

# LIMITED LEAD AND COPPER DRINKING WATER JUNE 2021 SAMPLING EVENT



ACPS ALEXANDRIA HIGH SCHOOL (T.C. WILLIAMS HIGH SCHOOL)

3330 KING STREET  
ALEXANDRIA, VIRGINIA 22302

ECS PROJECT NO. 47:11642-E

FOR: ALEXANDRIA CITY PUBLIC SCHOOLS

JULY 19, 2021





July 19, 2021

Mr. John Contreras  
Alexandria City Public Schools  
1340 Braddock Place  
Alexandria, Virginia 22314  
john.contreras@acps.k12.va.us

ECS Project No. 47:11642-E

Reference: Limited Lead and Copper Drinking Water June 2021 Sampling Event, ACPS Alexandria High School (T.C. Williams High School), 3330 King Street, Alexandria, Virginia

Dear Mr. Contreras:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Alexandria City Public Schools with the results of the Limited Lead and Copper Drinking Water June 2021 Sampling Event performed at ACPS Alexandria High School (T.C. Williams High School) located at 3330 King Street in Alexandria, Virginia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47:16189-EP and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Alexandria City Public Schools with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

A handwritten signature in black ink, appearing to read 'Jennifer Turner', written in a cursive style.

Jennifer Turner  
Environmental Scientist  
jturner@ecslimited.com  
703-471-8400

A handwritten signature in black ink, appearing to read 'Michael Hamill', written in a cursive style.

Michael Hamill, CIH  
Senior Project Manager  
mhmaill@ecslimited.com  
703-471-8400

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## 1.0 SITE DESCRIPTION

The ACPS T.C. Williams High School is a three-story school building located at 3330 King Street in Alexandria, Virginia. The building is currently occupied and is used by Alexandria City Public Schools (ACPS) as a school. The site is located within Alexandria and is under the jurisdiction of the City of Alexandria and U.S. Environmental Protection Agency (EPA) drinking water regulations.

The site receives water from Virginia American Water, which is classified as a public drinking water system by the EPA under the Safe Drinking Water Act (SDWA). This ACPS building is connected to a public water system and therefore; does not have its own water supply nor is it considered a non-transient, non-community water system (NTNCWS) as defined by the EPA's Lead and Copper Rule.

## 2.0 PURPOSE

ECS previously provided lead and copper drinking water testing at the Alexandria High School in December 2019, March 2020, and October 2020. The purpose of this water sampling event was to perform periodic testing of the high school to identify if the sinks, water fountains, bottle refilling stations, and/or bubblers within the above-referenced building contain lead and/or copper concentrations in excess of the EPA's Lead and Copper Rule action levels as a part of the ACPS 3-year rotating sampling plan. The purpose of this sampling event was a screening of the potable outlets (sinks, water fountains, bottle refilling stations, and bubblers excluding gang bathroom sinks) within the building.

The EPA created the Lead and Copper Rule under the SWDA. The EPA's Lead and Copper Rule established a lead action level of 0.015 mg/L (milligrams/liter) or 0.015 parts per million (PPM). The EPA's Lead and Copper Rule established a copper action level of 1.3 mg/L or 1.3 PPM. Note that ACPS buildings are not regulated by the EPA's Lead and Copper Rule because they do not meet the definition of a public water system as defined in EPA's 40 CFR Section 141 Subpart A.

The Code of Virginia § 22.1-135.1 currently requires Virginia school boards to develop and implement a plan to test, and if necessary, remediate potable water sources identified by the US EPA as a high priority. Each local school board shall submit testing plans and laboratory results to the Department of Health. If potable water sources are detected at or above 10 parts per billion (0.010 PPM), the school board shall notify parents of such results.

The US EPA's 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (EPA 815-B-18-007) was created to provide recommendations on how to address lead in drinking water in schools and child care facilities. The procedures and response actions outlined in the EPA's 3Ts document are recommendations not requirements. The EPA's 3Ts guidance document does not set action levels for lead or copper in drinking water but it does reference the action levels created for public water systems in the EPA's Lead and Copper Rule. The results of this water sampling event will be compared to the action levels set in the EPA's Lead and Copper Rule.

### 3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for sampling drinking water.

#### 3.1 Lead and Copper Drinking Water

Sample protocols were performed in general accordance with the US EPA's 3Ts for Reducing Lead in Drinking Water in Schools: Revised Technical Guidance (EPA 815-B-18-007) and the US EPA's Lead and Copper Rule. Water samples were collected from approximately 20% of the accessible potable water sources within the building including sinks, water fountains, and bottle refilling stations, with a minimum of two samples per floor. Samples were not collected from the exterior of the building or from janitor slop sinks.

ECS coordinated the water sampling with ACPS officials, and it is ECS's understanding that all of the water sources sampled were not in use at least 8 hours prior to sampling. ACPS personnel granted ECS access to the building. ECS attempted to access all drinking water sources within the building. During sampling, initial draw samples were collected. The samples were collected in 250 mL bottles with a nitric acid preservative. These water bottles were provided to ECS by Maryland Spectral Services, Inc. The water samples were provided with unique identification labels which include the school initials, a sequential number identifier, and sample location identifier.

The collected water samples were sealed and transported by courier to Maryland Spectral Services, Inc. located in Baltimore, Maryland. The water samples were submitted for lead and copper drinking water analysis per EPA Method 200.8.

Please note that efforts were made to collect samples from selected outlets in accordance with the methodology described above. Some areas within the building were locked. ECS was not able to sample outlets in the locked areas.

### 4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

#### 4.1 Lead in Drinking Water

The water samples collected from the sinks in room B127, A216, B218, C210, A317, and B331 were reported to have a concentrations above the EPA lead action level of 0.015 mg/L (PPM). Water samples collected from sinks in Rooms B127, B218, C210, A317, C309, and C312 were reported to have concentrations above the Virginia notifiable level of 0.010 mg/L (PPM). In total, sixty-two (62) water samples were collected from the building. A table of the collected samples and the associated analytical results can be found in the appendices. Note that the analytical results displayed in the table have been converted to mg/L (PPM) for easy reference. A copy of the laboratory analytical results and chain of custody are attached to this report. A sketch identifying the approximate location of each water sample can also be found in the appendices.

## 4.2 Copper in Drinking Water

The water samples collected from sinks in rooms B127 and C312 were reported to have concentrations above the EPA copper action level of 1.3 mg/L (PPM). In total, sixty-two (62) water samples were collected from the building. A table of the collected samples and the associated analytical results can be found in the appendices. Note that the analytical results displayed in the table have been converted to mg/L (PPM) for easy reference. A copy of the laboratory analytical results and chain of custody are attached to this report. A sketch identifying the approximate location of each water sample can also be found in the appendices.

## 5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Limited Lead and Copper Drinking Water June 2021 Sampling Event, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

### 5.1 Lead in Drinking Water

The water sample collected from the sinks in room B127, A216, B218, C210, A317, and B331 reported to have a concentration above the EPA lead action level of 0.015 mg/L (ppm). Water samples collected from sinks in Rooms B127, B218, C210, A317, C309, and C312 were reported to have concentrations above the Virginia notifiable level of 0.010 mg/L (PPM). The other water samples collected from the building were reported below the action level. The EPA's 3Ts document recommends that if initial testing results are reported above the action level, follow-up flush sampling should be performed to determine if the contamination is from the fixture or interior plumbing components.

ECS recommends follow-up flush testing be performed for the water outlets which were reported to have concentrations above the EPA lead action level of 0.015 mg/L (PPM) as described above or long term remediation actions should be implemented. For remediation actions, a group of professionals, including school administrators, plumbers, maintenance staff, and industrial hygienist, should be consulted.

Pending the results of long term remediation actions and/or the follow-up testing, ECS recommends the following steps be immediately implemented:

- Water outlets that were reported to have elevated levels should be shut-off until additional remediation steps are established and implemented.
- Placards should be posted on the elevated outlets with notices that water should not be consumed or used for cooking. The placards should use pictures if there are small children using the building.
- Consult the plumbing staff, facilities staff, and EPA's 3Ts document to determine whether short term control measures should be implemented prior to the receiving the follow-up flush sampling results.

In addition to the remediation efforts for the elevated outlets, ECS recommends periodic follow-up screening be performed for the building. The EPA does not specify a specific time frame for which follow-up testing for schools needs to be performed. The EPA suggest that schools and child care

facilities make testing a part of their routine building operations and states that annual monitoring provides information on changing concentrations and the effectiveness of remediation or treatment options.

As good practice, ECS recommends performing follow-up periodic testing every three years. If additional guidelines or regulations are enacted at a state or federal level, the frequency of testing should be modified to reflect these changes.

In the US EPA 3Ts document, routine control measures are recommended as general good practice for over-all drinking water safety. The routine control measures that should be conducted to prevent exposure to elevated levels of lead, include the following:

- Clean debris from all accessible screens frequently. If you discovered sediments in faucet screens, have the sediments tested for lead and continue to clean your screens frequently, even if the analysis finds no lead.
- Use only cold water for food and beverage preparation. Hot water will dissolve lead more quickly than cold water and is likely to contain increased lead levels. If hot water is needed, it should be taken from the cold water tap and heated on a stove or in a microwave oven.
- Instruct the users (students and staff) to run the water before drinking or staff could run the water before students arrive, so they are drinking water that has not been in contact with the faucet interior since faucets are often a major source of lead in drinking water.
- Placard bathroom sinks with notices that water should not be consumed. You should use pictures if there are small children using bathrooms.
- US EPA recommends public notification of the findings of this sample event to the public and school staff. EPA has described different procedures for dissemination of this information which are described in Section III.6 of the 3 Ts document. The school should review the different methods described and choose the most appropriate method for the school.

## 5.2 Copper in Drinking Water

The water samples collected from sinks in rooms B127 and C312 were reported above the copper action level. The other samples collected from the building were reported below the action level. The EPA's 3Ts document recommends that if initial testing results are reported above the action level, follow-up flush sampling should be performed to determine if the contamination is from the fixture or interior plumbing components.

ECS recommends follow-up flush testing be performed for the water outlet which was reported to have concentrations above the EPA copper action level of 1.3 mg/L (PPM) as described above or long term remediation actions should be implemented. For remediation actions, a group of professionals, including school administrators, plumbers, maintenance staff, and industrial hygienist, should be consulted.

Pending the result of the follow up testing, ECS recommends the following immediate steps:

- The water outlet that was reported to have an elevated level should be shut-off until additional remediation steps are established;



- A placard should be posted on the elevated outlet with a notice that water should not be consumed or used for cooking. The placard should use pictures if there are small children using the building; and,
- Consult the plumbing staff, facilities staff, and EPA's 3Ts document to determine whether short term control measures should be implemented prior to the receiving the follow-up flush sampling result.

In addition to the remediation efforts for the elevated outlets, ECS recommends periodic follow-up screening be performed for the building. The EPA does not specify a specific time frame for which follow-up testing for schools needs to be performed. The EPA suggest that schools and child care facilities make testing a part of their routine building operations and states that annual monitoring provides information on changing concentrations and the effectiveness of remediation or treatment options.

As good practice, ECS recommends including this building in a comprehensive periodic follow-up screening sampling plan in which screening samples should be collected from this building at a minimum of every three years. If additional guidelines or regulations are enacted at a state or federal level in the future, the frequency of testing should be modified to reflect these changes.

## 6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

The water samples collected and analyzed are only reflective of conditions at the time of this sampling event for the date of this report and these parameters can vary rapidly over time, depending upon a number of conditions, including site-specific construction and environmental factors. As such, the sampling and results associated with this assessment is intended only as a description of available information at the dates and locations given. This report has been prepared in accordance with generally accepted environmental practices. Our conclusions and findings are based, in part, upon information provided to us by others and our site observations. We have not verified the completeness or accuracy of the information provided by others.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of

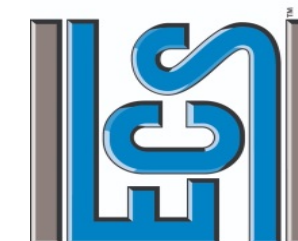
services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.

# **Appendix I: Sample Location Sketch**





T.C. Williams High School  
3330 King Street  
Alexandria, VA 22302

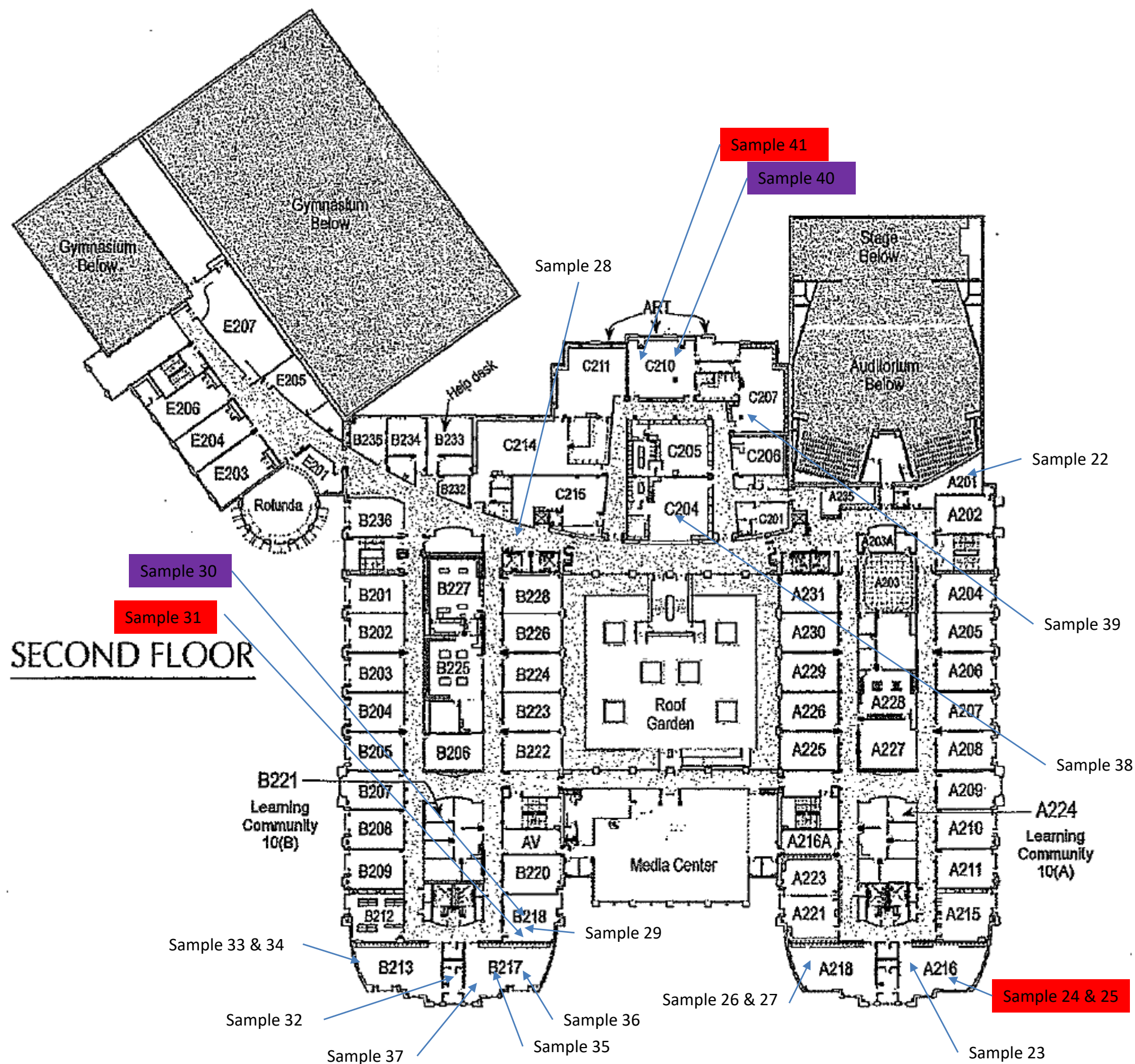


# Sample Location Sketch Second Floor

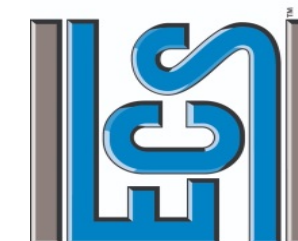
Scale: NTS

Project No.  
47:11652-E

Site Visit:  
06/16/2021



T.C. Williams High School  
3330 King Street  
Alexandria, VA 22302

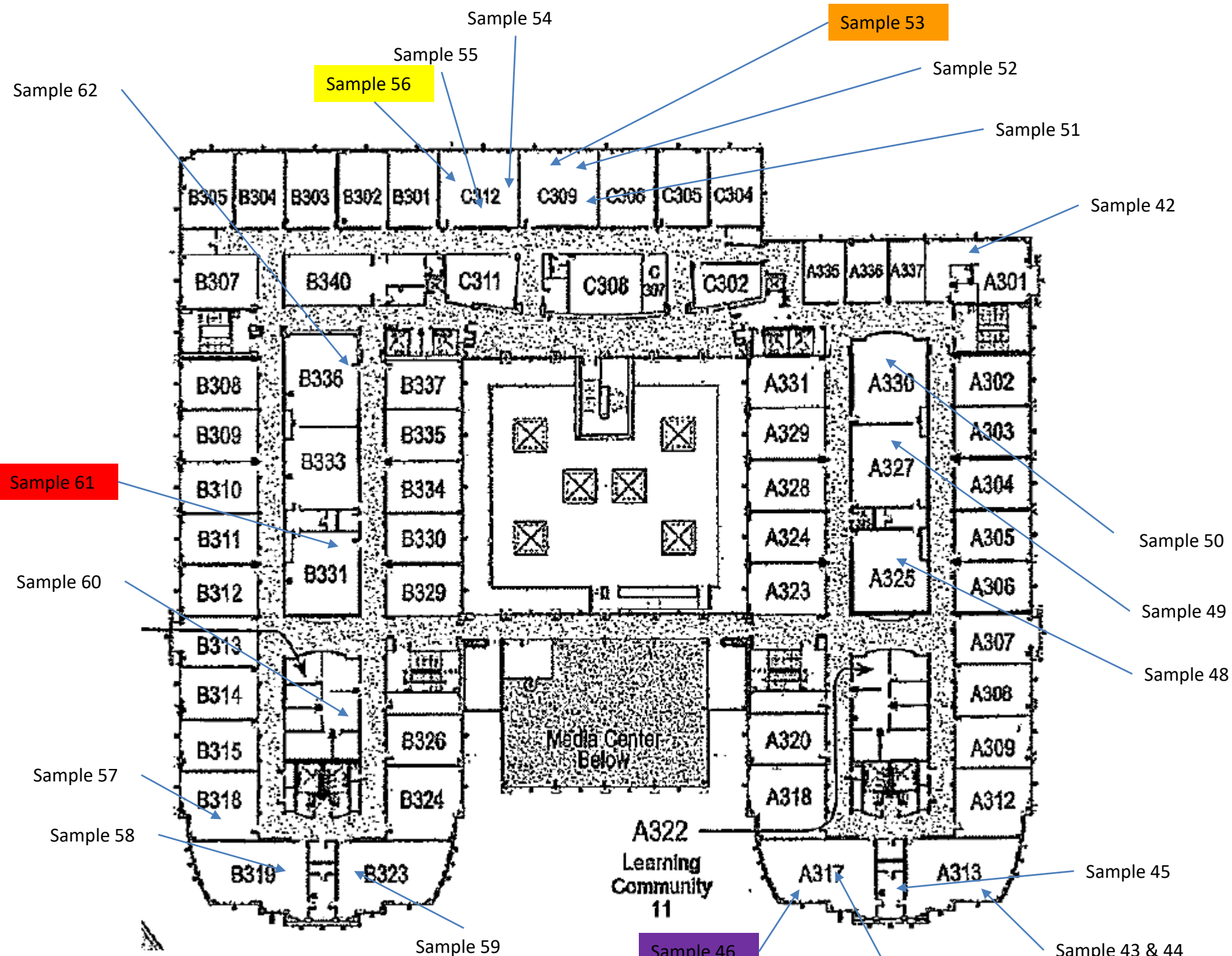


# Sample Location Sketch Third Floor

Scale: NTS

Project No.  
47:11652-E

Site Visit:  
06/16/2021



- Inaccessible Area
- Elevated Lead
- Elevated Copper
- Elevated Lead & Copper
- Notifiable Lead Concentration

## **Appendix II: Lead and Copper Drinking Water Sample Results**



T.C. Williams High School Copper and Lead Drinking Water Results Table		
Sample Number	Copper Result (mg/L)	Lead Result (mg/L)
061621TCW-01-C100 FS	0.103	<0.001
061621TCW-02-C100 MS	0.125	<0.001
061621TCW-03-C100 BSR	0.109	<0.001
061621TCW-04-C100 BSL	0.091	<0.001
061621TCW-05-C110	0.646	<0.001
061621TCW-06-C109 SR	0.060	<0.001
061621TCW-07-C109 SL	0.185	<0.001
061621TCW-08-E125	0.209	0.003
061621TCW-09-E130	0.311	0.006
061621TCW-10-E115 S	0.105	0.001
061621TCW-11-E115 B	0.115	<0.001
061621TCW-12-B110	0.111	<0.001
061621TCW-13-B127 FS	1.670	0.011
061621TCW-14-B127 LS	0.906	0.012
061621TCW-15-B127 RS	1.990	0.019
061621TCW-16-B131 LS	0.285	0.003
061621TCW-17-B131 RC	0.245	0.006
061621TCW-18-WING B FUNCTION	0.078	<0.001
061621TCW-19-A110N	0.136	<0.001

Table Notes:

Red = Above the Action Level

Orange = Above 0.010 mg/L and below 0.015 mg/L





Sample Number	Copper Result (mg/L)	Lead Result (mg/L)
061621TCW-20-A122	0.146	<0.001
061621TCW-21-A102	0.144	0.011
061621TCW-22-A201	0.107	<0.001
061621TCW-23-A216 FS	0.129	0.008
061621TCW-24-A216 LS	0.264	0.018
061621TCW-25-A216 RS	0.233	0.018
061621TCW-26-A218 LS	0.103	0.007
061621TCW-27-A218 RS	0.182	0.007
061621TCW-28-2ND FL B	0.183	0.007
061621TCW-29-B218 FS	0.212	0.004
061621TCW-30-B218 LS	0.604	0.013
061621TCW-31-B218 RS	0.887	0.017
061621TCW-32-B213 FS	0.115	0.005
061621TCW-33-B213 LS	0.074	0.003
061621TCW-34-B213 RS	0.080	0.005
061621TCW-35-B217 FS	0.081	0.002
061621TCW-36-B217 LS	0.095	0.004
061621TCW-37-B217 RS	0.106	0.005
061621TCW-38-C204	0.470	0.004
061621TCW-39-C207	0.327	0.004

Table Notes:

Red = Above the Action Level

Orange = Above 0.010 mg/L and below 0.015 mg/L



Sample Number	Copper Result (mg/L)	Lead Result (mg/L)
061621TCW-40-C210 LS	0.060	0.012
061621TCW-41-C210 RS	0.173	0.039
061621TCW-42-A301	0.130	<0.001
061621TCW-43-A313 LS	0.068	0.002
061621TCW-44-A313 RS	0.163	0.007
061621TCW-45-A313 LAB RM	0.189	0.002
061621TCW-46-A317 LS	0.166	0.013
061621TCW-47-A317 RS	0.354	0.018
061621TCW-48-A325	0.208	0.004
061621TCW-49-A327	0.148	0.003
061621TCW-50-A330	0.146	0.004
061621TCW-51-C309 FS	0.165	0.008
061621TCW-52-C309 LS	0.102	<0.001
061621TCW-53-C309 RS	0.213	0.012
061621TCW-54-C312 FS	0.056	0.003
061621TCW-55-C312 LS	0.141	0.008
061621TCW-56-C312 RS	1.600	0.014
061621TCW-57-B318	0.668	0.004
061621TCW-58-B319	0.511	0.004
061621TCW-59-B323	0.166	0.003

Table Notes:

Red = Above the Action Level

Orange = Above 0.010 mg/L and below 0.015 mg/L



Sample Number	Copper Result (mg/L)	Lead Result (mg/L)
061621TCW-60-B328 F	0.185	<0.001
061621TCW-61-B331	0.251	<b>0.015</b>
061621TCW-62-B336	0.214	0.007
The EPA's Lead and Copper Rule set an action level of 0.015 mg/L for lead and an action level of 1.3 mg/L for copper. Note these levels are related to public water systems (PWSs). The Code of Virginia requires school boards notify parents if testing results exceed 0.01 mg/L of Lead (Pb).		

Table Notes:

**Red** = Above the Action Level

**Orange** = Above 0.010 mg/L and below 0.015 mg/L

## **Appendix III: Lead and Copper Laboratory Analytical Results**

23 June 2021

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

Enclosed are the results of analyses for samples received by the laboratory on 06/16/21 15:11.

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,



Rabecka Koons  
Quality Assurance Officer

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

**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
061621TCW-01-C100 FS		1061622-01	Drinking Water	06/16/21 05:11	06/16/21 15:11
061621TCW-02-C100 MS		1061622-02	Drinking Water	06/16/21 05:14	06/16/21 15:11
061621TCW-03-C100 BSR		1061622-03	Drinking Water	06/16/21 05:15	06/16/21 15:11
061621TCW-04-C100 BSL		1061622-04	Drinking Water	06/16/21 05:15	06/16/21 15:11
061621TCW-05-C110		1061622-05	Drinking Water	06/16/21 05:20	06/16/21 15:11
061621TCW-06-C109 SR		1061622-06	Drinking Water	06/16/21 05:22	06/16/21 15:11
061621TCW-07-C109 SL		1061622-07	Drinking Water	06/16/21 05:23	06/16/21 15:11
061621TCW-08-E125		1061622-08	Drinking Water	06/16/21 05:28	06/16/21 15:11
061621TCW-09-E130		1061622-09	Drinking Water	06/16/21 05:29	06/16/21 15:11
061621TCW-10-E115 S		1061622-10	Drinking Water	06/16/21 05:32	06/16/21 15:11
061621TCW-11-E115 B		1061622-11	Drinking Water	06/16/21 05:33	06/16/21 15:11
061621TCW-12-B110		1061622-12	Drinking Water	06/16/21 05:38	06/16/21 15:11
061621TCW-13-B127 FS		1061622-13	Drinking Water	06/16/21 05:43	06/16/21 15:11
061621TCW-14-B127 LS		1061622-14	Drinking Water	06/16/21 05:43	06/16/21 15:11
061621TCW-15-B127 RS		1061622-15	Drinking Water	06/16/21 05:43	06/16/21 15:11
061621TCW-16-B131 LS		1061622-16	Drinking Water	06/16/21 05:47	06/16/21 15:11
061621TCW-17-B131 RC		1061622-17	Drinking Water	06/16/21 05:47	06/16/21 15:11
061621TCW-18-WING B FUNC'		1061622-18	Drinking Water	06/16/21 05:50	06/16/21 15:11
061621TCW-19-A110N		1061622-19	Drinking Water	06/16/21 05:54	06/16/21 15:11
061621TCW-20-A122		1061622-20	Drinking Water	06/16/21 05:56	06/16/21 15:11
061621TCW-21-A102		1061622-21	Drinking Water	06/16/21 05:58	06/16/21 15:11
061621TCW-22-A201		1061622-22	Drinking Water	06/16/21 06:01	06/16/21 15:11
061621TCW-23-A216 FS		1061622-23	Drinking Water	06/16/21 06:04	06/16/21 15:11
061621TCW-24-A216 LS		1061622-24	Drinking Water	06/16/21 06:04	06/16/21 15:11
061621TCW-25-A216 RS		1061622-25	Drinking Water	06/16/21 06:04	06/16/21 15:11

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

*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.*

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

**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
061621TCW-26-A218 LS		1061622-26	Drinking Water	06/16/21 06:05	06/16/21 15:11
061621TCW-27-A218 RS		1061622-27	Drinking Water	06/16/21 06:05	06/16/21 15:11
061621TCW-28-2ND FL B		1061622-28	Drinking Water	06/16/21 06:12	06/16/21 15:11
061621TCW-29-B218 FS		1061622-29	Drinking Water	06/16/21 06:14	06/16/21 15:11
061621TCW-30-B218 LS		1061622-30	Drinking Water	06/16/21 06:14	06/16/21 15:11
061621TCW-31-B218 RS		1061622-31	Drinking Water	06/16/21 06:14	06/16/21 15:11
061621TCW-32-B213 FS		1061622-32	Drinking Water	06/16/21 06:20	06/16/21 15:11
061621TCW-33-B213 LS		1061622-33	Drinking Water	06/16/21 06:20	06/16/21 15:11
061621TCW-34-B213 RS		1061622-34	Drinking Water	06/16/21 06:20	06/16/21 15:11
061621TCW-35-B217 FS		1061622-35	Drinking Water	06/16/21 06:21	06/16/21 15:11
061621TCW-36-B217 LS		1061622-36	Drinking Water	06/16/21 06:21	06/16/21 15:11
061621TCW-37-B217 RS		1061622-37	Drinking Water	06/16/21 06:28	06/16/21 15:11
061621TCW-38-C204		1061622-38	Drinking Water	06/16/21 06:31	06/16/21 15:11
061621TCW-39-C207		1061622-39	Drinking Water	06/16/21 06:33	06/16/21 15:11
061621TCW-40-C210 LS		1061622-40	Drinking Water	06/16/21 06:33	06/16/21 15:11
061621TCW-41-C210 RS		1061622-41	Drinking Water	06/16/21 06:33	06/16/21 15:11
061621TCW-42-A301		1061622-42	Drinking Water	06/16/21 06:40	06/16/21 15:11
061621TCW-43-A313 LS		1061622-43	Drinking Water	06/16/21 06:43	06/16/21 15:11
061621TCW-44-A313 RS		1061622-44	Drinking Water	06/16/21 06:43	06/16/21 15:11
061621TCW-45-A313 LAB RM		1061622-45	Drinking Water	06/16/21 06:44	06/16/21 15:11
061621TCW-46-A317 LS		1061622-46	Drinking Water	06/16/21 06:44	06/16/21 15:11
061621TCW-47-A317 RS		1061622-47	Drinking Water	06/16/21 06:44	06/16/21 15:11
061621TCW-48-A325		1061622-48	Drinking Water	06/16/21 06:54	06/16/21 15:11
061621TCW-49-A327		1061622-49	Drinking Water	06/16/21 06:55	06/16/21 15:11
061621TCW-50-A330		1061622-50	Drinking Water	06/16/21 06:55	06/16/21 15:11
061621TCW-51-C309 FS		1061622-51	Drinking Water	06/16/21 07:01	06/16/21 15:11

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Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

**Reported:**  
06/23/21 17:29

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
061621TCW-52-C309 LS		1061622-52	Drinking Water	06/16/21 07:01	06/16/21 15:11
061621TCW-53-C309 RS		1061622-53	Drinking Water	06/16/21 07:01	06/16/21 15:11
061621TCW-54-C312 FS		1061622-54	Drinking Water	06/16/21 07:05	06/16/21 15:11
061621TCW-55-C312 LS		1061622-55	Drinking Water	06/16/21 07:05	06/16/21 15:11
061621TCW-56-C312 RS		1061622-56	Drinking Water	06/16/21 07:05	06/16/21 15:11
061621TCW-57-B318		1061622-57	Drinking Water	06/16/21 07:09	06/16/21 15:11
061621TCW-58-B319		1061622-58	Drinking Water	06/16/21 07:17	06/16/21 15:11
061621TCW-59-B323		1061622-59	Drinking Water	06/16/21 07:18	06/16/21 15:11
061621TCW-60-B328 F		1061622-60	Drinking Water	06/16/21 07:21	06/16/21 15:11
061621TCW-61-B331		1061622-61	Drinking Water	06/16/21 07:22	06/16/21 15:11
061621TCW-62-B336		1061622-62	Drinking Water	06/16/21 07:23	06/16/21 15:11

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-01-C100 FS**

**1061622-01 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>103</b>		ug/L	1.00	1.00	1	06/21/21	06/21/21 23:45	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/21/21 23:45	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-02-C100 MS**

**1061622-02 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>125</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:02	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:02	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-03-C100 BSR**

**1061622-03 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>109</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:05	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:05	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-04-C100 BSL**

**1061622-04 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>91.4</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:07	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:07	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-05-C110**

**1061622-05 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>646</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:09	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:09	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-06-C109 SR**

**1061622-06 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>60.2</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:12	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:12	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-07-C109 SL**

**1061622-07 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>185</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:14	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:14	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-08-E125**

**1061622-08 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>209</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:17	VVD
<b>Lead</b>	<b>3.36</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:17	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-09-E130**

**1061622-09 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>311</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:31	VVD
<b>Lead</b>	<b>5.82</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:31	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-10-E115 S**

**1061622-10 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>105</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:24	VVD
<b>Lead</b>	<b>1.30</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:24	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-11-E115 B**

**1061622-11 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>115</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:26	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:26	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-12-B110**

**1061622-12 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>111</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:29	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:29	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-13-B127 FS**

**1061622-13 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>1670</b>		ug/L	10.0	10.0	10	06/21/21	06/22/21 18:16	VVD
<b>Lead</b>	<b>10.7</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:41	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-14-B127 LS**

**1061622-14 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>906</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:33	VVD
<b>Lead</b>	<b>11.8</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:33	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-15-B127 RS**

**1061622-15 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>1990</b>		ug/L	10.0	10.0	10	06/18/21	06/22/21 17:52	VVD
<b>Lead</b>	<b>18.5</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:36	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-16-B131 LS**

**1061622-16 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>285</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:43	VVD
<b>Lead</b>	<b>3.04</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:43	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-17-B131 RC**

**1061622-17 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>245</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:38	VVD
<b>Lead</b>	<b>6.47</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:38	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-18-WING B FUNCTION**

**1061622-18 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>77.8</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:46	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:46	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-19-A110N**

**1061622-19 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>136</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:53	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:53	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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MD DW LabID 153

**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-20-A122**

**1061622-20 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>146</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:55	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:55	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-21-A102**

**1061622-21 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>144</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:57	VVD
<b>Lead</b>	<b>10.5</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 00:57	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-22-A201**

**1061622-22 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>107</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:00	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:00	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-23-A216 FS**

**1061622-23 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>129</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:02	VVD
<b>Lead</b>	<b>8.21</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:02	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-24-A216 LS**

**1061622-24 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>264</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:05	VVD
<b>Lead</b>	<b>17.8</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:05	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-25-A216 RS**

**1061622-25 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>233</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:41	VVD
<b>Lead</b>	<b>17.5</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:41	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-26-A218 LS**

**1061622-26 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>103</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:43	VVD
<b>Lead</b>	<b>7.36</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 20:43	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-27-A218 RS**

**1061622-27 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>182</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:07	VVD
<b>Lead</b>	<b>6.99</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:07	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-28-2ND FL B**

**1061622-28 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>183</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:24	VVD
<b>Lead</b>	<b>7.02</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:24	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-29-B218 FS**

**1061622-29 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>212</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:00	VVD
<b>Lead</b>	<b>4.42</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:00	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-30-B218 LS**

**1061622-30 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>604</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:02	VVD
<b>Lead</b>	<b>13.1</b>		ug/L	5.00	5.00	5	06/18/21	06/22/21 17:54	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-31-B218 RS**

**1061622-31 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>887</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:05	VVD
<b>Lead</b>	<b>16.8</b>		ug/L	5.00	5.00	5	06/18/21	06/22/21 17:57	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-32-B213 FS**

**1061622-32 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>115</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:26	VVD
<b>Lead</b>	<b>4.70</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:26	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-33-B213 LS**

**1061622-33 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>73.5</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:29	VVD
<b>Lead</b>	<b>3.16</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:29	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-34-B213 RS**

**1061622-34 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>79.9</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:31	VVD
<b>Lead</b>	<b>4.89</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:31	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-35-B217 FS**

**1061622-35 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>81.1</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:34	VVD
<b>Lead</b>	<b>2.45</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:34	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-36-B217 LS**

**1061622-36 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>94.6</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:36	VVD
<b>Lead</b>	<b>4.28</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:36	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-37-B217 RS**

**1061622-37 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>106</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:38	VVD
<b>Lead</b>	<b>4.82</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:38	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-38-C204**

**1061622-38 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>470</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:41	VVD
<b>Lead</b>	<b>4.38</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:41	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-39-C207**

**1061622-39 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>327</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:43	VVD
<b>Lead</b>	<b>3.51</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:43	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-40-C210 LS**

**1061622-40 (Drinking Water)**

**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>60.3</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:07	VVD
<b>Lead</b>	<b>11.5</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:07	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-41-C210 RS**

**1061622-41 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>173</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:10	VVD
<b>Lead</b>	<b>38.6</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:10	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-42-A301**

**1061622-42 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>130</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:50	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 01:50	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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MD DW LabID 153

**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-43-A313 LS**

**1061622-43 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>68.2</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:02	VVD
<b>Lead</b>	<b>2.40</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:02	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-44-A313 RS**

**1061622-44 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>163</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:12	VVD
<b>Lead</b>	<b>6.91</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:12	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-45-A313 LAB RM**

**1061622-45 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>189</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:05	VVD
<b>Lead</b>	<b>1.61</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:05	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-46-A317 LS**

**1061622-46 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>166</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:15	VVD
<b>Lead</b>	<b>13.3</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:15	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-47-A317 RS**

**1061622-47 (Drinking Water)**

**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>354</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:17	VVD
<b>Lead</b>	<b>18.1</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:17	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-48-A325**

**1061622-48 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>208</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:07	VVD
<b>Lead</b>	<b>4.30</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:07	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-49-A327**

**1061622-49 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>148</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:10	VVD
<b>Lead</b>	<b>3.20</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:10	VVD

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Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-50-A330**

**1061622-50 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>146</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:12	VVD
<b>Lead</b>	<b>3.71</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 02:12	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-51-C309 FS**

**1061622-51 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>165</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:38	VVD
<b>Lead</b>	<b>8.45</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:38	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-52-C309 LS**

**1061622-52 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>102</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:41	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:41	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-53-C309 RS**

**1061622-53 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>213</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:19	VVD
<b>Lead</b>	<b>12.3</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:19	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-54-C312 FS**

**1061622-54 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>55.9</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:43	VVD
<b>Lead</b>	<b>2.98</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:43	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-55-C312 LS**

**1061622-55 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>141</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:45	VVD
<b>Lead</b>	<b>8.34</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:45	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-56-C312 RS**

**1061622-56 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>1600</b>		ug/L	10.0	10.0	10	06/18/21	06/22/21 17:59	VVD
<b>Lead</b>	<b>13.9</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:22	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-57-B318**

**1061622-57 (Drinking Water)**  
**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>668</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:39	VVD
<b>Lead</b>	<b>3.79</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:39	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-58-B319**

**1061622-58 (Drinking Water)**

**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>511</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:41	VVD
<b>Lead</b>	<b>3.85</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:41	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-59-B323**

**1061622-59 (Drinking Water)**  
**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>166</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:48	VVD
<b>Lead</b>	<b>3.39</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 16:48	VVD

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-60-B328 F**

**1061622-60 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>185</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 17:31	VVD
Lead	ND		ug/L	1.00	1.00	1	06/21/21	06/22/21 17:31	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-61-B331**

**1061622-61 (Drinking Water)**

**Sample Date: 06/16/21**

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
<b>Total Metals Analysis by EPA 200.8DW Prepared by 200.2-Digested Metals</b>									
<b>Copper</b>	<b>251</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:44	VVD
<b>Lead</b>	<b>15.1</b>		ug/L	1.00	1.00	1	06/18/21	06/21/21 21:44	VVD

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**061621TCW-62-B336**

**1061622-62 (Drinking Water)**

**Sample Date: 06/16/21**

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>									
<b>Copper</b>	<b>214</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 17:38	VVD
<b>Lead</b>	<b>7.46</b>		ug/L	1.00	1.00	1	06/21/21	06/22/21 17:38	VVD

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**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 B106348 - 200.2-Digested Metals</b>										
<b>Blank (B106348-BLK1)</b>					Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106348-BLK2)</b>					Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106348-BLK3)</b>					Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>LCS (B106348-BS1)</b>					Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	9.72		1.00	ug/L	10.0		97	80-120		
Lead	8.89		1.00	ug/L	10.0		89	80-120		
<b>LCS (B106348-BS2)</b>					Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	9.34		1.00	ug/L	10.0		93	80-120		
Lead	8.66		1.00	ug/L	10.0		87	80-120		
<b>LCS (B106348-BS3)</b>					Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	9.50		1.00	ug/L	10.0		95	80-120		
Lead	8.83		1.00	ug/L	10.0		88	80-120		
<b>Duplicate (B106348-DUP1)</b>			<b>Source: 1061413-17</b>		Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	419		1.00	ug/L		418			0.3	20
Lead	3.84		1.00	ug/L		3.86			0.7	20
<b>Duplicate (B106348-DUP2)</b>			<b>Source: 1061519-01</b>		Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	505		1.00	ug/L		510			1	20
Lead	1.61		1.00	ug/L		1.58			2	20

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**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
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**Batch B106348 - 200.2-Digested Metals**

<b>Duplicate (B106348-DUP3)</b>			<b>Source: 1061622-09</b>		Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	313		1.00	ug/L		311			0.5	20
Lead	5.91		1.00	ug/L		5.82			2	20
<b>Matrix Spike (B106348-MS1)</b>			<b>Source: 1061413-17</b>		Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	426	QM-4X	1.00	ug/L	10.0	418	78	80-120		
Lead	12.8		1.00	ug/L	10.0	3.86	90	80-120		
<b>Matrix Spike (B106348-MS2)</b>			<b>Source: 1061519-01</b>		Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	511	QM-4X	1.00	ug/L	10.0	510	14	80-120		
Lead	10.5		1.00	ug/L	10.0	1.58	89	80-120		
<b>Matrix Spike (B106348-MS3)</b>			<b>Source: 1061622-09</b>		Prepared: 06/18/21 Analyzed: 06/21/21					
Copper	314	QM-4X	1.00	ug/L	10.0	311	27	80-120		
Lead	14.8		1.00	ug/L	10.0	5.82	90	80-120		

**Batch B106366 - 200.8-No Digestion Metals**

<b>Blank (B106366-BLK1)</b>			Prepared & Analyzed: 06/21/21							
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106366-BLK2)</b>			Prepared & Analyzed: 06/21/21							
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106366-BLK3)</b>			Prepared & Analyzed: 06/21/21							
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						

*Rabecka Koons*

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Rabecka Koons, Quality Assurance Officer



**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**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 B106366 - 200.8-No Digestion Metals</b>										
<b>Blank (B106366-BLK4)</b>					Prepared & Analyzed: 06/21/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106366-BLK5)</b>					Prepared & Analyzed: 06/21/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106366-BLK6)</b>					Prepared & Analyzed: 06/21/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106366-BLK7)</b>					Prepared & Analyzed: 06/21/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106366-BLK8)</b>					Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106366-BLK9)</b>					Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106366-BLKA)</b>					Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						
<b>Blank (B106366-BLKB)</b>					Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	ND		1.00	ug/L						
Lead	ND		1.00	ug/L						

*Rabecka Koons*

Rabecka Koons, Quality Assurance Officer

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**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 B106366 - 200.8-No Digestion Metals</b>										
<b>LCS (B106366-BS1)</b>					Prepared & Analyzed: 06/21/21					
Copper	10.1		1.00	ug/L	10.0		101	80-120		
Lead	9.27		1.00	ug/L	10.0		93	80-120		
<b>LCS (B106366-BS2)</b>					Prepared & Analyzed: 06/21/21					
Copper	10.2		1.00	ug/L	10.0		102	80-120		
Lead	9.46		1.00	ug/L	10.0		95	80-120		
<b>LCS (B106366-BS3)</b>					Prepared & Analyzed: 06/21/21					
Copper	10.4		1.00	ug/L	10.0		104	80-120		
Lead	9.49		1.00	ug/L	10.0		95	80-120		
<b>LCS (B106366-BS4)</b>					Prepared & Analyzed: 06/21/21					
Copper	10.1		1.00	ug/L	10.0		101	80-120		
Lead	9.40		1.00	ug/L	10.0		94	80-120		
<b>LCS (B106366-BS5)</b>					Prepared & Analyzed: 06/21/21					
Copper	9.45		1.00	ug/L	10.0		95	80-120		
Lead	8.77		1.00	ug/L	10.0		88	80-120		
<b>LCS (B106366-BS6)</b>					Prepared & Analyzed: 06/21/21					
Copper	10.5		1.00	ug/L	10.0		105	80-120		
Lead	9.61		1.00	ug/L	10.0		96	80-120		
<b>LCS (B106366-BS7)</b>					Prepared & Analyzed: 06/21/21					
Copper	9.37		1.00	ug/L	10.0		94	80-120		
Lead	8.74		1.00	ug/L	10.0		87	80-120		
<b>LCS (B106366-BS8)</b>					Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	10.1		1.00	ug/L	10.0		101	80-120		
Lead	9.50		1.00	ug/L	10.0		95	80-120		

*Rabecka Koons*

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Rabecka Koons, Quality Assurance Officer

**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**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 B106366 - 200.8-No Digestion Metals</b>										
<b>LCS (B106366-BS9)</b>					Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	9.94		1.00	ug/L	10.0		99	80-120		
Lead	9.21		1.00	ug/L	10.0		92	80-120		
<b>LCS (B106366-BSA)</b>					Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	10.0		1.00	ug/L	10.0		100	80-120		
Lead	9.38		1.00	ug/L	10.0		94	80-120		
<b>LCS (B106366-BSB)</b>					Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	9.94		1.00	ug/L	10.0		99	80-120		
Lead	9.52		1.00	ug/L	10.0		95	80-120		
<b>Duplicate (B106366-DUP1)</b>			<b>Source: 1061413-01</b>		Prepared & Analyzed: 06/21/21					
Copper	280		1.00	ug/L		282			0.5	20
Lead	1.17		1.00	ug/L		1.05			11	20
<b>Duplicate (B106366-DUP2)</b>			<b>Source: 1061413-20</b>		Prepared & Analyzed: 06/21/21					
Copper	599		1.00	ug/L		602			0.5	20
Lead	2.56		1.00	ug/L		2.55			0.5	20
<b>Duplicate (B106366-DUP3)</b>			<b>Source: 1061414-01</b>		Prepared & Analyzed: 06/21/21					
Copper	74.2		1.00	ug/L		74.6			0.5	20
Lead	ND		1.00	ug/L		ND				20
<b>Duplicate (B106366-DUP4)</b>			<b>Source: 1061519-02</b>		Prepared & Analyzed: 06/21/21					
Copper	949		1.00	ug/L		941			0.8	20
Lead	2.44		1.00	ug/L		2.44			0.09	20
<b>Duplicate (B106366-DUP5)</b>			<b>Source: 1061520-01</b>		Prepared & Analyzed: 06/21/21					
Copper	411		1.00	ug/L		412			0.2	20
Lead	2.74		1.00	ug/L		2.77			1	20

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**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 B106366 - 200.8-No Digestion Metals</b>										
<b>Duplicate (B106366-DUP6)</b>			<b>Source: 1061603-01</b>		Prepared & Analyzed: 06/21/21					
Copper	30.4		1.00	ug/L		30.5			0.4	20
Lead	2.03		1.00	ug/L		2.01			0.8	20
<b>Duplicate (B106366-DUP7)</b>			<b>Source: 1061622-01</b>		Prepared & Analyzed: 06/21/21					
Copper	102		1.00	ug/L		103			0.8	20
Lead	ND		1.00	ug/L		ND				20
<b>Duplicate (B106366-DUP8)</b>			<b>Source: 1061622-20</b>		Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	144		1.00	ug/L		146			0.9	20
Lead	ND		1.00	ug/L		ND				20
<b>Duplicate (B106366-DUP9)</b>			<b>Source: 1061622-42</b>		Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	128		1.00	ug/L		130			2	20
Lead	ND		1.00	ug/L		ND				20
<b>Duplicate (B106366-DUPA)</b>			<b>Source: 1061622-60</b>		Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	190		1.00	ug/L		185			3	20
Lead	ND		1.00	ug/L		ND				20
<b>Duplicate (B106366-DUPB)</b>			<b>Source: 1061804-01</b>		Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	17.2		1.00	ug/L		17.4			1	20
Lead	ND		1.00	ug/L		1.22				20
<b>Matrix Spike (B106366-MS1)</b>			<b>Source: 1061413-01</b>		Prepared & Analyzed: 06/21/21					
Copper	285	QM-4X	1.00	ug/L	10.0	282	34	80-120		
Lead	10.9		1.00	ug/L	10.0	1.05	98	80-120		
<b>Matrix Spike (B106366-MS2)</b>			<b>Source: 1061413-20</b>		Prepared & Analyzed: 06/21/21					
Copper	592	QM-4X	1.00	ug/L	10.0	602	NR	80-120		
Lead	12.1		1.00	ug/L	10.0	2.55	96	80-120		

*Rabecka Koons*

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**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**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 B106366 - 200.8-No Digestion Metals</b>										
<b>Matrix Spike (B106366-MS3)</b>			<b>Source: 1061414-01</b>		Prepared & Analyzed: 06/21/21					
Copper	82.7		1.00	ug/L	10.0	74.6	81	80-120		
Lead	10.8		1.00	ug/L	10.0	ND	108	80-120		
<b>Matrix Spike (B106366-MS4)</b>			<b>Source: 1061519-02</b>		Prepared & Analyzed: 06/21/21					
Copper	923	QM-4X	1.00	ug/L	10.0	941	NR	80-120		
Lead	11.9		1.00	ug/L	10.0	2.44	94	80-120		
<b>Matrix Spike (B106366-MS5)</b>			<b>Source: 1061520-01</b>		Prepared & Analyzed: 06/21/21					
Copper	407	QM-4X	1.00	ug/L	10.0	412	NR	80-120		
Lead	11.5		1.00	ug/L	10.0	2.77	87	80-120		
<b>Matrix Spike (B106366-MS6)</b>			<b>Source: 1061603-01</b>		Prepared & Analyzed: 06/21/21					
Copper	39.0		1.00	ug/L	10.0	30.5	85	80-120		
Lead	11.6		1.00	ug/L	10.0	2.01	96	80-120		
<b>Matrix Spike (B106366-MS7)</b>			<b>Source: 1061622-01</b>		Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	110	QM-4X	1.00	ug/L	10.0	103	72	80-120		
Lead	9.68		1.00	ug/L	10.0	ND	97	80-120		
<b>Matrix Spike (B106366-MS8)</b>			<b>Source: 1061622-20</b>		Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	152	QM-4X	1.00	ug/L	10.0	146	62	80-120		
Lead	10.0		1.00	ug/L	10.0	ND	100	80-120		
<b>Matrix Spike (B106366-MS9)</b>			<b>Source: 1061622-42</b>		Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	135	QM-4X	1.00	ug/L	10.0	130	49	80-120		
Lead	10.0		1.00	ug/L	10.0	ND	100	80-120		
<b>Matrix Spike (B106366-MSA)</b>			<b>Source: 1061622-60</b>		Prepared: 06/21/21 Analyzed: 06/22/21					
Copper	198	QM-4X	1.00	ug/L	10.0	185	125	80-120		
Lead	8.97		1.00	ug/L	10.0	ND	90	80-120		

*Rabecka Koons*

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Rabecka Koons, Quality Assurance Officer

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

**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**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
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**Batch B106366 - 200.8-No Digestion Metals**

**Matrix Spike (B106366-MSB)**

**Source: 1061804-01**

Prepared: 06/21/21 Analyzed: 06/22/21

Copper	26.6		1.00	ug/L	10.0	17.4	92	80-120		
Lead	4.62	QM-07	1.00	ug/L	10.0	1.22	34	80-120		

*Rabecka Koons*

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

**Project: ACPS-TCW**

Project Number: 47:11652-E  
Project Manager: Michael Hamill

Reported:  
06/23/21 17:29

**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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



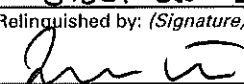
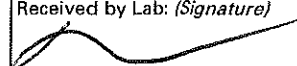
Rabecka Koons, Quality Assurance Officer

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<b>Company Name:</b> ECS Mid-Atlantic LLC 14026 Thunderbolt Place Suite 100 Chantilly VA 20151						<b>Project Manager:</b> Michael Hamill																	<b>Analysis Requested</b>							<b>CHAIN-OF-CUSTODY RECORD</b>									
<b>Project Name:</b> ACPS Water Sampling						<b>Project ID:</b> 47:11652-E															Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 <a href="mailto:lshman@mdspectral.com">lshman@mdspectral.com</a>																		
<b>Sampler(s):</b> JT & BF						<b>P.O. Number:</b> 47:11652-E															Matrix Codes: NW (nonpotable water) PW (potable water)																		
Field Sample ID						Date	Time	Water	Soil	Other	No. of Containers	Lead (200.8 DW-Pb)	Copper (200.8 DW-Cu)										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, QC Request, Trip Blank, Field Blank	MSS Lab ID														
06162ITCW-01-L100 FS						6-16	5:11	X			1	X	X									HNO <sub>3</sub>		/06162L-01															
06162ITCW-02-L100 MS						6-16	5:14	X			1	X	X									HNO <sub>3</sub>		- 0 2															
06162ITCW-03-L100 BSR						6-16	5:15	X			1	X	X									HNO <sub>3</sub>		- 0 3															
06162ITCW-04-L100 BSL						6-16	5:15	X			1	X	X									HNO <sub>3</sub>		- 0 4															
06162ITCW-05-C110						6-16	5:20	X			1	X	X									HNO <sub>3</sub>		- 0 5															
06162ITCW-06-C109 SR						6-16	5:22	X			1	X	X									HNO <sub>3</sub>		- 0 6															
06162ITCW-07-C109 SL						6-16	5:23	X			1	X	X									HNO <sub>3</sub>		- 0 7															
06162ITCW-08-E12S						6-16	5:28	X			1	X	X									HNO <sub>3</sub>		- 0 8															
06162ITCW-09-E13O						6-16	5:29	X			1	X	X									HNO <sub>3</sub>		- 0 9															
06162ITCW-10-E11S S						6-16	5:32	X			1	X	X									HNO <sub>3</sub>		- 1 0															
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(Printed) John Turner						6-16-21		(Printed)						(Printed)								(Printed)																	
<b>Relinquished by: (Signature)</b> 						<b>Date/Time</b> 15:11		<b>Received by Lab: (Signature)</b> 						<b>Turn Around Time:</b> <input type="checkbox"/> Normal (7 day) <input checked="" type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 3 day <input type="checkbox"/> Rush (2 day) <input type="checkbox"/> Next Day <input type="checkbox"/> Other: <input type="checkbox"/> Specific Due Date:						<b>Lab Use:</b> Temp: ____°C 24.2 <input type="checkbox"/> Received on Ice <input checked="" type="checkbox"/> Received same day <input type="checkbox"/> Preservation Appropriate																			
(Printed)						6-16-21		Lori Foster																															
<b>Delivery Method:</b> <input type="checkbox"/> X Courier <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS <input type="checkbox"/> Other:						<b>Special Instructions/QC Requirements &amp; Comments:</b>																		<b>Sample Disposal:</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive for _____ days															

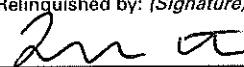

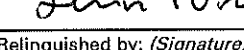
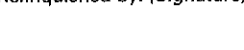
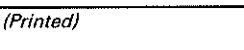
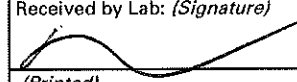


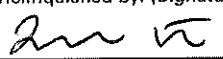
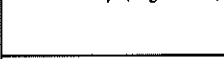



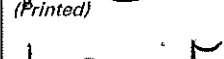
2

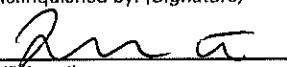
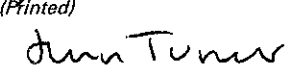
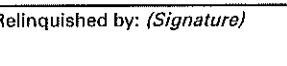


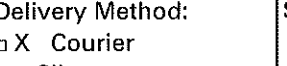


<b>Company Name:</b> ECS Mid-Atlantic LLC 14026 Thunderbolt Place Suite 100 Chantilly VA 20151		<b>Project Manager:</b> Michael Hamill		<b>Analysis Requested</b>										<b>CHAIN-OF-CUSTODY RECORD</b>			
<b>Project Name:</b> ACPS Water Sampling		<b>Project ID:</b> 47:11652-E		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Containers</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Lead (200.8 DW-Pb)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Copper (200.8 DW-Cu)</div> </div>										Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com			
<b>Sampler(s):</b> JT + BF		<b>P.O. Number:</b> 47:11652-E												Matrix Codes: NW (nonpotable water) PW (potable water)			
Field Sample ID		Date	Time											Water	Soil	Other	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>
061621TCW-11-ELIS B		6-16	5:33	X			1	X	X						HNO <sub>3</sub>		1061622-11
061621TCW-12-B110		6-16	5:38	X			1	X	X						HNO <sub>3</sub>		-12
061621TCW-13-B127FS		6-16	5:43	X			1	X	X						HNO <sub>3</sub>		-13
061621TCW-14-B127LS		6-16	5:43	X			1	X	X						HNO <sub>3</sub>		-14
061621TCW-15-B127RS		6-16	5:43	X			1	X	X						HNO <sub>3</sub>		-15
061621TCW-16-B131LS		6-16	5:47	X			1	X	X						HNO <sub>3</sub>		-16
061621TCW-17-B131RC		6-16	5:47	X			1	X	X						HNO <sub>3</sub>		-17
061621TCW-18-WING B Function		6-16	5:50	X			1	X	X						HNO <sub>3</sub>		-18
061621TCW-19-A110N		6-16	5:54	X			1	X	X						HNO <sub>3</sub>		-19
061621TCW-20-A122		6-16	5:56	X			1	X	X						HNO <sub>3</sub>		-20
<b>Relinquished by: (Signature)</b>  <b>(Printed)</b> John Turner		<b>Date/Time</b> 6-16-21 8:55		<b>Received by: (Signature)</b>  <b>(Printed)</b>  				<b>Relinquished by: (Signature)</b>  <b>(Printed)</b>  				<b>Date/Time</b>  		<b>Received by: (Signature)</b>  <b>(Printed)</b>  			
<b>Relinquished by: (Signature)</b>  <b>(Printed)</b>  		<b>Date/Time</b> 15:11 6-16-21		<b>Received by Lab: (Signature)</b>  <b>(Printed)</b> Lori Foster				<b>Turn Around Time:</b> <input type="checkbox"/> Normal (7 day) <input checked="" type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 3 day <input type="checkbox"/> Rush (2 day) <input type="checkbox"/> Next Day <input type="checkbox"/> Other: _____ <input type="checkbox"/> Specific Due Date: _____				<b>Lab Use:</b> Temp: _____°C <input type="checkbox"/> Received on Ice <input checked="" type="checkbox"/> Received same day <input type="checkbox"/> Preservation Appropriate Sample Disposal: <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive for _____ days					
<b>Delivery Method:</b> <input type="checkbox"/> X Courier <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS <input type="checkbox"/> Other: _____		<b>Special Instructions/QC Requirements &amp; Comments:</b>															


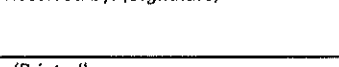
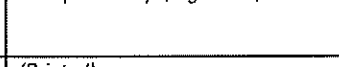

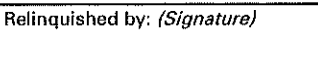
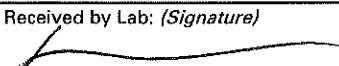
Company Name: ECS Mid-Atlantic LLC 14026 Thunderbolt Place Suite 100 Chantilly VA 20151			Project Manager: Michael Hamill			No. of Containers	Analysis Requested										CHAIN-OF-CUSTODY RECORD		
Project Name: ACPs Water Sampling			Project ID: 47:11652-E				Lead (200.8 DW-Pb)	Copper (200.8 DW-Cu)									Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com		
Sampler(s): JT + BF			P.O. Number: 47:11652-E														Matrix Codes: NW (nonpotable water) PW (potable water)		
Field Sample ID			Date	Time	Water												Soil	Other	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>
061621TCW-21-A102			6-16	5:58	X			1	X	X							HNO <sub>3</sub>		1061622-21
061621TCW-22-A201			6-16	6:01	X			1	X	X							HNO <sub>3</sub>		- 22
061621TCW-23-A216 FS			6-16	6:04	X			1	X	X							HNO <sub>3</sub>		- 23
061621TCW-24-A216 LS			6-16	6:04	X			1	X	X							HNO <sub>3</sub>		- 24
061621TCW-25-A216 RS			6-16	6:04	X			1	X	X							HNO <sub>3</sub>		- 25
061621TCW-26-A218 LS			6-16	6:05	X			1	X	X							HNO <sub>3</sub>		- 26
061621TCW-27-A218 RS			6-16	6:05	X			1	X	X							HNO <sub>3</sub>		- 27
061621TCW-28-2nd FL B			6-16	6:12	X			1	X	X							HNO <sub>3</sub>		- 28
061621TCW-29-B218 FS			6-16	6:14	X			1	X	X							HNO <sub>3</sub>		- 29
061621TCW-30-B218 LS			6-16	6:14	X			1	X	X							HNO <sub>3</sub>		- 30
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)									
(Printed)		6-16-21		(Printed)		(Printed)		9:11		(Printed)									
John Turner																			
Relinquished by: (Signature)		Date/Time		Received by Lab: (Signature)		Turn Around Time:		Lab Use:											
(Printed)		15:11		(Printed)		□ Normal (7 day) X □ 5 day □ 4 day □ 3 day □ Rush (2 day) □ Next Day □ Other: _____ □ Specific Due Date: _____		Temp: ____°C 24.2 □ Received on Ice X Received same day □ Preservation Appropriate											
6-16-21		Lori Foster						Sample Disposal: □ Return to Client □ Disposal by lab □ Archive for ____ days											
Delivery Method: □ X Courier □ Client □ UPS □ FedEx □ USPS □ Other: _____		Special Instructions/QC Requirements & Comments:																	

4

<b>Company Name: ECS Mid-Atlantic LLC 14026 Thunderbolt Place Suite 100 Chantilly VA 20151</b>		<b>Project Manager:</b> Michael Hamill		<b>Analysis Requested</b>										<b>CHAIN-OF-CUSTODY RECORD</b>					
<b>Project Name:</b> ACPS Water Sampling		<b>Project ID:</b> 47:11652-E		<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Containers</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Lead (200.8 DW-Pb)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Copper (200.8 DW-Cu)</div> </div>										Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com					
<b>Sampler(s):</b> JT + BF		<b>P.O. Number:</b> 47:11652-E												Matrix Codes: NW (nonpotable water) PW (potable water)					
<b>Field Sample ID</b>		<b>Date</b>	<b>Time</b>											<b>Water</b>	<b>Soil</b>	<b>Other</b>	<b>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></b>	<b>Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank</b>	<b>MSS Lab ID</b>
061621TCW-31-B218RS	6-16	6:14	X			1	X	X									HNO <sub>3</sub>		1061622-
061621TCW-32-B213FS	6-16	6:20	X			1	X	X									HNO <sub>3</sub>		-32
061621TCW-33-B213LS	6-16	6:20	X			1	X	X									HNO <sub>3</sub>		-33
061621TCW-34-B213RS	6-16	6:20	X			1	X	X									HNO <sub>3</sub>		-34
061621TCW-35-B217FS	6-16	6:21	X			1	X	X									HNO <sub>3</sub>		-35
061621TCW-36-B217LS	6-16	6:21	X			1	X	X									HNO <sub>3</sub>		-36
061621TCW-37-B217RS	6-16	6:28	X			1	X	X									HNO <sub>3</sub>		-37
061621TCW-38-C204	6-16	6:31	X			1	X	X									HNO <sub>3</sub>		-38
061621TCW-39-C207	6-16	6:33	X			1	X	X									HNO <sub>3</sub>		-39
061621TCW-40-C210LS	6-16	6:33	X			1	X	X									HNO <sub>3</sub>		-40
<b>Relinquished by: (Signature)</b> 		<b>Date/Time</b> 6-16-21		<b>Received by: (Signature)</b> 				<b>Relinquished by: (Signature)</b> 				<b>Date/Time</b>		<b>Received by: (Signature)</b> 					
<b>(Printed)</b> John Turner		9:37		<b>(Printed)</b>				<b>(Printed)</b>				<b>(Printed)</b>		<b>(Printed)</b>					
<b>Relinquished by: (Signature)</b> 		<b>Date/Time</b> 15:11		<b>Received by Lab: (Signature)</b> 				<b>Turn Around Time:</b>				<b>Lab Use:</b>							
<b>(Printed)</b>		6-16-21		<b>(Printed)</b> Lori Foster				<input type="checkbox"/> Normal (7 day) <input checked="" type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 3 day <input type="checkbox"/> Rush (2 day) <input type="checkbox"/> Next Day <input type="checkbox"/> Other: _____ <input type="checkbox"/> Specific Due Date: _____				Temp: _____°C 24.2 <input type="checkbox"/> Received on Ice <input checked="" type="checkbox"/> Received same day <input type="checkbox"/> Preservation Appropriate							
<b>Delivery Method:</b> <input type="checkbox"/> X Courier <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS <input type="checkbox"/> Other: _____		<b>Special Instructions/QC Requirements &amp; Comments:</b>																	

<b>Company Name: ECS Mid-Atlantic LLC 14026 Thunderbolt Place Suite 100 Chantilly VA 20151</b>		<b>Project Manager:</b> Michael Hamill		<b>Analysis Requested</b>										<b>CHAIN-OF-CUSTODY RECORD</b>					
<b>Project Name:</b> ACPS Water Sampling		<b>Project ID:</b> 47:11652-E		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">No. of Containers</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Lead (200.8 DW-Pb)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Copper (200.8 DW-Cu)</div> <div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div> </div>										Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com					
<b>Sampler(s):</b> JT + BF		<b>P.O. Number:</b> 47:11652-E												Matrix Codes: NW (nonpotable water) PW (potable water)					
<b>Field Sample ID</b>	<b>Date</b>	<b>Time</b>	<b>Water</b>											<b>Soil</b>	<b>Other</b>	<b>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></b>	<b>Field pH, Residual Chlorine, QC Request, Trip Blank, Field Blank</b>	<b>MSS Lab ID</b>	
061621TCW-41- A210 RS	6-16	6:33	X			1	X	X									HNO <sub>3</sub>		1061622-41
061621TCW-42 - A301	6-16	6:40	X			1	X	X									HNO <sub>3</sub>		- 42
061621TCW-43 - A313 LS	6-16	6:43	X			1	X	X									HNO <sub>3</sub>		- 43
061621TCW-44 - A313 RS	6-16	6:43	X			1	X	X									HNO <sub>3</sub>		- 44
061621TCW-45 - A313 Lab RM	6-16	6:44	X			1	X	X									HNO <sub>3</sub>		- 45
061621TCW-46 - A317 LS	6-16	6:44	X			1	X	X									HNO <sub>3</sub>		- 46
061621TCW-47 - A317 RS	6-16	6:44	X			1	X	X									HNO <sub>3</sub>		- 47
061621TCW-48 - A32S	6-16	6:54	X			1	X	X									HNO <sub>3</sub>		- 48
061621TCW-49 - A327	6-16	6:55	X			1	X	X									HNO <sub>3</sub>		- 49
061621TCW-50 - A330	6-16	6:55	X			1	X	X									HNO <sub>3</sub>		- 50
<b>Relinquished by: (Signature)</b> 		<b>Date/Time</b> 6-16-21		<b>Received by: (Signature)</b> 				<b>Relinquished by: (Signature)</b> 				<b>Date/Time</b>		<b>Received by: (Signature)</b> 					
<b>(Printed)</b> John Turner		9:48		<b>(Printed)</b>				<b>(Printed)</b>				<b>(Printed)</b>		<b>(Printed)</b>					
<b>Relinquished by: (Signature)</b> 		<b>Date/Time</b> 15:11 6-16-21		<b>Received by Lab: (Signature)</b> 				<b>Turn Around Time:</b> <input type="checkbox"/> Normal (7 day) <input checked="" type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 3 day <input type="checkbox"/> Rush (2 day) <input type="checkbox"/> Next Day <input type="checkbox"/> Other: _____ <input type="checkbox"/> Specific Due Date: _____				<b>Lab Use:</b> Temp: _____°C 24.2 <input type="checkbox"/> Received on Ice <input checked="" type="checkbox"/> Received same day <input type="checkbox"/> Preservation Appropriate							
<b>(Printed)</b>		6-16-21		<b>(Printed)</b> Lori Foster								<b>Sample Disposal:</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive for _____ days							
<b>Delivery Method:</b> <input checked="" type="checkbox"/> X Courier <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS <input type="checkbox"/> Other: _____		<b>Special Instructions/QC Requirements &amp; Comments:</b>																	

Company Name: <b>ECS Mid-Atlantic LLC 14026 Thunderbolt Place Suite 100 Chantilly VA 20151</b>		Project Manager: Michael Hamill		Analysis Requested										<b>CHAIN-OF-CUSTODY RECORD</b>											
Project Name: ACPS Water Sampling		Project ID: 47:11652-E												No. of Containers			Lead (200.8 DW-Pb)			Copper (200.8 DW-Cu)			Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 lahman@mdspectral.com		
Sampler(s): JT + BF		P.O. Number: 47:11652-E																					Matrix Codes: NW (nonpotable water) PW (potable water)		
Field Sample ID		Date	Time																				Water	Soil	Other
06162ITCW-S1 - C309 FS		6-16	7:01	X			1	X	X						HNO <sub>3</sub>		1061622-51								
06162ITCW-S2 - C309 LS		6-16	7:01	X			1	X	X						HNO <sub>3</sub>		- 52								
06162ITCW-S3 - C309 RS		6-16	7:01	X			1	X	X						HNO <sub>3</sub>		- 53								
06162ITCW-S4 - C312 FS		6-16	7:05	X			1	X	X						HNO <sub>3</sub>		- 54								
06162ITCW-S5 - C312 LS		6-16	7:05	X			1	X	X						HNO <sub>3</sub>		- 55								
06162ITCW-S6 - C312 RS		6-16	7:05	X			1	X	X						HNO <sub>3</sub>		- 56								
06162ITCW-S7 - B318		6-16	7:04	X			1	X	X						HNO <sub>3</sub>		- 57								
06162ITCW-S8 - B319		6-16	7:17	X			1	X	X						HNO <sub>3</sub>		- 58								
06162ITCW-S9 - B323		6-16	7:18	X			1	X	X						HNO <sub>3</sub>		- 59								
06162ITCW-60 - B328 F		6-16	7:21	X			1	X	X						HNO <sub>3</sub>		- 60								
Relinquished by: (Signature) 		Date/Time 6-16-21		Received by: (Signature) 		Relinquished by: (Signature) 		Date/Time 9:58		Received by: (Signature) 		Turn Around Time: <input type="checkbox"/> Normal (7 day) <input checked="" type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 3 day <input type="checkbox"/> Rush (2 day) <input type="checkbox"/> Next Day <input type="checkbox"/> Other: _____ <input type="checkbox"/> Specific Due Date: _____		Lab Use: Temp: _____°C 24.2 <input type="checkbox"/> Received on Ice <input checked="" type="checkbox"/> Received same day <input type="checkbox"/> Preservation Appropriate											
(Printed) John Turner				(Printed)		(Printed)				(Printed)															
Relinquished by: (Signature) 		Date/Time 15:11		Received by Lab: (Signature) 		Relinquished by: (Signature) 		Date/Time 6-16-21		Received by Lab: (Signature) 		Sample Disposal: <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive for _____ days													
(Printed)				(Printed)		(Printed)				(Printed)															
Delivery Method: <input type="checkbox"/> X Courier <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS <input type="checkbox"/> Other: _____		Special Instructions/QC Requirements & Comments:																							

Company Name: ECS Mid-Atlantic LLC 14026 Thunderbolt Place Suite 100 Chantilly VA 20151		Project Manager: Michael Hamill		Analysis Requested												CHAIN-OF-CUSTODY RECORD			
Project Name: ACPS Water Sampling		Project ID: 47:11652-E														Maryland Spectral Services, Inc. 1500 Caton Center Drive, Suite G Baltimore, MD 21227 410-247-7600 • Fax 410-247-7602 labman@mdspectral.com			
Sampler(s): JT + BF		P.O. Number: 47:11652-E														Matrix Codes: NW (nonpotable water) PW (potable water)			
Field Sample ID	Date	Time	Water	Soil	Other	No. of Containers	Lead (200.8 DW-Pb)	Copper (200.8 DW-Cu)									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, QC Request, Trip Blank, Field Blank	MSS Lab ID
061621TCW-61-B331	6-16	7:22	X			1	X	X									HNO <sub>3</sub>		1061622-61
061621TCW-62-B336	6-16	7:23	X			1	X	X									HNO <sub>3</sub>		- 62
Relinquished by: (Signature) 	Date/Time 6-16-21	Received by: (Signature) 		Relinquished by: (Signature) 		Date/Time 9:59		Received by: (Signature) 											
(Printed) John Turner		(Printed)		(Printed)				(Printed)											
Relinquished by: (Signature) 	Date/Time 6-16-21	Received by Lab: (Signature) 		Turn Around Time: <input type="checkbox"/> Normal (7 day) <input checked="" type="checkbox"/> 5 day <input type="checkbox"/> 4 day <input type="checkbox"/> 3 day <input type="checkbox"/> Rush (2 day) <input type="checkbox"/> Next Day <input type="checkbox"/> Other: _____ <input type="checkbox"/> Specific Due Date: _____		Lab Use: Temp: _____°C 24.2 <input type="checkbox"/> Received on Ice <input checked="" type="checkbox"/> Received same day <input type="checkbox"/> Preservation Appropriate													
(Printed)		(Printed) Lori Foster																	
Delivery Method: <input type="checkbox"/> X Courier <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> USPS <input type="checkbox"/> Other: _____	Special Instructions/QC Requirements & Comments:									Sample Disposal: <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive for _____ days									

## **Appendix IV: List of Previous Reports**

## **List of Previous Reports:**

- [47:1519-K APCS T.C. Williams High School Lead and Copper Drinking Water Sampling Report](#)  
dated January 31, 2020
- [47:1519-K T.C. Williams High School Lead and Copper Drinking Water Resampling Report](#)  
dated May 4, 2020
- [47:1519-K T.C. Williams Lead and Copper Drinking Water October 2020 Resampling Report](#)  
dated November 10, 2020