		0030315-14	Drinking Water	03/03/20 05:45	03/03/20 15:30
TC-15-D103 S		0030315-15	Drinking Water	03/03/20 05:47	03/03/20 15:30
TC-16-E110 S2		0030315-16	Drinking Water	03/03/20 05:52	03/03/20 15:30
TC-17-E110 S1		0030315-17	Drinking Water	03/03/20 05:54	03/03/20 15:30
TC-18- E120 S		0030315-18	Drinking Water	03/03/20 05:56	03/03/20 15:30
TC-19- B218S		0030315-19	Drinking Water	03/03/20 06:00	03/03/20 15:30
TC-20- C216F		0030315-20	Drinking Water	03/03/20 06:05	03/03/20 15:30
TC-21- C2116F BATH S		0030315-21	Drinking Water	03/03/20 06:10	03/03/20 15:30
TC-22- A216S		0030315-22	Drinking Water	03/03/20 06:11	03/03/20 15:30
TC-23- B318S		0030315-23	Drinking Water	03/03/20 06:15	03/03/20 15:30
TC-24- C3112 TDS		0030315-24	Drinking Water	03/03/20 06:18	03/03/20 15:30
TC-25- C312 S1		0030315-25	Drinking Water	03/03/20 06:19	03/03/20 15:30

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TC-26- C312 S2		0030315-26	Drinking Water	03/03/20 06:20	03/03/20 15:30
TC-27- C312 S3		0030315-27	Drinking Water	03/03/20 06:22	03/03/20 15:30
TC-28- C312 S4		0030315-28	Drinking Water	03/03/20 06:23	03/03/20 15:30
TC-28- C312 S5		0030315-29	Drinking Water	03/03/20 06:24	03/03/20 15:30

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-01-A122S

0030315-01 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**89.2**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:15	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:15	VVD

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MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-02-A122FS

0030315-02 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**180**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:17	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:17	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-03-A118S

0030315-03 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**174**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:20	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:20	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-04-A116S

0030315-04 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**168**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:22	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:22	VVD

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Reported:
03/10/20 16:36

TC-05-TW LAB S

0030315-05 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**111**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:29	VVD
Lead	**1.82**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:29	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-06-TW BATH S

0030315-06 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**175**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:32	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:32	VVD

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Reported:
03/10/20 16:36

TC-07-TW EXAM RIGHT S

0030315-07 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**115**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:35	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:35	VVD

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Project: ACPS-TC

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Reported:
03/10/20 16:36

TC-08-TW EXAM LEFT S

0030315-08 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**125**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:37	VVD
Lead	**2.30**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:37	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-09-C102 K S

0030315-09 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**108**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:40	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:40	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-10-C102 HAND S

0030315-10 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**324**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:42	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:42	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-11-C102 WARMING S

0030315-11 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.2-Digested Metals									
Copper	**107**		ug/L	1.00	1.00	1	03/09/20	03/10/20 12:40	VVD
Lead	**16.2**		ug/L	1.00	1.00	1	03/09/20	03/10/20 12:40	VVD

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Maryland spectral Services

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Reported:
03/10/20 16:36

TC-12-B127S

0030315-12 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**428**		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:59	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 13:59	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-13-B127 CLOSET S

0030315-13 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**323**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:02	VVD
Lead	**7.65**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:02	VVD

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Reported:
03/10/20 16:36

TC-14-D108 S

0030315-14 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**70.8**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:05	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:05	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
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Reported:
03/10/20 16:36

TC-15-D103 S

0030315-15 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**150**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:07	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:07	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-16-E110 S2

0030315-16 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**129**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:10	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:10	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-17-E110 S1

0030315-17 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**320**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:12	VVD
Lead	**2.07**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:12	VVD

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Reported:
03/10/20 16:36

TC-18- E120 S

0030315-18 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**284**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:15	VVD
Lead	**4.79**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:15	VVD

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Project: ACPS-TC

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Reported:
03/10/20 16:36

TC-19- B218S

0030315-19 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**1220**		ug/L	10.0	10.0	10	03/10/20	03/10/20 15:07	VVD
Lead	**2.82**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:17	VVD

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Project: ACPS-TC

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Reported:
03/10/20 16:36

TC-20- C216F

0030315-20 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**43.2**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:20	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:20	VVD

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Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-21- C2116F BATH S

0030315-21 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**1260**		ug/L	10.0	10.0	10	03/10/20	03/10/20 15:09	VVD
Lead	**1.22**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:22	VVD

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Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-22- A216S

0030315-22 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**135**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:39	VVD
Lead	**5.42**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:39	VVD

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-23- B318S

0030315-23 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**242**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:42	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:42	VVD

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Will Brewington, President

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Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-24- C3112 TDS

0030315-24 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**118**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:44	VVD
Lead	**4.17**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:44	VVD

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Will Brewington, President

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Baltimore MD 21227
410-247-7600
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MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-25- C312 S1

0030315-25 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**52.3**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:47	VVD
Lead	**1.22**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:47	VVD

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Will Brewington, President

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www.mdspectral.com
MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-26- C312 S2

0030315-26 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**68.2**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:50	VVD
Lead	**1.78**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:50	VVD

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MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-27- C312 S3

0030315-27 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**84.2**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:52	VVD
Lead	**2.53**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:52	VVD

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www.mdspectral.com
MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-28- C312 S4

0030315-28 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**350**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:59	VVD
Lead	**1.00**		ug/L	1.00	1.00	1	03/10/20	03/10/20 14:59	VVD

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Will Brewington, President

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Baltimore MD 21227
410-247-7600
www.mdspectral.com
MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TC-28- C312 S5

0030315-29 (Drinking Water)
Sample Date: 03/03/20

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals									
Copper	**228**		ug/L	1.00	1.00	1	03/10/20	03/10/20 15:02	VVD
Lead	ND		ug/L	1.00	1.00	1	03/10/20	03/10/20 15:02	VVD

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Baltimore MD 21227
410-247-7600
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MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TOTAL METALS ANALYSIS BY EPA 200.8DW - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B003129 - 200.2-Digested Metals										
Blank (B003129-BLK1)					Prepared: 03/09/20 Analyzed: 03/10/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
LCS (B003129-BS1)					Prepared: 03/09/20 Analyzed: 03/10/20					
Copper	9.63		1.00	ug/L	10.0		96	80-120		
Lead	10.0		1.00	ug/L	10.0		100	80-120		
Duplicate (B003129-DUP1)		**Source: 0030521-02**			Prepared: 03/09/20 Analyzed: 03/10/20					
Copper	2870	E	1.00	ug/L		2830			1	20
Lead	1.69		1.00	ug/L		1.70			0.5	20
Matrix Spike (B003129-MS1)		**Source: 0030521-02**			Prepared: 03/09/20 Analyzed: 03/10/20					
Copper	2780	QM-4X, E	1.00	ug/L	10.0	2830	NR	80-120		
Lead	9.42		1.00	ug/L	10.0	1.70	77	80-120		
Batch B003137 - 200.8-No Digestion Metals										
Blank (B003137-BLK1)					Prepared & Analyzed: 03/10/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B003137-BLK2)					Prepared & Analyzed: 03/10/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B003137-BLK3)					Prepared & Analyzed: 03/10/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						

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www.mdspectral.com
MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

TOTAL METALS ANALYSIS BY EPA 200.8DW - Quality Control

Analyte	Result	Notes	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch B003137 - 200.8-No Digestion Metals										
Blank (B003137-BLK4)					Prepared & Analyzed: 03/10/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
LCS (B003137-BS1)					Prepared & Analyzed: 03/10/20					
Copper	10.0		1.00	ug/L	10.0		100	80-120		
Lead	10.2		1.00	ug/L	10.0		102	80-120		
LCS (B003137-BS2)					Prepared & Analyzed: 03/10/20					
Copper	10.0		1.00	ug/L	10.0		100	80-120		
Lead	10.3		1.00	ug/L	10.0		103	80-120		
LCS (B003137-BS3)					Prepared & Analyzed: 03/10/20					
Copper	10.2		1.00	ug/L	10.0		102	80-120		
Lead	10.5		1.00	ug/L	10.0		105	80-120		
LCS (B003137-BS4)					Prepared & Analyzed: 03/10/20					
Copper	9.63		1.00	ug/L	10.0		96	80-120		
Lead	10.1		1.00	ug/L	10.0		101	80-120		

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410-247-7600
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MD DW LabID 153

Project: ACPS-TC

Project Number: 47:1519-K
Project Manager: Michael Hamill

Reported:
03/10/20 16:36

Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accredidation

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Will Brewington, President

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Company Name:	Project Manager:
ECS (Va)	Michael Hamill
Project Name:	**Project ID:**
ACPS Water Sampling	47:1519-K
Sampler(s):	**P.O. Number:**
ACF	47:1519-K

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Analysis Requested: lead (200.8 DW)	Analysis Requested: Copper (200.8 DW)	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
TC-01-AA2S	3/3/20	5:05	X			1	X	X	~~Ice~~ HNO3		0030315-01
TC-02-A122FS		5:07									-02
TC-03-A118S		5:10									-03
TC-04-A116S		5:12									-04
TC-05-TW Lab S		5:16									-05
TC-06-TW Baths		5:17									-06
TC-07-TW Exam Right S		5:19									-07
TC-08-TW Exam Left S		5:20									-08
TC-09-C102KS		5:25									-09
TC-10-C102 Hand S		5:26									-10

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Anna Francisca	3/3/20 8:30	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)			
(Printed)	3/3/20 15:30	(Printed) Rachel Horner			

Turn Around Time:

- ☐ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☒ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:

Temp: 21.3 °C

- ☐ Received on Ice
- ☐ Received same day
- ☐ Preservation Appropriate

Delivery Method:

- ☑ Courier
- ☐ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: _____

Special Instructions/QC Requirements & Comments:

Sample Disposal:

- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

MSS-F001-03/13

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Matrix Codes: NW (nonpotable water)
PW (potable water)

Company Name: ECS (Va)	Project Manager: Michael Hamill
Project Name: ACPS Water Sampling	Project ID: 47.1519-K
Sampler(s): ACF	P.O. Number: 47.1519-K

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Analysis Requested: Lead (200.8 DW)	Analysis Requested: Copper (200.8 DW)	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
TC-11-CM2 Warming	3/3/20	5:27	X			1	X	X	~~Ice~~ HNO_3		0030315-11
TC-12-B127S		5:33									-12
TC-13-B127 Closet S		5:34									-13
TC-14-D108S		5:45									-14
TC-15-D103S		5:47									-15
TC-16-E110S2		5:52									-16
TC-17-E110S1		5:54									-17
TC-18-E120S		5:56									-18
TC-19-B218S		6:00									-19
TC-20-C216F		6:05									-20

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
(Printed) Anna Franciosa	3/3/20 8:30	(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)			
(Printed)	3/3/20 15:30	(Printed) Rachel Horner			

Turn Around Time:
- ☐ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☑ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:
Temp: 21.3°C
- ☐ Received on Ice
- ☐ Received same day
- ☐ Preservation Appropriate

Delivery Method:
- ☑ Courier
- ☐ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: _____

Special Instructions/QC Requirements & Comments:

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 • Fax 410-247-7602
labman@mdspectral.com

Company Name:	Project Manager:
ECS (Va)	Michael Hamill
Project Name:	**Project ID:**
ACPS Water Sampling	47.1519-K
Sampler(s):	**P.O. Number:**
ACF	47.1519-K

Matrix Codes: NW (nonpotable water)
PW (potable water)

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Lead (200.8/200.7)	Copper (200.8/200.7)	Preservative: 1+1 HCL, H_2SO_4, Methanol, $Na_2S_2O_3$, $NaHCO_3$	Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank	MSS Lab ID
TC-21-C2116F Bath5	3/3/20	6:10	X			1	X	X	~~Ice~~ HNO_3		0030315-21
TC-22-A2165		6:11									-22
TC-23-B3185		6:15									-23
TC-24-C312TDS		6:18									-24
TC-25-C31251		6:19									-25
TC-26-C31252		6:20									-26
TC-27-C31253		6:22									-27
TC-28-C31254		6:23									-28
~~TC-29~~											
TC-29-C31255		6:24									-29

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Anna Franciosa	3/3/20 8:30				
(Printed) Anna Franciosa		(Printed)	(Printed)		(Printed)
Relinquished by: (Signature)	Date/Time	Received by Lab: (Signature)			
	3/3/20 15:30	Rachel Horner			
(Printed)		(Printed) Rachel Horner			

Turn Around Time:

- ☐ Normal (7 day)
- ☐ 5 day
- ☐ 4 day
- ☒ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Lab Use:

Temp: 21.3°C
- ☐ Received on Ice
- ☐ Received same day
- ☐ Preservation Appropriate

Delivery Method:

- ☒ Courier
- ☐ Client
- ☐ UPS
- ☐ FedEx
- ☐ USPS
- ☐ Other: _____

Special Instructions/QC Requirements & Comments:

Sample Disposal:

- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for _____ days