

25 February 2020

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

Enclosed are the results of analyses for samples received by the laboratory on 02/17/20 15:14.

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-JA

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

Reported:
02/25/20 15:52

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JA021720-01-126B		0021713-01	Drinking Water	02/17/20 00:00	02/17/20 15:14
JA021720-02-138S		0021713-02	Drinking Water	02/17/20 00:00	02/17/20 15:14
JA021720-03-152LS		0021713-03	Drinking Water	02/17/20 00:00	02/17/20 15:14
JA021720-04-152RS		0021713-04	Drinking Water	02/17/20 00:00	02/17/20 15:14
JA021720-05-155S		0021713-05	Drinking Water	02/17/20 00:00	02/17/20 15:14
JA021720-06-154S		0021713-06	Drinking Water	02/17/20 00:00	02/17/20 15:14
JA021720-07-153S		0021713-07	Drinking Water	02/17/20 00:00	02/17/20 15:14
JA021720-08-203B		0021713-08	Drinking Water	02/17/20 00:00	02/17/20 15:14



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 MD DW LabID 153

Project: ACPS-JA

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

Reported:
 02/25/20 15:52

JA021720-01-126B

0021713-01 (Drinking Water)
Sample Date: 02/17/20

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	287		ug/L	10.0	10.0	10	02/20/20	02/20/20 16:41	VVD
Lead	4.64		ug/L	1.00	1.00	1	02/20/20	02/20/20 15:14	VVD



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Project: ACPS-JA

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Project Manager: Michael Hamill

Reported:
02/25/20 15:52

JA021720-02-138S

0021713-02 (Drinking Water)
Sample Date: 02/17/20

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	622		ug/L	10.0	10.0	10	02/18/20	02/20/20 17:05	VVD
Lead	488		ug/L	10.0	10.0	10	02/18/20	02/20/20 17:05	VVD



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Project: ACPS-JA

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

Reported:
 02/25/20 15:52

JA021720-03-152LS

0021713-03 (Drinking Water)
Sample Date: 02/17/20

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	561		ug/L	10.0	10.0	10	02/18/20	02/20/20 17:07	VVD
Lead	67.7		ug/L	1.00	1.00	1	02/18/20	02/20/20 16:24	VVD



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Project: ACPS-JA

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

Reported:
 02/25/20 15:52

JA021720-04-152RS

0021713-04 (Drinking Water)
Sample Date: 02/17/20

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	166		ug/L	10.0	10.0	10	02/20/20	02/20/20 16:43	VVD
Lead	14.7		ug/L	1.00	1.00	1	02/20/20	02/20/20 15:22	VVD



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Project: ACPS-JA

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

Reported:
02/25/20 15:52

JA021720-05-155S

0021713-05 (Drinking Water)
Sample Date: 02/17/20

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	200		ug/L	10.0	10.0	10	02/18/20	02/20/20 17:09	VVD
Lead	15.8		ug/L	1.00	1.00	1	02/18/20	02/20/20 16:26	VVD

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

Reported:
02/25/20 15:52

JA021720-06-154S

0021713-06 (Drinking Water)
Sample Date: 02/17/20

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	11400		ug/L	200	200	200	02/18/20	02/21/20 10:20	VVD
Lead	508		ug/L	10.0	10.0	10	02/18/20	02/20/20 17:12	VVD

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Project: ACPS-JA

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

Reported:
 02/25/20 15:52

JA021720-07-153S

0021713-07 (Drinking Water)
Sample Date: 02/17/20

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	4350		ug/L	100	100	100	02/18/20	02/21/20 10:28	VVD
Lead	43.9		ug/L	1.00	1.00	1	02/18/20	02/20/20 16:31	VVD



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Project: ACPS-JA

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

Reported:
02/25/20 15:52

JA021720-08-203B

0021713-08 (Drinking Water)
Sample Date: 02/17/20

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	258		ug/L	10.0	10.0	10	02/20/20	02/20/20 16:46	VVD
Lead	1.03		ug/L	1.00	1.00	1	02/20/20	02/20/20 15:24	VVD



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Project: ACPS-JA

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

Reported:
02/25/20 15:52

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 B002253 - 200.2-Digested Metals										
Blank (B002253-BLK1)					Prepared: 02/18/20 Analyzed: 02/20/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
LCS (B002253-BS1)					Prepared: 02/18/20 Analyzed: 02/20/20					
Copper	11.1		1.00	ug/L	10.0		111	80-120		
Lead	10.5		1.00	ug/L	10.0		105	80-120		
Duplicate (B002253-DUP1)			Source: 0021713-02			Prepared: 02/18/20 Analyzed: 02/20/20				
Copper	609		10.0	ug/L		622			2	20
Lead	479		10.0	ug/L		488			2	20
Matrix Spike (B002253-MS1)			Source: 0021713-02			Prepared: 02/18/20 Analyzed: 02/20/20				
Copper	632		10.0	ug/L	10.0	622	102	80-120		
Lead	501	QM-4X	10.0	ug/L	10.0	488	128	80-120		
Batch B002286 - 200.8-No Digestion Metals										
Blank (B002286-BLK1)					Prepared & Analyzed: 02/20/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
Blank (B002286-BLK2)					Prepared & Analyzed: 02/20/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
LCS (B002286-BS1)					Prepared & Analyzed: 02/20/20					
Copper	11.2		1.00	ug/L	10.0		112	80-120		
Lead	10.5		1.00	ug/L	10.0		105	80-120		

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Project: ACPS-JA

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

Reported:
02/25/20 15:52

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 B002286 - 200.8-No Digestion Metals										
LCS (B002286-BS2)					Prepared & Analyzed: 02/20/20					
Copper	11.2		1.00	ug/L	10.0		112	80-120		
Lead	10.7		1.00	ug/L	10.0		107	80-120		
Duplicate (B002286-DUP1)			Source: 0021308-01		Prepared & Analyzed: 02/20/20					
Copper	62.8		1.00	ug/L		62.9			0.2	20
Lead	4.32		1.00	ug/L		4.36			1	20
Duplicate (B002286-DUP2)			Source: 0021901-01		Prepared & Analyzed: 02/20/20					
Copper	406	E	1.00	ug/L		413			2	20
Lead	2.07		1.00	ug/L		2.09			0.7	20
Matrix Spike (B002286-MS1)			Source: 0021308-01		Prepared & Analyzed: 02/20/20					
Copper	72.1		1.00	ug/L	10.0	62.9	92	80-120		
Lead	15.0		1.00	ug/L	10.0	4.36	107	80-120		
Matrix Spike (B002286-MS2)			Source: 0021901-01		Prepared & Analyzed: 02/20/20					
Copper	411	QM-4X, E	1.00	ug/L	10.0	413	NR	80-120		
Lead	12.5		1.00	ug/L	10.0	2.09	104	80-120		



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

Reported:
02/25/20 15:52

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 accreditation



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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)

Project Name: ACPs Water Sampling
 Project ID: 47:1519-K
 Sampler(s): ACF/MPH
 P.O. Number: 47:1519-K

Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Lead (200.8DW-Pb)	Copper (200.861-Cu)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Received by: (Signature)
JA021720-01-126B			X			1	X						
JA021720-02-138S			X			1	X						
JA021720-03-152LS			X			1	X						
JA021720-04-152RS			X			1	X						
JA021720-05-155S			X			1	X						
JA021720-06-154S			X			1	X						
JA021720-07-153S			X			1	X						
JA021720-08-203B			X			1	X						

Relinquished by: (Signature) *Michael Hamill* Date/Time 2/17 Received by: (Signature) *Rachel Horner* Date/Time 2/17/20

Relinquished by: (Signature) *Michael Hamill* Date/Time 15:14 Received by: (Signature) *Rachel Horner* Date/Time 2/17/20

Lab Use:
 Temp: 22.0°C
 Received on Ice
 Received same day
 Preservation Appropriate

Sample Disposal:
 Return to Client
 Disposal by lab
 Archive for ___ days

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

Delivery Method:
 Courier
 Client
 UPS
 FedEx
 USPS
 Other: _____

Special Instructions/QC Requirements & Comments:
Rachel Horner