

25 February 2020

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

Enclosed are the results of analyses for samples received by the laboratory on 02/17/20 15:58.

Please visit our website at [www.mdspectral.com](http://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-ECC**

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

**Reported:**  
02/25/20 16:43

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ECC021720-01-121LB		0021714-01	Drinking Water	02/17/20 00:00	02/17/20 15:58
ECC021720-02-121LS		0021714-02	Drinking Water	02/17/20 00:00	02/17/20 15:58
ECC021720-03-121-BS		0021714-03	Drinking Water	02/17/20 00:00	02/17/20 15:58
ECC021720-04-HALLBY120WE		0021714-04	Drinking Water	02/17/20 00:00	02/17/20 15:58



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 MD DW LabID 153

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

**Reported:**  
 02/25/20 16:43

**ECC021720-01-121LB**

**0021714-01 (Drinking Water)**

**Sample Date: 02/17/20**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals</b>									
Copper	174		ug/L	10.0	10.0	10	02/20/20	02/20/20 16:48	VVD
Lead	177		ug/L	10.0	10.0	10	02/20/20	02/20/20 16:48	VVD

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 Project Manager: Michael Hamill

**Reported:**  
 02/25/20 16:43

**ECC021720-02-121LS**

**0021714-02 (Drinking Water)**

**Sample Date: 02/17/20**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals</b>									
Copper	171		ug/L	10.0	10.0	10	02/20/20	02/20/20 16:55	VVD
Lead	102		ug/L	10.0	10.0	10	02/20/20	02/20/20 16:55	VVD



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 Project Manager: Michael Hamill

**Reported:**  
 02/25/20 16:43

**ECC021720-03-121-BS**

**0021714-03 (Drinking Water)**  
**Sample Date: 02/17/20**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals</b>									
Copper	274		ug/L	10.0	10.0	10	02/20/20	02/20/20 16:58	VVD
Lead	222		ug/L	10.0	10.0	10	02/20/20	02/20/20 16:58	VVD



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 Project Manager: Michael Hamill

**Reported:**  
 02/25/20 16:43

**ECC021720-04-HALLBY120WB**

**0021714-04 (Drinking Water)**  
**Sample Date: 02/17/20**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>TOTAL METALS ANALYSIS BY EPA 200.8DW Prepared by 200.8-No Digestion Metals</b>									
Copper	80.2		ug/L	1.00	1.00	1	02/20/20	02/20/20 15:44	VVD
Lead	ND		ug/L	1.00	1.00	1	02/20/20	02/20/20 15:44	VVD



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**Project: ACPS-ECC**

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

Reported:  
02/25/20 16:43

**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
<b>Batch B002286 - 200.8-No Digestion Metals</b>										
<b>Blank (B002286-BLK1)</b>					Prepared & Analyzed: 02/20/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B002286-BLK2)</b>					Prepared & Analyzed: 02/20/20					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>LCS (B002286-BS1)</b>					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		
<b>LCS (B002286-BS2)</b>					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		
<b>Duplicate (B002286-DUP1)</b>			<b>Source: 0021308-01</b>			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
<b>Duplicate (B002286-DUP2)</b>			<b>Source: 0021901-01</b>			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
<b>Matrix Spike (B002286-MS1)</b>			<b>Source: 0021308-01</b>			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		
<b>Matrix Spike (B002286-MS2)</b>			<b>Source: 0021901-01</b>			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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Reported:  
02/25/20 16:43

**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)

Preservative:  
 1 + 1 HCL, H<sub>2</sub>SO<sub>4</sub>,  
 Methanol,  
 Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, NaHCO<sub>3</sub>

Field pH, Residual  
 Chlorine, OC  
 Request, Trip  
 Blank, Field Blank

MSS Lab ID

0021714-01  
 -02  
 -03  
 -04

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	No. of Containers			
			Water	Soil	Other	
ECC 021720-01-121LB	2/17		X			1
ECC 021720-02-121LS	2/17		X			1
ECC 021720-03-121-B5	2/17		X			1
ECC 021720-04-Ha116g120.0B	2/17		X			1
			X			1
			X			1
			X			1
			X			1
			X			1
			X			1
			X			1
			X			1
			X			1
			X			1

Lead (200.8DW-Pb) *Copper (200.8DW-Cu)*

Relinquished by: (Signature) *Michael Hamill*  
 Date/Time 2/17

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

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

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

Relinquished by: (Signature) \_\_\_\_\_  
 Date/Time \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_  
 Date/Time \_\_\_\_\_

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: \_\_\_\_\_

MSS-F001-03/13