

**LIMITED LEAD AND COPPER IN DRINKING WATER
SAMPLING**

**Morrow High School
CCPS No. 4058
2299 Old Rex Morrow Road
Morrow, GA 30260**

GLE Project No.: 18000-18861

Prepared for:

**Clayton County Public Schools
1058 Fifth Avenue
Jonesboro, Georgia 30236**

October 2018

Prepared by:



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1.0 INTRODUCTION

GLE was contracted by Clayton County Public Schools (CCPS), through RFP No. 017-17, to perform water collection and testing services for lead and copper at Morrow High School. The purpose of the contracted project was to collect and test water samples taken from CCPS drinking, cooking, and nursing water outlets to identify the presence of lead and copper in the water of CCPS schools and administrative/support buildings. Outlets not used for drinking, such as restroom faucets, maintenance areas, and science labs were excluded from this scope of work. The testing was generally performed in accordance with the Environmental Protection Agency (EPA)'s 3Ts for Reducing Lead in Drinking Water in Schools Technical Guidance Document (revised October 2006).

On October 8, 2018, Ms. Katrina Riley and Ms. Isis Hamilton of GLE Associates, Inc. (GLE), performed initial lead and copper in drinking water sampling of Client-designated drinking water fountains and outlets used for drinking, cooking, and/or nursing located within Morrow High School located at 2299 Old Rex Morrow Road in Jonesboro, Georgia. According to the Client's representative, Morrow High School was originally constructed in 1970, with major renovations or additions in 1977, 1980, 1981, 1990 and 2013. It is our understanding that no previous water testing has been conducted at Morrow High School.

2.0 INVENTORY AND SAMPLING PLANS

Prior to the initial sampling event, on February 20, 2018, GLE mobilized to the site to inventory the existing outlets at the facility to devise a sampling plan. Further, GLE submitted a Plumbing Profile to CCPS to complete prior to sampling. Based on the results of GLE's inventory and CCPS's plumbing profile, a sampling plan was created and provided to CCPS. A copy of the Sampling Plan with the sample number identifying sample areas is included in **Appendix C**.

3.0 LEAD AND COPPER IN DRINKING WATER SAMPLING PROCEDURES

Prior to the sampling events, a Client-designated representative flushed the drinking, cooking, and nursing water outlets the night before each sampling event (or between at least 8 to 18 hours prior to the sampling event). Refrigerated drinking water fountains were flushed for 15 minutes. Non-refrigerated fountains and faucets used for drinking and cleaning were run for 30 seconds to one minute or until cold. The remaining Client-designated faucets were flushed for 10 minutes. The flushing was performed from the faucet located furthest away from the service line on each wing and/or floor of the building. Once the flushing was complete, CCPS personnel logged the completion date and time on the outlet flushed. GLE confirmed the 8 to 18 hour window prior to taking samples from flushed outlets and submitting them to the laboratory for analysis.

GLE assumed that the water supply lines and outlets in the assessed building were operating properly at the time of sampling. One representative water sample for lead and copper analysis was collected from each outlet identified in the sampling plan utilizing sterile, 250 milliliter (mL) sampling bottles preserved with nitric acid (HNO_3). The sample was collected immediately after activating the water fountain or outlet, described in this report as “first draw”.

The collected samples were submitted to Waypoint Analytical, Inc., a qualified laboratory in Memphis, Tennessee, for analysis. The samples were analyzed for lead and copper in water by Inductively Coupled Plasma/Mass Spectroscopy (ICP/MS) in general accordance with EPA Method 200.8. A summary of the sampling locations and the associated analytical results are summarized below and in the attached table. The laboratory reports and chain of custodies are located in **Appendix A**. A copy of the laboratory’s certification is included in **Appendix B**.

4.0 LEAD AND COPPER IN DRINKING WATER SAMPLING FINDINGS

A total of 61 water samples were collected for analysis of lead and copper content, comprised of one, water sample (first draw) from each Client-designated water fountain or outlet at the above-referenced school. The sample ID consisted of “W” for water, sample number, followed by A for first draw. Outlets identified in room 36 drinking water fountain and drinking water, room 53 drinking water fountain, and room 57 drinking water fountain were not flushed/ inoperable during the initial sampling event. A summary of the analytical results for the lead and copper in drinking water sampling follows in **Table 4.1 – Summary of Lead and Copper in Drinking Water Sampling Results**. The reporting limit for the lead sample analysis was 0.500 micrograms per liter ($\mu\text{g/L}$) or parts per billion (ppb) and for copper sample analysis was 0.500 micrograms per liter ($\mu\text{g/L}$) or parts per billion (ppb).

According to the EPA’s 3Ts for Reducing Lead in Drinking Water in Schools Technical Guidance Document (revised October 2006), EPA recommends that water fountains and/or outlets be taken out of service if the lead level exceeds **20 $\mu\text{g/L}$ or ppb** and if the copper level exceeds **1,300 $\mu\text{g/L}$ or ppb**. Public water supply (PWS) systems are subject to an action level (AL) of **15 $\mu\text{g/L}$ or ppb** of lead in water for treatment (specifically, if more than 10% of samples at residences tested exceed 15 ppb, system-wide corrosion control treatment may be necessary). For the purposes of this sampling event CCPS is taking corrective action for samples reported at or greater than **15 $\mu\text{g/L}$ or ppb for lead and 1,300 $\mu\text{g/L}$ or ppb for copper**.

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MORROW HIGH SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W1A	ADMIN WORKROOM DRINKING WATER	BRL	198
W2A	ADMIN NEAR SECRETARY OFFICE DRINKING WATER FOUNTAIN	BRL	136
W3A	OUTSIDE ADMIN ADJ ROM 1 STORAGE CLOSET DRINKING WATER FOUNTAIN (RIGHT)	BRL	83.2
W4A	OUTSIDE ADMIN ADJ ROM 1 STORAGE CLOSET DRINKING WATER FOUNTAIN (LEFT)	BRL	54.2
W5A	HALLWAY NEAR ROOM 6 DRINKING WATER FOUNTAIN (RIGHT)	BRL	33.5
W6A	HALLWAY NEAR ROOM 6 DRINKING WATER FOUNTAIN (LEFT)	BRL	51.5
W7A	ROTC BREAKROOM DRINKING WATER	1.79	113
W8A	HALLWAY NEAR ROOM 15 DRINKING WATER FOUNTAIN (RIGHT)	BRL	128
W9A	HALLWAY NEAR ROOM 15 DRINKING WATER FOUNTAIN (LEFT)	BRL	127
W10A	HALLWAY NEAR ROOM 17 DRINKING WATER FOUNTAIN (RIGHT)	BRL	51.2
W11A	HALLWAY NEAR ROOM 17 DRINKING WATER FOUNTAIN (LEFT)	BRL	34.3
W12A	CLASSROOM 17 DRINKING WATER	11.4	130
W13A	CLASSROOM 19 DRINKING WATER (IN CLOSET)	10.6	99.1

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MORROW HIGH SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W14A	CLASSROOM 19 SE WALL RIGHT NEAR DOOR DRINKING WATER	BRL	128
W15A	CLASSROOM SE WALL MIDDLE DRINKING WATER	BRL	158
W16A	CLASSROOM 19 SE WALL LEFT DRINKING WATER	5.92	113
W17A	CLASSROOM 19 E WALL DRINKING WATER	2.66	142
W18A	HALLWAY NEAR ROOM 25 DRINKING WATER FOUNTAIN (RIGHT)	BRL	52.3
W19A	HALLWAY NEAR ROOM 25 DRINKING WATER FOUNTAIN (LEFT)	BRL	51.5
W20A	HALLWAY NEAR ROOM 27 DRINKING WATER FOUNTAIN (RIGHT)	BRL	49.2
W21A	HALLWAY NEAR ROOM 27 DRINKING WATER FOUNTAIN (LEFT)	BRL	120
W22A	HALLWAY NEAR CHORUS ROOM DRINKING WATER FOUNTAIN (RIGHT)	BRL	126
W23A	HALLWAY NEAR CHORUS ROOM DRINKING WATER FOUNTAIN (LEFT)	BRL	116
W24A	HALLWAY NEAR MEN LOCKER ROOM DRINKING WATER FOUNTAIN (RIGHT)	BRL	140
W25A	HALLWAY NEAR MEN LOCKER ROOM DRINKING WATER FOUNTAIN (LEFT)	BRL	157
W26A	HALLWAY CONCESSIONS DRINKING WATER FOUNTAIN (RIGHT)	BRL	64.2
W27A	HALLWAY CONCESSIONS DRINKING WATER FOUNTAIN (LEFT)	BRL	53.8

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MORROW HIGH SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W28A	CONCESSION STAND DRINKING WATER	BRL	54.4
W29A	CONCESSION STAND ICE MACHINE	BRL	BRL
W30A	CAFETERIA DRINKING WATER FOUNTAIN NE (RIGHT)	BRL	56.9
W31A	CAFETERIA BOTTLE FILLER NE (RIGHT)	BRL	79.3
W32A	CAFETERIA DRINKING WATER NW (LEFT)	1.81	104
W33A	CAFETERIA BOTTLE FILLER NW (LEFT)	2.09	122
W34A	KITCHEN OUTSIDE DRINKING WATER NE WALL (LEFT)	1.92	136
W35A	KITCHEN S WALL DW LEFT (BENEATH CLOCK)	1.72	134
W36A	KITCHEN S WALL DRINKING WATER (RIGHT)	0.620	94.8
W37A	KITCHEN ICE MACHINE	BRL	0.519
W38A	KITCHEN N WALL DIRNKING WATER (LEFT)	0.659	145
W39A	KITCHEN STEAMER (RIGHT)	0.858	154
W40A	KITCHEN NORTH WALL DRINKING WATER (LEFT)	0.889	105
W41A	KITCHEN N WALL MIDDLE DRINKING WATER	0.751	103
W42A	KITCHEN N WALL RIGHT DRINKING WATER	0.518	109

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MORROW HIGH SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W43A	KITCHEN STEAMER LEFT	0.746	88.3
W44A	KITCHEN S WALL DRINKING WATER (RIGHT)	0.907	142
W45A	KITCHEN (OUTSIDE) DRINKING WATER (RIGHT)	1.25	145
W46A	HALLWAY NEAR ROOM 36 DRINKING WATER FOUNTAIN (RIGHT)	BRL	150
W47A	HALLWAY NEAR ROOM 36 DRINKING WATER FOUNTAIN (LEFT)	BRL	156
W48A	HALLWAY NEAR ROOM 34A DRINKING WATER FOUNTAIN (RIGHT)	BRL	50.4
W49A	HALLWAY NEAR ROOM 34A DRINKING WATER FOUNTAIN (LEFT)	0.880	80.2
W50A	HALLWAY NEAR ROOM 54 DRINKING WATER FOUNTAIN (RIGHT)	BRL	76.3
W51A	HALLWAY NEAR ROOM 54 DRINKING WATER FOUNTAIN (LEFT)	BRL	89.7
W52A	CLASSROOM 57 DRINKING WATER FOUNTAIN	BRL	134
W53A	HALLWAY NEAR ROOM 51A DRINKING WATER FOUNTAIN	BRL	122
W54A	CLINIC NEAROOM 46 DRINKING WATER	2.20	126
W55A	CLASSROOM 55 DRINKING WATER	7.67	139

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MORROW HIGH SCHOOL
MORROW, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS ($\mu\text{g}/\text{L}$)	FIRST DRAW- COPPER SAMPLE RESULTS ($\mu\text{g}/\text{L}$)
W56A	HALLWAY NEAR ROOM 40 DRINKING WATER FOUNTAIN (RIGHT)	1.90	69.6
W57A	HALLWAY NEAR ROOM 40 DRINKING WATER FOUNTAIN (LEFT)	3.16	88.2
W58A	CLASSROOM 38 DRINKING WATER	2.19	121
W59A	COUNSELING OFFICE ROOM 39 DRINKING WATER	BRL	78.2
W60A	MEDIA CENTER DRINKING WATER	3.59	176
W61A	FIELDHOUSE DRINKING WATER	0.884	170

BRL – Below Reporting Limits

$\mu\text{g}/\text{L}$ – micrograms per liter

Results in **bold** indicate levels at or above the EPA PWS Action Level of 15 $\mu\text{g}/\text{L}$ for Lead in Drinking Water

*Properly flushed and resampled during the follow-up testing event.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the findings of the lead in drinking water sampling, GLE offers the following conclusions:

1. A total of 61 initial first draw water samples were collected for analysis of lead and copper content, comprised of one water sample from each Client-designated drinking water fountains and outlets used for drinking, cooking, and/or nursing outlets at Morrow High School. During the initial assessment, 46 first draw water samples were submitted to the laboratory for analysis.
2. Twenty-three (23) of the 61 initial first draw water samples analyzed for lead indicated detectable levels of lead. **None** of the 10 initial first draw water samples with detectable levels of lead were **greater** than the EPA PWS AL of 15 $\mu\text{g}/\text{L}$. Outlets identified in room 36 drinking water fountain and drinking water, room 53 drinking water fountain and room 57 drinking water fountain were not flushed/ inoperable during the initial sampling event. If determined to be used for drinking, cooking, and/or nursing, these outlets will need to be sampled.
3. 60 of the 61 first draw initial water samples indicated detectable levels of copper. **None** of the 61 initial first draw water samples with detectable levels of copper was **greater** than 1300 $\mu\text{g}/\text{L}$.

6.0 LIMITATIONS

The results of this assessment apply only to those specific Client-designated water outlets sampled. Per the EPA sampling guidelines, large variations in lead concentrations may be found among individual outlets in a facility because of difference in flow rates and/or building materials; therefore, this assessment is limited to the conditions encountered at the date and time of each sampling event.

APPENDIX A
Laboratory Analytical Results and
Chains of Custody

10/15/2018

GLE Associates
 Ms. Katrina Riley
 1100 Spring St, NW²Suite 820
 Suite 820
 Atlanta, GA, 30309

Ref: Analytical Testing
 Lab Report Number: 18-283-0243
 Client Project Description: CCPS: Morrow High School
 Project# 18000-18861

Dear Ms. Katrina Riley:

Waypoint Analytical, LLC. received sample(s) on 10/10/2018 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

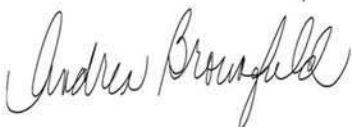
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Andrea R Brownfield
 Project manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	





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Sample Summary Table

Report Number: 18-283-0243

Client Project Description: CCPS: Morrow High School
Project# 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
98554	W1-A	Aqueous	10/08/2018 03:17	10/10/2018
98555	W2-A	Aqueous	10/08/2018 03:18	10/10/2018
98556	W3-A	Aqueous	10/08/2018 03:22	10/10/2018
98557	W4-A	Aqueous	10/08/2018 03:23	10/10/2018
98558	W5-A	Aqueous	10/08/2018 03:27	10/10/2018
98559	W6-A	Aqueous	10/08/2018 03:28	10/10/2018
98560	W7-A	Aqueous	10/08/2018 03:33	10/10/2018
98561	W8-A	Aqueous	10/08/2018 03:38	10/10/2018
98562	W9-A	Aqueous	10/08/2018 03:39	10/10/2018
98563	W10-A	Aqueous	10/08/2018 03:42	10/10/2018
98564	W11-A	Aqueous	10/08/2018 03:43	10/10/2018
98565	W12-A	Aqueous	10/08/2018 03:44	10/10/2018
98566	W13-A	Aqueous	10/08/2018 03:48	10/10/2018
98567	W14-A	Aqueous	10/08/2018 03:49	10/10/2018
98568	W15-A	Aqueous	10/08/2018 03:50	10/10/2018
98569	W16-A	Aqueous	10/08/2018 03:52	10/10/2018
98570	W17-A	Aqueous	10/08/2018 03:53	10/10/2018
98571	W18-A	Aqueous	10/08/2018 03:57	10/10/2018
98572	W19-A	Aqueous	10/08/2018 03:58	10/10/2018
98573	W20-A	Aqueous	10/08/2018 04:00	10/10/2018
98574	W21-A	Aqueous	10/08/2018 04:01	10/10/2018
98575	W22-A	Aqueous	10/08/2018 04:05	10/10/2018
98576	W23-A	Aqueous	10/08/2018 04:06	10/10/2018
98577	W24-A	Aqueous	10/08/2018 04:08	10/10/2018
98578	W25-A	Aqueous	10/08/2018 04:09	10/10/2018
98579	W26-A	Aqueous	10/08/2018 04:12	10/10/2018



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Sample Summary Table

Report Number: 18-283-0243

Client Project Description: CCPS: Morrow High School
Project# 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
98580	W27-A	Aqueous	10/08/2018 04:13	10/10/2018
98581	W28-A	Aqueous	10/08/2018 04:15	10/10/2018
98582	W29-A	Aqueous	10/08/2018 04:16	10/10/2018
98583	W30-A	Aqueous	10/08/2018 04:21	10/10/2018
98584	W31-A	Aqueous	10/08/2018 04:22	10/10/2018
98585	W32-A	Aqueous	10/08/2018 04:23	10/10/2018
98586	W33-A	Aqueous	10/08/2018 04:24	10/10/2018
98587	W34-A	Aqueous	10/08/2018 04:25	10/10/2018
98588	W35-A	Aqueous	10/08/2018 04:27	10/10/2018
98589	W36-A	Aqueous	10/08/2018 04:28	10/10/2018
98590	W37-A	Aqueous	10/08/2018 04:29	10/10/2018
98591	W38-A	Aqueous	10/08/2018 04:30	10/10/2018
98592	W39-A	Aqueous	10/08/2018 04:32	10/10/2018
98593	W40-A	Aqueous	10/08/2018 04:33	10/10/2018
98594	W41-A	Aqueous	10/08/2018 04:34	10/10/2018
98595	W42-A	Aqueous	10/08/2018 04:35	10/10/2018
98596	W43-A	Aqueous	10/08/2018 04:35	10/10/2018
98597	W44-A	Aqueous	10/08/2018 04:36	10/10/2018
98598	W45-A	Aqueous	10/08/2018 04:40	10/10/2018
98599	W46-A	Aqueous	10/08/2018 04:50	10/10/2018
98600	W47-A	Aqueous	10/08/2018 04:51	10/10/2018
98601	W48-A	Aqueous	10/08/2018 04:54	10/10/2018
98602	W49-A	Aqueous	10/08/2018 04:55	10/10/2018
98603	W50-A	Aqueous	10/08/2018 05:02	10/10/2018
98604	W51-A	Aqueous	10/08/2018 05:03	10/10/2018
98605	W52-A	Aqueous	10/08/2018 05:09	10/10/2018



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Sample Summary Table

Report Number: **18-283-0243**

Client Project Description: **CCPS: Morrow High School**
Project# 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
98606	W53-A	Aqueous	10/08/2018 05:20	10/10/2018
98607	W54-A	Aqueous	10/08/2018 05:26	10/10/2018
98608	W55-A	Aqueous	10/08/2018 05:29	10/10/2018
98609	W56-A	Aqueous	10/08/2018 05:32	10/10/2018
98610	W57-A	Aqueous	10/08/2018 05:32	10/10/2018
98611	W58-A	Aqueous	10/08/2018 05:33	10/10/2018
98612	W59-A	Aqueous	10/08/2018 05:34	10/10/2018
98613	W60-A	Aqueous	10/08/2018 05:43	10/10/2018
98614	W61-A	Aqueous	10/08/2018 05:53	10/10/2018

Summary of Detected Analytes					
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Project: CCPS: Morrow High School

Report Number: 18-283-0243

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W1-A	L 98554							
EPA-200.8	Copper			198	µg/L	0.500	10/12/2018 17:12	
EPA-200.8	Copper			198	µg/L	0.500	10/12/2018 17:12	
W2-A	L 98555							
EPA-200.8	Copper			136	µg/L	0.500	10/12/2018 17:14	
EPA-200.8	Copper			136	µg/L	0.500	10/12/2018 17:14	
W3-A	L 98556							
EPA-200.8	Copper			83.2	µg/L	0.500	10/12/2018 17:15	
EPA-200.8	Copper			83.2	µg/L	0.500	10/12/2018 17:15	
W4-A	L 98557							
EPA-200.8	Copper			54.2	µg/L	0.500	10/12/2018 17:16	
EPA-200.8	Copper			54.2	µg/L	0.500	10/12/2018 17:16	
W5-A	L 98558							
EPA-200.8	Copper			33.5	µg/L	0.500	10/12/2018 17:22	
EPA-200.8	Copper			33.5	µg/L	0.500	10/12/2018 17:22	
W6-A	L 98559							
EPA-200.8	Copper			51.5	µg/L	0.500	10/12/2018 17:23	
EPA-200.8	Copper			51.5	µg/L	0.500	10/12/2018 17:23	
W7-A	L 98560							
EPA-200.8	Copper			113	µg/L	0.500	10/12/2018 17:34	
EPA-200.8	Lead			1.79	µg/L	0.500	10/12/2018 17:34	
EPA-200.8	Copper			113	µg/L	0.500	10/12/2018 17:34	
EPA-200.8	Lead			1.79	µg/L	0.500	10/12/2018 17:34	
W8-A	L 98561							
EPA-200.8	Copper			128	µg/L	0.500	10/12/2018 17:35	
EPA-200.8	Copper			128	µg/L	0.500	10/12/2018 17:35	
W9-A	L 98562							
EPA-200.8	Copper			127	µg/L	0.500	10/12/2018 17:40	
EPA-200.8	Copper			127	µg/L	0.500	10/12/2018 17:40	
W10-A	L 98563							
EPA-200.8	Copper			51.2	µg/L	0.500	10/12/2018 17:42	
EPA-200.8	Copper			51.2	µg/L	0.500	10/12/2018 17:42	
W11-A	L 98564							
EPA-200.8	Copper			34.3	µg/L	0.500	10/12/2018 17:43	

Summary of Detected Analytes
Project: CCPS: Morrow High School

Report Number: 18-283-0243

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W11-A	L 98564					
EPA-200.8	Copper	34.3	µg/L	0.500	10/12/2018 17:43	
W12-A	L 98565					
EPA-200.8	Copper	130	µg/L	0.500	10/12/2018 17:44	
EPA-200.8	Lead	11.4	µg/L	0.500	10/12/2018 17:44	
EPA-200.8	Copper	130	µg/L	0.500	10/12/2018 17:44	
EPA-200.8	Lead	11.4	µg/L	0.500	10/12/2018 17:44	
W13-A	L 98566					
EPA-200.8	Copper	99.1	µg/L	0.500	10/12/2018 17:46	
EPA-200.8	Lead	10.6	µg/L	0.500	10/12/2018 17:46	
EPA-200.8	Copper	99.1	µg/L	0.500	10/12/2018 17:46	
EPA-200.8	Lead	10.6	µg/L	0.500	10/12/2018 17:46	
W14-A	L 98567					
EPA-200.8	Copper	128	µg/L	0.500	10/12/2018 17:47	
EPA-200.8	Copper	128	µg/L	0.500	10/12/2018 17:47	
W15-A	L 98568					
EPA-200.8	Copper	158	µg/L	0.500	10/12/2018 17:49	
EPA-200.8	Copper	158	µg/L	0.500	10/12/2018 17:49	
W16-A	L 98569					
EPA-200.8	Copper	113	µg/L	0.500	10/12/2018 17:50	
EPA-200.8	Lead	5.92	µg/L	0.500	10/12/2018 17:50	
EPA-200.8	Copper	113	µg/L	0.500	10/12/2018 17:50	
EPA-200.8	Lead	5.92	µg/L	0.500	10/12/2018 17:50	
W17-A	L 98570					
EPA-200.8	Copper	142	µg/L	0.500	10/12/2018 17:51	
EPA-200.8	Lead	2.66	µg/L	0.500	10/12/2018 17:51	
EPA-200.8	Copper	142	µg/L	0.500	10/12/2018 17:51	
EPA-200.8	Lead	2.66	µg/L	0.500	10/12/2018 17:51	
W18-A	L 98571					
EPA-200.8	Copper	52.3	µg/L	0.500	10/12/2018 17:53	
EPA-200.8	Copper	52.3	µg/L	0.500	10/12/2018 17:53	
W19-A	L 98572					
EPA-200.8	Copper	51.5	µg/L	0.500	10/12/2018 17:58	
EPA-200.8	Copper	51.5	µg/L	0.500	10/12/2018 17:58	

Summary of Detected Analytes
Project: CCPS: Morrow High School

Report Number: 18-283-0243

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W20-A	L 98573					
EPA-200.8	Copper	49.2	µg/L	0.500	10/12/2018 17:59	
EPA-200.8	Copper	49.2	µg/L	0.500	10/12/2018 17:59	
W21-A	L 98574					
EPA-200.8	Copper	120	µg/L	0.500	10/12/2018 18:01	
EPA-200.8	Copper	120	µg/L	0.500	10/12/2018 18:01	
W22-A	L 98575					
EPA-200.8	Copper	126	µg/L	0.500	10/12/2018 18:02	
EPA-200.8	Copper	126	µg/L	0.500	10/12/2018 18:02	
W23-A	L 98576					
EPA-200.8	Copper	116	µg/L	0.500	10/12/2018 18:03	
EPA-200.8	Copper	116	µg/L	0.500	10/12/2018 18:03	
W24-A	L 98577					
EPA-200.8	Copper	140	µg/L	0.500	10/12/2018 18:05	
EPA-200.8	Copper	140	µg/L	0.500	10/12/2018 18:05	
W25-A	L 98578					
EPA-200.8	Copper	157	µg/L	0.500	10/12/2018 18:06	
EPA-200.8	Copper	157	µg/L	0.500	10/12/2018 18:06	
W26-A	L 98579					
EPA-200.8	Copper	64.2	µg/L	0.500	10/12/2018 18:07	
EPA-200.8	Copper	64.2	µg/L	0.500	10/12/2018 18:07	
W27-A	L 98580					
EPA-200.8	Copper	53.8	µg/L	0.500	10/12/2018 18:22	
EPA-200.8	Copper	53.8	µg/L	0.500	10/12/2018 18:22	
W28-A	L 98581					
EPA-200.8	Copper	54.4	µg/L	0.500	10/12/2018 18:24	
EPA-200.8	Copper	54.4	µg/L	0.500	10/12/2018 18:24	
W30-A	L 98583					
EPA-200.8	Copper	56.9	µg/L	0.500	10/12/2018 18:26	
EPA-200.8	Copper	56.9	µg/L	0.500	10/12/2018 18:26	
W31-A	L 98584					
EPA-200.8	Copper	79.3	µg/L	0.500	10/12/2018 18:28	
EPA-200.8	Copper	79.3	µg/L	0.500	10/12/2018 18:28	

Summary of Detected Analytes
Project: CCPS: Morrow High School

Report Number: 18-283-0243

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W32-A	L 98585					
EPA-200.8	Copper	104	µg/L	0.500	10/12/2018 18:29	
EPA-200.8	Lead	1.81	µg/L	0.500	10/12/2018 18:29	
EPA-200.8	Copper	104	µg/L	0.500	10/12/2018 18:29	
EPA-200.8	Lead	1.81	µg/L	0.500	10/12/2018 18:29	
W33-A	L 98586					
EPA-200.8	Copper	122	µg/L	0.500	10/12/2018 18:34	
EPA-200.8	Lead	2.09	µg/L	0.500	10/12/2018 18:34	
EPA-200.8	Copper	122	µg/L	0.500	10/12/2018 18:34	
EPA-200.8	Lead	2.09	µg/L	0.500	10/12/2018 18:34	
W34-A	L 98587					
EPA-200.8	Copper	136	µg/L	0.500	10/12/2018 18:36	
EPA-200.8	Lead	1.92	µg/L	0.500	10/12/2018 18:36	
EPA-200.8	Copper	136	µg/L	0.500	10/12/2018 18:36	
EPA-200.8	Lead	1.92	µg/L	0.500	10/12/2018 18:36	
W35-A	L 98588					
EPA-200.8	Copper	134	µg/L	0.500	10/12/2018 18:37	
EPA-200.8	Lead	1.72	µg/L	0.500	10/12/2018 18:37	
EPA-200.8	Copper	134	µg/L	0.500	10/12/2018 18:37	
EPA-200.8	Lead	1.72	µg/L	0.500	10/12/2018 18:37	
W36-A	L 98589					
EPA-200.8	Copper	94.8	µg/L	0.500	10/12/2018 18:38	
EPA-200.8	Lead	0.620	µg/L	0.500	10/12/2018 18:38	
EPA-200.8	Copper	94.8	µg/L	0.500	10/12/2018 18:38	
EPA-200.8	Lead	0.620	µg/L	0.500	10/12/2018 18:38	
W37-A	L 98590					
EPA-200.8	Copper	0.519	µg/L	0.500	10/12/2018 18:40	
EPA-200.8	Copper	0.519	µg/L	0.500	10/12/2018 18:40	
W38-A	L 98591					
EPA-200.8	Copper	145	µg/L	0.500	10/12/2018 18:41	
EPA-200.8	Lead	0.659	µg/L	0.500	10/12/2018 18:41	
EPA-200.8	Copper	145	µg/L	0.500	10/12/2018 18:41	
EPA-200.8	Lead	0.659	µg/L	0.500	10/12/2018 18:41	
W39-A	L 98592					
EPA-200.8	Copper	154	µg/L	0.500	10/12/2018 18:42	
EPA-200.8	Lead	0.858	µg/L	0.500	10/12/2018 18:42	

Summary of Detected Analytes						
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Project: CCPS: Morrow High School

Report Number: 18-283-0243

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W39-A	L 98592							
EPA-200.8	Copper			154	µg/L	0.500	10/12/2018 18:42	
EPA-200.8	Lead			0.858	µg/L	0.500	10/12/2018 18:42	
W40-A	L 98593							
EPA-200.8	Copper			105	µg/L	0.500	10/12/2018 18:44	
EPA-200.8	Lead			0.889	µg/L	0.500	10/12/2018 18:44	
EPA-200.8	Copper			105	µg/L	0.500	10/12/2018 18:44	
EPA-200.8	Lead			0.889	µg/L	0.500	10/12/2018 18:44	
W41-A	L 98594							
EPA-200.8	Copper			103	µg/L	0.500	10/12/2018 18:45	
EPA-200.8	Lead			0.751	µg/L	0.500	10/12/2018 18:45	
EPA-200.8	Copper			103	µg/L	0.500	10/12/2018 18:45	
EPA-200.8	Lead			0.751	µg/L	0.500	10/12/2018 18:45	
W42-A	L 98595							
EPA-200.8	Copper			109	µg/L	0.500	10/12/2018 18:46	
EPA-200.8	Lead			0.518	µg/L	0.500	10/12/2018 18:46	
EPA-200.8	Copper			109	µg/L	0.500	10/12/2018 18:46	
EPA-200.8	Lead			0.518	µg/L	0.500	10/12/2018 18:46	
W43-A	L 98596							
EPA-200.8	Copper			88.3	µg/L	0.500	10/12/2018 18:52	
EPA-200.8	Lead			0.746	µg/L	0.500	10/12/2018 18:52	
EPA-200.8	Copper			88.3	µg/L	0.500	10/12/2018 18:52	
EPA-200.8	Lead			0.746	µg/L	0.500	10/12/2018 18:52	
W44-A	L 98597							
EPA-200.8	Copper			142	µg/L	0.500	10/12/2018 18:53	
EPA-200.8	Lead			0.907	µg/L	0.500	10/12/2018 18:53	
EPA-200.8	Copper			142	µg/L	0.500	10/12/2018 18:53	
EPA-200.8	Lead			0.907	µg/L	0.500	10/12/2018 18:53	
W45-A	L 98598							
EPA-200.8	Copper			145	µg/L	0.500	10/12/2018 18:54	
EPA-200.8	Lead			1.25	µg/L	0.500	10/12/2018 18:54	
EPA-200.8	Copper			145	µg/L	0.500	10/12/2018 18:54	
EPA-200.8	Lead			1.25	µg/L	0.500	10/12/2018 18:54	
W46-A	L 98599							
EPA-200.8	Copper			150	µg/L	0.500	10/12/2018 18:56	

Summary of Detected Analytes
Project: CCPS: Morrow High School

Report Number: 18-283-0243

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W46-A	L 98599					
EPA-200.8	Copper	150	µg/L	0.500	10/12/2018 18:56	
W47-A	L 98600					
EPA-200.8	Copper	156	µg/L	0.500	10/12/2018 19:11	
EPA-200.8	Copper	156	µg/L	0.500	10/12/2018 19:11	
W48-A	L 98601					
EPA-200.8	Copper	50.4	µg/L	0.500	10/12/2018 19:12	
EPA-200.8	Copper	50.4	µg/L	0.500	10/12/2018 19:12	
W49-A	L 98602					
EPA-200.8	Copper	80.2	µg/L	0.500	10/12/2018 19:13	
EPA-200.8	Lead	0.880	µg/L	0.500	10/12/2018 19:13	
EPA-200.8	Copper	80.2	µg/L	0.500	10/12/2018 19:13	
EPA-200.8	Lead	0.880	µg/L	0.500	10/12/2018 19:13	
W50-A	L 98603					
EPA-200.8	Copper	76.3	µg/L	0.500	10/12/2018 19:15	
EPA-200.8	Copper	76.3	µg/L	0.500	10/12/2018 19:15	
W51-A	L 98604					
EPA-200.8	Copper	89.7	µg/L	0.500	10/12/2018 19:16	
EPA-200.8	Copper	89.7	µg/L	0.500	10/12/2018 19:16	
W52-A	L 98605					
EPA-200.8	Copper	134	µg/L	0.500	10/12/2018 19:17	
EPA-200.8	Copper	134	µg/L	0.500	10/12/2018 19:17	
W53-A	L 98606					
EPA-200.8	Copper	122	µg/L	0.500	10/12/2018 19:19	
EPA-200.8	Copper	122	µg/L	0.500	10/12/2018 19:19	
W54-A	L 98607					
EPA-200.8	Copper	126	µg/L	0.500	10/12/2018 19:20	
EPA-200.8	Lead	2.20	µg/L	0.500	10/12/2018 19:20	
EPA-200.8	Copper	126	µg/L	0.500	10/12/2018 19:20	
EPA-200.8	Lead	2.20	µg/L	0.500	10/12/2018 19:20	
W55-A	L 98608					
EPA-200.8	Copper	139	µg/L	0.500	10/12/2018 19:22	
EPA-200.8	Lead	7.67	µg/L	0.500	10/12/2018 19:22	
EPA-200.8	Copper	139	µg/L	0.500	10/12/2018 19:22	

Summary of Detected Analytes
Project: CCPS: Morrow High School

Report Number: 18-283-0243

Client Sample ID	Lab Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W55-A	L 98608					
EPA-200.8	Lead	7.67	µg/L	0.500	10/12/2018 19:22	
W56-A	L 98609					
EPA-200.8	Copper	69.6	µg/L	0.500	10/12/2018 19:23	
EPA-200.8	Lead	1.90	µg/L	0.500	10/12/2018 19:23	
EPA-200.8	Copper	69.6	µg/L	0.500	10/12/2018 19:23	
EPA-200.8	Lead	1.90	µg/L	0.500	10/12/2018 19:23	
W57-A	L 98610					
EPA-200.8	Copper	88.2	µg/L	0.500	10/12/2018 19:28	
EPA-200.8	Lead	3.16	µg/L	0.500	10/12/2018 19:28	
EPA-200.8	Copper	88.2	µg/L	0.500	10/12/2018 19:28	
EPA-200.8	Lead	3.16	µg/L	0.500	10/12/2018 19:28	
W58-A	L 98611					
EPA-200.8	Copper	121	µg/L	0.500	10/12/2018 19:30	
EPA-200.8	Lead	2.19	µg/L	0.500	10/12/2018 19:30	
EPA-200.8	Copper	121	µg/L	0.500	10/12/2018 19:30	
EPA-200.8	Lead	2.19	µg/L	0.500	10/12/2018 19:30	
W59-A	L 98612					
EPA-200.8	Copper	78.2	µg/L	0.500	10/12/2018 19:31	
EPA-200.8	Copper	78.2	µg/L	0.500	10/12/2018 19:31	
W60-A	L 98613					
EPA-200.8	Copper	176	µg/L	0.500	10/12/2018 19:32	
EPA-200.8	Lead	3.59	µg/L	0.500	10/12/2018 19:32	
EPA-200.8	Copper	176	µg/L	0.500	10/12/2018 19:32	
EPA-200.8	Lead	3.59	µg/L	0.500	10/12/2018 19:32	
W61-A	L 98614					
EPA-200.8	Copper	170	µg/L	0.500	10/12/2018 19:34	
EPA-200.8	Lead	0.884	µg/L	0.500	10/12/2018 19:34	
EPA-200.8	Copper	170	µg/L	0.500	10/12/2018 19:34	
EPA-200.8	Lead	0.884	µg/L	0.500	10/12/2018 19:34	



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Project CCPS: Morrow High School
Information : Project# 18000-18861

Report Date : 10/15/2018
Received : 10/10/2018

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98554**

Matrix: **Aqueous**

Sample ID : **W1-A**

Sampled: **10/8/2018 3:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	198	µg/L	0.500	1	10/12/18 17:12	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:12	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98555**

Matrix: **Aqueous**

Sample ID : **W2-A**

Sampled: **10/8/2018 3:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	136	µg/L	0.500	1	10/12/18 17:14	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:14	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98556**

Matrix: **Aqueous**

Sample ID : **W3-A**

Sampled: **10/8/2018 3:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	83.2	µg/L	0.500	1	10/12/18 17:15	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:15	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Information : Project# 18000-18861

Report Date : 10/15/2018
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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98557**

Matrix: **Aqueous**

Sample ID : **W4-A**

Sampled: **10/8/2018 3:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	54.2	µg/L	0.500	1	10/12/18 17:16	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:16	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018

Received : 10/10/2018

Project CCPS: Morrow High School
Information : Project# 18000-18861

A handwritten signature in black ink, appearing to read "Andrea Brownfield".

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98558**

Matrix: **Aqueous**

Sample ID : **W5-A**

Sampled: **10/8/2018 3:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	33.5	µg/L	0.500	1	10/12/18 17:22	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:22	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project CCPS: Morrow High School
Information : Project# 18000-18861

Report Date : 10/15/2018
Received : 10/10/2018

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98559**

Matrix: **Aqueous**

Sample ID : **W6-A**

Sampled: **10/8/2018 3:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	51.5	µg/L	0.500	1	10/12/18 17:23	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:23	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project CCPS: Morrow High School
Information : Project# 18000-18861

Report Date : 10/15/2018

Received : 10/10/2018

Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98560**

Matrix: **Aqueous**

Sample ID : **W7-A**

Sampled: **10/8/2018 3:33**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	113	µg/L	0.500	1	10/12/18 17:34	BKN	EPA-200.8
Lead	1.79	µg/L	0.500	1	10/12/18 17:34	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project CCPS: Morrow High School
Information : Project# 18000-18861

Report Date : 10/15/2018

Received : 10/10/2018

Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98561**

Matrix: **Aqueous**

Sample ID : **W8-A**

Sampled: **10/8/2018 3:38**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	128	µg/L	0.500	1	10/12/18 17:35	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:35	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project CCPS: Morrow High School
Information : Project# 18000-18861

Report Date : 10/15/2018
Received : 10/10/2018

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98562**

Matrix: **Aqueous**

Sample ID : **W9-A**

Sampled: **10/8/2018 3:39**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	127	µg/L	0.500	1	10/12/18 17:40	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:40	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project CCPS: Morrow High School
Information : Project# 18000-18861

Report Date : 10/15/2018

Received : 10/10/2018

Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98563**

Matrix: **Aqueous**

Sample ID : **W10-A**

Sampled: **10/8/2018 3:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	51.2	µg/L	0.500	1	10/12/18 17:42	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:42	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

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Information : Project# 18000-18861

Report Date : 10/15/2018

Received : 10/10/2018

Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98564**

Matrix: **Aqueous**

Sample ID : **W11-A**

Sampled: **10/8/2018 3:43**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	34.3	µg/L	0.500	1	10/12/18 17:43	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:43	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

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Information : Project# 18000-18861

Report Date : 10/15/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98565**

Matrix: **Aqueous**

Sample ID : **W12-A**

Sampled: **10/8/2018 3:44**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	130	µg/L	0.500	1	10/12/18 17:44	BKN	EPA-200.8
Lead	11.4	µg/L	0.500	1	10/12/18 17:44	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

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Report Date : 10/15/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98566**

Matrix: **Aqueous**

Sample ID : **W13-A**

Sampled: **10/8/2018 3:48**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	99.1	µg/L	0.500	1	10/12/18 17:46	BKN	EPA-200.8
Lead	10.6	µg/L	0.500	1	10/12/18 17:46	BKN	EPA-200.8

Qualifiers/
Definitions

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Dilution Factor

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Andrea R. Brownfield
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98567**

Matrix: **Aqueous**

Sample ID : **W14-A**

Sampled: **10/8/2018 3:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	128	µg/L	0.500	1	10/12/18 17:47	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:47	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

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Report Date : 10/15/2018
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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98568**

Matrix: **Aqueous**

Sample ID : **W15-A**

Sampled: **10/8/2018 3:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	158	µg/L	0.500	1	10/12/18 17:49	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:49	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

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Report Date : 10/15/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98569**

Matrix: **Aqueous**

Sample ID : **W16-A**

Sampled: **10/8/2018 3:52**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	113	µg/L	0.500	1	10/12/18 17:50	BKN	EPA-200.8
Lead	5.92	µg/L	0.500	1	10/12/18 17:50	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

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Report Date : 10/15/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98570**

Matrix: **Aqueous**

Sample ID : **W17-A**

Sampled: **10/8/2018 3:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	142	µg/L	0.500	1	10/12/18 17:51	BKN	EPA-200.8
Lead	2.66	µg/L	0.500	1	10/12/18 17:51	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98571**

Matrix: **Aqueous**

Sample ID : **W18-A**

Sampled: **10/8/2018 3:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	52.3	µg/L	0.500	1	10/12/18 17:53	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:53	BKN	EPA-200.8

Qualifiers/
Definitions

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Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98572**

Matrix: **Aqueous**

Sample ID : **W19-A**

Sampled: **10/8/2018 3:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	51.5	µg/L	0.500	1	10/12/18 17:58	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:58	BKN	EPA-200.8

**Qualifiers/
Definitions**

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Dilution Factor

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98573**

Matrix: **Aqueous**

Sample ID : **W20-A**

Sampled: **10/8/2018 4:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	49.2	µg/L	0.500	1	10/12/18 17:59	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 17:59	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98574**

Matrix: **Aqueous**

Sample ID : **W21-A**

Sampled: **10/8/2018 4:01**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	120	µg/L	0.500	1	10/12/18 18:01	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:01	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

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REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98575**

Matrix: **Aqueous**

Sample ID : **W22-A**

Sampled: **10/8/2018 4:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	126	µg/L	0.500	1	10/12/18 18:02	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:02	BKN	EPA-200.8

Qualifiers/
Definitions

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REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98576**

Matrix: **Aqueous**

Sample ID : **W23-A**

Sampled: **10/8/2018 4:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	116	µg/L	0.500	1	10/12/18 18:03	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:03	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98577**

Matrix: **Aqueous**

Sample ID : **W24-A**

Sampled: **10/8/2018 4:08**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	140	µg/L	0.500	1	10/12/18 18:05	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:05	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98578**

Matrix: **Aqueous**

Sample ID : **W25-A**

Sampled: **10/8/2018 4:09**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	157	µg/L	0.500	1	10/12/18 18:06	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:06	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

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Andrea R. Brownfield
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98579**

Matrix: **Aqueous**

Sample ID : **W26-A**

Sampled: **10/8/2018 4:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	64.2	µg/L	0.500	1	10/12/18 18:07	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:07	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98580**

Matrix: **Aqueous**

Sample ID : **W27-A**

Sampled: **10/8/2018 4:13**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	53.8	µg/L	0.500	1	10/12/18 18:22	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:22	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

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Andrea R. Brownfield
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98581**

Matrix: **Aqueous**

Sample ID : **W28-A**

Sampled: **10/8/2018 4:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	54.4	µg/L	0.500	1	10/12/18 18:24	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:24	BKN	EPA-200.8

**Qualifiers/
Definitions** DF Dilution Factor MQL Method Quantitation Limit



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Andrea R. Brownfield
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98582**

Matrix: **Aqueous**

Sample ID : **W29-A**

Sampled: **10/8/2018 4:16**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<0.500	µg/L	0.500	1	10/12/18 18:25	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:25	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

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MQL

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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98583**

Matrix: **Aqueous**

Sample ID : **W30-A**

Sampled: **10/8/2018 4:21**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	56.9	µg/L	0.500	1	10/12/18 18:26	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:26	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

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MQL

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Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98584**

Matrix: **Aqueous**

Sample ID : **W31-A**

Sampled: **10/8/2018 4:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	79.3	µg/L	0.500	1	10/12/18 18:28	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:28	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

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REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98585**

Matrix: **Aqueous**

Sample ID : **W32-A**

Sampled: **10/8/2018 4:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	104	µg/L	0.500	1	10/12/18 18:29	BKN	EPA-200.8
Lead	1.81	µg/L	0.500	1	10/12/18 18:29	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018

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Report Number : **18-283-0243**

REPORT OF ANALYSIS


Andrea R. Brownfield
Project manager

Lab No : **98586**

Matrix: **Aqueous**

Sample ID : **W33-A**

Sampled: **10/8/2018 4:24**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	122	µg/L	0.500	1	10/12/18 18:34	BKN	EPA-200.8
Lead	2.09	µg/L	0.500	1	10/12/18 18:34	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98587**

Matrix: **Aqueous**

Sample ID : **W34-A**

Sampled: **10/8/2018 4:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	136	µg/L	0.500	1	10/12/18 18:36	BKN	EPA-200.8
Lead	1.92	µg/L	0.500	1	10/12/18 18:36	BKN	EPA-200.8

Qualifiers/
Definitions

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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98588**

Matrix: **Aqueous**

Sample ID : **W35-A**

Sampled: **10/8/2018 4:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	134	µg/L	0.500	1	10/12/18 18:37	BKN	EPA-200.8
Lead	1.72	µg/L	0.500	1	10/12/18 18:37	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project CCPS: Morrow High School
Information : Project# 18000-18861

Report Date : 10/15/2018
Received : 10/10/2018

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98589**

Matrix: **Aqueous**

Sample ID : **W36-A**

Sampled: **10/8/2018 4:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	94.8	µg/L	0.500	1	10/12/18 18:38	BKN	EPA-200.8
Lead	0.620	µg/L	0.500	1	10/12/18 18:38	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018

Received : 10/10/2018

Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98590**

Matrix: **Aqueous**

Sample ID : **W37-A**

Sampled: **10/8/2018 4:29**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	0.519	µg/L	0.500	1	10/12/18 18:40	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:40	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Information : Project# 18000-18861

Report Date : 10/15/2018
Received : 10/10/2018

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98591**

Matrix: **Aqueous**

Sample ID : **W38-A**

Sampled: **10/8/2018 4:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	145	µg/L	0.500	1	10/12/18 18:41	BKN	EPA-200.8
Lead	0.659	µg/L	0.500	1	10/12/18 18:41	BKN	EPA-200.8

Qualifiers/
Definitions

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Dilution Factor

MQL

Method Quantitation Limit



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Information : Project# 18000-18861

Report Date : 10/15/2018
Received : 10/10/2018

Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98592**

Matrix: **Aqueous**

Sample ID : **W39-A**

Sampled: **10/8/2018 4:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	154	µg/L	0.500	1	10/12/18 18:42	BKN	EPA-200.8
Lead	0.858	µg/L	0.500	1	10/12/18 18:42	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98593**

Matrix: **Aqueous**

Sample ID : **W40-A**

Sampled: **10/8/2018 4:33**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	105	µg/L	0.500	1	10/12/18 18:44	BKN	EPA-200.8
Lead	0.889	µg/L	0.500	1	10/12/18 18:44	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98594**

Matrix: **Aqueous**

Sample ID : **W41-A**

Sampled: **10/8/2018 4:34**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	103	µg/L	0.500	1	10/12/18 18:45	BKN	EPA-200.8
Lead	0.751	µg/L	0.500	1	10/12/18 18:45	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98595**

Matrix: **Aqueous**

Sample ID : **W42-A**

Sampled: **10/8/2018 4:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	109	µg/L	0.500	1	10/12/18 18:46	BKN	EPA-200.8
Lead	0.518	µg/L	0.500	1	10/12/18 18:46	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018

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Project CCPS: Morrow High School
Information : Project# 18000-18861

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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98596**

Matrix: **Aqueous**

Sample ID : **W43-A**

Sampled: **10/8/2018 4:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	88.3	µg/L	0.500	1	10/12/18 18:52	BKN	EPA-200.8
Lead	0.746	µg/L	0.500	1	10/12/18 18:52	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98597**

Matrix: **Aqueous**

Sample ID : **W44-A**

Sampled: **10/8/2018 4:36**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	142	µg/L	0.500	1	10/12/18 18:53	BKN	EPA-200.8
Lead	0.907	µg/L	0.500	1	10/12/18 18:53	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98598**

Matrix: **Aqueous**

Sample ID : **W45-A**

Sampled: **10/8/2018 4:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	145	µg/L	0.500	1	10/12/18 18:54	BKN	EPA-200.8
Lead	1.25	µg/L	0.500	1	10/12/18 18:54	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98599**

Matrix: **Aqueous**

Sample ID : **W46-A**

Sampled: **10/8/2018 4:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	150	µg/L	0.500	1	10/12/18 18:56	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 18:56	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98600**

Matrix: **Aqueous**

Sample ID : **W47-A**

Sampled: **10/8/2018 4:51**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	156	µg/L	0.500	1	10/12/18 19:11	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 19:11	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98601**

Matrix: **Aqueous**

Sample ID : **W48-A**

Sampled: **10/8/2018 4:54**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	50.4	µg/L	0.500	1	10/12/18 19:12	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 19:12	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98602**

Matrix: **Aqueous**

Sample ID : **W49-A**

Sampled: **10/8/2018 4:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	80.2	µg/L	0.500	1	10/12/18 19:13	BKN	EPA-200.8
Lead	0.880	µg/L	0.500	1	10/12/18 19:13	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98603**

Matrix: **Aqueous**

Sample ID : **W50-A**

Sampled: **10/8/2018 5:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	76.3	µg/L	0.500	1	10/12/18 19:15	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 19:15	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018

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Project CCPS: Morrow High School
Information : Project# 18000-18861

A handwritten signature in black ink, appearing to read "Andrea Brownfield".

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98604**

Matrix: **Aqueous**

Sample ID : **W51-A**

Sampled: **10/8/2018 5:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	89.7	µg/L	0.500	1	10/12/18 19:16	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 19:16	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98605**

Matrix: **Aqueous**

Sample ID : **W52-A**

Sampled: **10/8/2018 5:09**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	134	µg/L	0.500	1	10/12/18 19:17	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 19:17	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

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Report Date : 10/15/2018
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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98606**

Matrix: **Aqueous**

Sample ID : **W53-A**

Sampled: **10/8/2018 5:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	122	µg/L	0.500	1	10/12/18 19:19	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 19:19	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98607**

Matrix: **Aqueous**

Sample ID : **W54-A**

Sampled: **10/8/2018 5:26**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	126	µg/L	0.500	1	10/12/18 19:20	BKN	EPA-200.8
Lead	2.20	µg/L	0.500	1	10/12/18 19:20	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98608**

Matrix: **Aqueous**

Sample ID : **W55-A**

Sampled: **10/8/2018 5:29**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	139	µg/L	0.500	1	10/12/18 19:22	BKN	EPA-200.8
Lead	7.67	µg/L	0.500	1	10/12/18 19:22	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98609**

Matrix: **Aqueous**

Sample ID : **W56-A**

Sampled: **10/8/2018 5:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	69.6	µg/L	0.500	1	10/12/18 19:23	BKN	EPA-200.8
Lead	1.90	µg/L	0.500	1	10/12/18 19:23	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98610**

Matrix: **Aqueous**

Sample ID : **W57-A**

Sampled: **10/8/2018 5:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	88.2	µg/L	0.500	1	10/12/18 19:28	BKN	EPA-200.8
Lead	3.16	µg/L	0.500	1	10/12/18 19:28	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98611**

Matrix: **Aqueous**

Sample ID : **W58-A**

Sampled: **10/8/2018 5:33**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	121	µg/L	0.500	1	10/12/18 19:30	BKN	EPA-200.8
Lead	2.19	µg/L	0.500	1	10/12/18 19:30	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98612**

Matrix: **Aqueous**

Sample ID : **W59-A**

Sampled: **10/8/2018 5:34**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	78.2	µg/L	0.500	1	10/12/18 19:31	BKN	EPA-200.8
Lead	<0.500	µg/L	0.500	1	10/12/18 19:31	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 10/15/2018

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Andrea R. Brownfield
Project manager

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Lab No : **98613**

Matrix: **Aqueous**

Sample ID : **W60-A**

Sampled: **10/8/2018 5:43**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	176	µg/L	0.500	1	10/12/18 19:32	BKN	EPA-200.8
Lead	3.59	µg/L	0.500	1	10/12/18 19:32	BKN	EPA-200.8

**Qualifiers/
Definitions**

DF

Dilution Factor

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Report Date : 10/15/2018
Received : 10/10/2018

Report Number : **18-283-0243**

REPORT OF ANALYSIS

Andrea R. Brownfield
Project manager

Lab No : **98614**

Matrix: **Aqueous**

Sample ID : **W61-A**

Sampled: **10/8/2018 5:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	170	µg/L	0.500	1	10/12/18 19:34	BKN	EPA-200.8
Lead	0.884	µg/L	0.500	1	10/12/18 19:34	BKN	EPA-200.8

Qualifiers/
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Morrow High School
Report No: 18-283-0243

QC Prep:	L403316	QC Analytical Batch(es):	L403975
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank LRB-L403316 Matrix: AQU

Associated Lab Samples: 98554, 98555, 98556, 98557, 98558, 98559

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	10/12/18 16:42
Lead	µg/L	< 0.500	0.500	10/12/18 16:42

Laboratory Control Sample LCS-L403316

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	101	98.9	97.9	85-115
Lead	µg/L	101	102	101	85-115

Matrix Spike & Matrix Spike Duplicate L 98559-MS-L403316 L 98559-MSD-L403316

Parameter	Units	MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Copper	µg/L	51.5	50.3	50.3	96.2	99.4	88.9	95.3	70-130	3.2	20.0
Lead	µg/L	< 0.503	50.3	50.3	50.1	51.1	99.6	102	70-130	1.9	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Morrow High School
Report No: 18-283-0243

QC Prep:	L403317	QC Analytical Batch(es):	L403975
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L403317	Matrix: AQU
Associated Lab Samples:	98560, 98561, 98562, 98563, 98564, 98565, 98566, 98567, 98568, 98569, 98570, 98571, 98572, 98573, 98574, 98575, 98576, 98577, 98578, 98579	

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	10/12/18 17:31
Lead	µg/L	< 0.500	0.500	10/12/18 17:31

Laboratory Control Sample	LCS-L403317
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Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	101	98.8	97.8	85-115
Lead	µg/L	101	100	99.0	85-115

Matrix Spike & Matrix Spike Duplicate	L 98579-MS-L403317	L 98579-MSD-L403317
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Parameter	Units	MS Spike Result	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Copper	µg/L	64.2	50.3	50.3	108	107	87.1	85.1	70-130	0.9
Lead	µg/L	< 0.503	50.3	50.3	49.8	49.6	99.1	98.7	70-130	0.4

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Morrow High School
Report No: 18-283-0243

QC Prep:	L403318	QC Analytical Batch(es):	L403975
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L403318	Matrix: AQU
Associated Lab Samples:	98580, 98581, 98582, 98583, 98584, 98585, 98586, 98587, 98588, 98589, 98590, 98591, 98592, 98593, 98594, 98595, 98596, 98597, 98598, 98599	

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	10/12/18 18:20
Lead	µg/L	< 0.500	0.500	10/12/18 18:20

Laboratory Control Sample	LCS-L403318
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Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	101	95.6	94.6	85-115
Lead	µg/L	101	98.9	97.9	85-115

Matrix Spike & Matrix Spike Duplicate	L 98599-MS-L403318	L 98599-MSD-L403318
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Parameter	Units	MS Spike Result	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD	
Copper	µg/L	150	50.3	50.3	194	193	87.5	85.5	70-130	0.5	20.0
Lead	µg/L	< 0.503	50.3	50.3	49.3	50.0	98.1	99.5	70-130	1.4	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Morrow High School
Report No: 18-283-0243

QC Prep:	L403319	QC Analytical Batch(es):	L403975
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L403319	Matrix: AQU
Associated Lab Samples:	98600, 98601, 98602, 98603, 98604, 98605, 98606, 98607, 98608, 98609, 98610, 98611, 98612, 98613, 98614	

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	10/12/18 19:04
Lead	µg/L	< 0.500	0.500	10/12/18 19:04

Laboratory Control Sample	LCS-L403319
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Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	49.2	97.9	85-115
Lead	µg/L	50.3	49.1	97.7	85-115

Matrix Spike & Matrix Spike Duplicate	L 98614-MS-L403319	L 98614-MSD-L403319
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Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Copper	µg/L	170	50.3	50.3	214	212	87.5	83.5	70-130	0.9	20.0
Lead	µg/L	0.884	50.3	50.3	50.5	50.4	98.7	98.5	70-130	0.1	20.0

Cooler Receipt Form

Customer Number: **23169**

Customer Name: **GLE Associates**

Report Number: **18-283-0243**

Shipping Method

<input checked="" type="radio"/> Fed Ex	<input type="radio"/> US Postal	<input type="radio"/> Lab	<input type="radio"/> Other :	<input type="text"/>
<input type="radio"/> UPS	<input type="radio"/> Client	<input type="radio"/> Courier	Thermometer ID:	N/A

Shipping container/cooler uncompromised? Yes No

Number of coolers received

Custody seals intact on shipping container/cooler? Yes No Not Required

Custody seals intact on sample bottles? Yes No Not Required

Chain of Custody (COC) present? Yes No

COC agrees with sample label(s)? Yes No

COC properly completed Yes No

Samples in proper containers? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test(s)? Yes No

All samples received within holding time? Yes No

Cooler temperature in compliance? Yes No

Cooler/Samples arrived at the laboratory on ice.
 Samples were considered acceptable as cooling process had begun.

Water - Sample containers properly preserved Yes No N/A

Water - VOA vials free of headspace Yes No N/A

Trip Blanks received with VOAs Yes No N/A

Soil VOA method 5035 – compliance criteria met Yes No N/A

High concentration container (48 hr) Low concentration EnCore samplers (48 hr)

High concentration pre-weighed (methanol -14 d) Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included? Yes No

Comments:

For Laboratory Use Only

Client Name/Address <i>Mr. Sessions</i>	Project Description <i>Morrow</i>	Client Project Manager/Contact <i>Kathina Rifey</i>		Billing Information 1100 Spring Street Atlanta GA		Method of Shipment <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> Courier	For Laboratory Use Only	
		Project/Site Location (City/State) <i>Morrow</i>	Date Results Needed	RUSH – Additional charges apply	Special Detection Limit(s)		Date	Time
Project Number <i>1000-18861</i>	Project Manager Phone # <i>464-373-3844</i>	Project Manager Email <i>kri@grossprints.com</i>	Purchase Order Number <i>200.8CLB</i>	Number of Containers <i>2</i>	Matrix (Refer to Key) <i>HNO3</i>	Required Analysis / Preservative <i>Dull HNO3 H2O</i>	Comments/Notes <i>Admin in break room DIN</i>	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400				(Grab or Composite) <i>C8.00</i>			<i>Admin near office DIN</i>	
Date <i>03/18</i>	Time <i>10:11:18</i>	Sample Identification <i>W1-A</i>					<i>Out Admin area DIN</i>	
			<i>W2-A</i>				<i>Storage closet DIN</i>	
			<i>W3-A</i>				<i>Admin area DIN</i>	
			<i>W4-A</i>				<i>Outside storage, closed DIN</i>	
			<i>W5-A</i>				<i>HN near room 16 DIN F Right</i>	
			<i>W6-A</i>				<i>HN near room 15 DIN F Left</i>	
			<i>W7-A</i>				<i>ROTC, break room DIN</i>	
			<i>W8-A</i>				<i>HIN near room 15 DIN Right</i>	
			<i>W9-A</i>				<i>HIN near room 15 DIN Left</i>	
			<i>W10-A</i>				<i>HIN near room 17 DIN Right</i>	
				Sampled by (Name – Print) <i>J. Richard Hamilton</i>		Client Remarks/Comments		
Ice <i>Y/N</i>	Custody Seals <i>Y/N</i>	Lab Comments		Relinquished by: <i>Mr. Sessions</i>	Date <i>10/09/18</i>	Time <i>13:20</i>	Received by: (SIGNATURE) <i>John Doe</i>	
				Relinquished by: (SIGNATURE) <i>Heather</i>	Date <i>10/09/18</i>	Time <i>15:00</i>	Received by: (SIGNATURE) <i>John Doe</i>	
				Relinquished by: (SIGNATURE) <i>N/A</i>	Date <i>10/10/18</i>	Time <i>08:05</i>	Received by: (SIGNATURE) <i>Sonya</i>	



18-283-0243
23169
10-10-2018
11:34:01

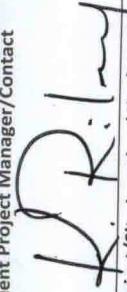
Site/Facility ID #	A	B	C	D	E	F	G	H	I
<i>Morrow</i>	Cool < 10C Na2S2O3 (Micro Only)	Cool <= 6C H2SO4 pH<2	None Required	NaOH pH>10	HNO3 pH<2	HCL pH<2	H3PO4 pH<2	Cool <= 6C Na2S2O3	

For Laboratory Use Only

Client Name/Address <i>GLE Associates</i>		Client Project Manager/Contact <i>K. R. H.</i>		Billing Information 1100 Spring Street Atlanta GA			
Project Description <i>Morrow HS</i>		Project Manager Phone # <i>1800-188661</i>		RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed			
Project Number <i>1800-188661</i>		Project Manager Email <i>Kirley@glassociates.com</i>		Method of Shipment <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> U <input type="checkbox"/> Courier <input type="checkbox"/> CI Other			
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Number of Containers Unless noted, all containers per Table II of 40 CFR Part 136.		Purchase Order Number <i>200.8 C 200.8 C</i>			
Date <i>10/18</i>	Time <i>0343</i>	Sample Identification W11-A					
<i>10/18</i>	<i>0344</i>	<i>W12-A</i>					
<i>10/18</i>	<i>0348</i>	<i>W13-A</i>					
<i>10/18</i>	<i>0349</i>	<i>W14-A</i>					
<i>10/18</i>	<i>0350</i>	<i>W15-A</i>					
<i>10/18</i>	<i>0352</i>	<i>W16-A</i>					
<i>10/18</i>	<i>0353</i>	<i>W17-A</i>					
<i>10/18</i>	<i>0357</i>	<i>W18-A</i>					
<i>10/18</i>	<i>0358</i>	<i>W19-A</i>					
<i>10/18</i>	<i>0400</i>	<i>W20-A</i>					
For Laboratory Use Only							
Ice <i>Y N</i>	Custody seals <i>Y N</i>	Lab Comments					
Blank/Cooler Temp <i>n/a</i>							
Sampled by (Name – Print) <i>K. R. H.</i>						Client Remarks/Comments	
Relinquished by: (SIGNATURE) <i>Mary J. H.</i>		Date <i>10/18/13</i>	Time <i>13:20</i>	Received by: (SIGNATURE) <i>Huber Averz</i>		Date <i>10/09/13</i>	Time <i>13:20</i>
Relinquished by: (SIGNATURE) <i>Huber Averz</i>		Date <i>10/18/13</i>	Time <i>15:00</i>	Received by: (SIGNATURE) <i>Felix</i>		Date <i>10/18/13</i>	Time <i>15:00</i>
Relinquished by: (SIGNATURE) <i>Soraya</i>		Date <i>10/18/13</i>	Time <i>00:05</i>				

Client Name/Address <i>Milt Assoc.</i>	Client Project Manager/Contact <i>J. R. L. and C.</i>	Billing Information			
		Project/Site Location (City/State) <i>Morrow HS</i>	Billing Address <i>1100 Spring St. Atlanta, GA</i>		
Project Description <i>Waypoint</i>		<input checked="" type="checkbox"/> RUSH – Additional charges apply	<input type="checkbox"/> Special Detection Limit(s)	<input checked="" type="checkbox"/> Method of Ship <i>Fed Ex</i>	<input type="checkbox"/> Courier
Project Number <i>18000-18861</i>		<input type="checkbox"/> Date Results Needed	<input type="checkbox"/> Client Drop Off		
Project Manager Phone # <i>404 373 3844</i>		Project Manager Email <i>kriley@gleassociates.com</i>	Purchase Order Number <i>200.879</i>	Site/Facility ID # <i>Morrow HS</i>	
Number of Containers <i>Unless noted, all containers per Table II of 40 CFR Part 136.</i>		(G)rab or (C)omposite		A Cool < 10°C Na2S2O3 (Micro Only)	
Matrix (Refer to Key) <i>ANALYTICAL</i>				B Cool <= 6°C	
Date		Time	Sample Identification	C H2SO4 pH<2	
<i>04/16</i>		<i>04:01</i>	<i>W21-A</i>	D None Required	
<i>04/05</i>		<i>04:02</i>	<i>W22-A</i>	E NaOH pH>10	
<i>04/06</i>		<i>04:03</i>	<i>W23-A</i>	F HNO3 pH<2	
<i>04/08</i>		<i>04:04</i>	<i>W24-A</i>	G HCl pH<2	
<i>04/09</i>		<i>04:05</i>	<i>W25-A</i>	H H3PO4 pH<2	
<i>04/12</i>		<i>04:13</i>	<i>W26-A</i>	I Cool <= 6°C NA2S2O3	
<i>04/13</i>		<i>04:15</i>	<i>W27-A</i>		
<i>04/15</i>		<i>04:16</i>	<i>W28-A</i>		
<i>04/16</i>		<i>04:21</i>	<i>W29-A</i>		
<i>04/21</i>			<i>W30-A</i>		
Required Analysis / Preservative					
<i>Dil G/H2O/HNO3</i>					
Comments/Notes					
<i>HWN concession stand DNF Left HWN near men room DNF Right HWN near men room DNF Left HWN near men room DNF Right HWN near men room DNF Left HWN near men room DNF Right HWN concessions stand DNF Right HWN concessions DNF Left Concession stand DNF Concession stand JCE Concession stand DNF Right NE</i>					
Client Remarks/Comments					
Sampled by (Name – Print) <i>J. R. L. and C.</i>					
Relinquished by (Signature) <i>J. R. L. and C.</i>					
Received by: (Signature) <i>J. R. L. and C.</i>					
Date Time <i>10/09/18 13:30</i>					
Relinquished by: (Signature) <i>J. R. L. and C.</i>					
Received by: (Signature) <i>J. R. L. and C.</i>					
Date Time <i>10/09/18 15:00</i>					
Relinquished by: (Signature) <i>J. R. L. and C.</i>					
Received by: (Signature) <i>J. R. L. and C.</i>					
Date Time <i>10/10/18 08:05</i>					
For Laboratory Use Only					
Ice <input checked="" type="radio"/>	Custody Seals <input checked="" type="radio"/>	Lab Comments			
Blank/Cooler Temp <i>n/a</i>					

Client Name/Address
Project Description

GLE Associates 
Project/Site Location (City/State)
Morrow HS

26 and All
Project Number
18000-18861
Waypoint 
ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Client Project Manager/Contact			Billing Information		
K. Rilley			100 Spring St., 820		
Project/Site Location (City/State)		RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed	Method of Shipment <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> Courier		GLE Associates CCPS: Morrow High School
Project Manager Phone #		Project Manager Email krilley@gleassociates.com	Purchase Order Number	Site/Facility ID # Morrow HS	
Number of Containers		Other			
(G)rab or (C)omposite				Comments/Notes	
Matrix (Refer to Key)				Catererica Bottle Filler Right NE	
Unless noted, all containers per Table II of 40 CFR Part 136.				Catereria DIN Left NW	
Date	Time	Sample Identification	Required Analysis / Preservative		
04/23	04:23	W31-A	DIN / HNO ₃ , HNO ₃		
04/23	04:23	W32-A			
04/24	04:24	W33-A			
04/25	04:25	W34-A			
04/27	04:27	W35-A			
04/28	04:28	W36-A			
04/29	04:29	W37-A			
04/30	04:30	W38-A			
04/32	04:32	W39-A			
04/33	04:33	W40-A			
For Laboratory Use Only					
Ice	Custody Seals	Lab Comments	Date	Time	Received by: (SIGNATURE)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		10/09/18	13:20	Helo Aver
Blank/Cooler Temp			Date	Time	Date
NA			10/09/18	15:00	Felix
			Date	Time	Date
			10/09/18	08:05	Sandy
Relinquished by: (SIGNATURE)					
Morris					
Relinquished by: (SIGNATURE)					
Helo Aver					
Relinquished by: (SIGNATURE)					
Felix					
Relinquished by: (SIGNATURE)					
Sandy					

Client Name/Address

GLE
Project Description
Project Number
18000 18841 4373 3844

Diamond Cu

Morrow HS

Waypoint
ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400



Billing Information

100 Spring St.
GLE Associates
CCPS: Morrow High School

RUSH – Additional charges apply
Special Detection Limit(s)
Date Results Needed

Fed Ex
 Courier

Project Manager Phone #
4373 3844
Project Manager Email
lkmill@glassassociates.com

Site/Facility ID #

Morrow HS

Cool < 10C Na2S2O3 (Micro Only)

Cool <= 6C H2SO4 pH<2

None Required

NaOH pH>10

HNO3 pH<2

HCl pH<2

H3PO4 pH<2

Cool <= 6C Na2S2O3

A Other

B Purchase Order Number

C Site/Facility ID #

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

Comments/Notes

Required Analysis / Preservative

(G)rab or (C)omposite

Matrix (Refer to Key)

Number of Containers

Date

Time

Sample Identification

Required Analysis / Preservative

(D)il (L)iquid (H)NO3

Sampled by (Name – Print)

J. Riley J. Hamilton

For Laboratory Use Only
Ice Custody Seals
Y/N Y/N
Blank/Cooler Temp
WA

Client Remarks/Comments

Relinquished by: (SIGNATURE)
J. Riley J. Hamilton

Date Time Received by: (SIGNATURE)
10/09/18 12:20 1460 Amer

Date Time Received by: (SIGNATURE)
10/09/18 15:00 RealeX

Date Time Received by: (SIGNATURE)
10/09/18 15:00 RealeX

Date Time Received by: (SIGNATURE)
10/09/18 0805 Solum

Client Name/Address		Client Project Manager/Contact		Billing Information	
<i>Bill</i>	<i>K. Riloff</i>	1100 Spring St.	820		
Project Description	Project/Site Location (City/State)	<input type="checkbox"/> RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed		Method of: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> Courier	
<i>Pb and U</i>	<i>Morrow HS</i>	Project Manager Email <i>kmml10n@glensassociates.com</i> <i>kmly@glensassociates.com</i>		Purchase Order Number <i>200.8 CR 38 DN</i>	
Project Number	Project Manager Phone #	Number of Containers <i>Unless noted, all containers per Table II of 40 CFR Part 136.</i>		Required Analysis / Preservative <i>DN (HNO3/HNO2)</i>	
<i>18000 18861</i>	<i>484 373 3844</i>				
Waypoint	ANALYTICAL				
2790 Whitten Road	Memphis, TN 38133				
(901) 213-2400					
Date	Time	Sample Identification			
06/18		<i>WS-A</i> <i>WS-B</i> <i>WS-C</i> <i>WS-D</i> <i>WS-E</i> <i>WS-F</i> <i>WS-G</i> <i>WS-H</i> <i>WS-I</i> <i>WS-J</i> <i>WS-K</i> <i>WS-L</i> <i>WS-M</i> <i>WS-N</i> <i>WS-O</i> <i>WS-P</i> <i>WS-Q</i> <i>WS-R</i> <i>WS-S</i> <i>WS-T</i> <i>WS-U</i> <i>WS-V</i> <i>WS-W</i> <i>WS-X</i> <i>WS-Y</i> <i>WS-Z</i>			
For Laboratory Use Only					
Ice	Custody Seals	Sampled by (Name – Print) <i>K. Riloff D. Hamilton</i> Relinquished by: (SIGNATURE) <i>Huber</i>			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Date <i>10/09/18</i> Time <i>1320</i> Received by: (SIGNATURE) <i>Huber</i>			
Blank/cooler Temp		Date <i>10/09/18</i> Time <i>15:00</i> Received by: (SIGNATURE) <i>Huber</i>			
<i>N/A</i>		Date <i>10/09/18</i> Time <i>15:00</i> Received by: (SIGNATURE) <i>Huber</i>			
Comments					
GLA Associates CCPS: Morrow High School					
Cool < 10°C Na2S2O3 (Micro Only) Cool <= 6°C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2 HCl pH<2 H3PO4 pH<2 Cool <= 6°C Na2S2O3					
P - Product M - Misc L - Liquid S - Solids					
Site/Facility ID #					
<i>Morrow HS</i>					
A B C D E F G H I					
Comments/Notes					
<i>HN near room 64 DNf left</i> <i>CR 38 DN</i> <i>HN near room 61A DNf right</i> <i>HN near room 46 DN</i> <i>CR 38 DN</i> <i>HN near room 40 DNf right</i> <i>HN near room 40 DNf left</i> <i>CR 38 DN</i> <i>consolidation office Rm 39 DN</i> <i>Medical Center DN</i>					
Client Remarks/Comments					
Relinquished by: (SIGNATURE) <i>Huber</i> Relinquished by: (SIGNATURE) <i>Huber</i> Relinquished by: (SIGNATURE)					
Date <i>10/09/18</i> Time <i>13:20</i> Received by: (SIGNATURE) <i>Huber</i> Date <i>10/09/18</i> Time <i>15:00</i> Received by: (SIGNATURE) <i>Huber</i> Date <i>10/09/18</i> Time <i>15:00</i> Received by: (SIGNATURE) <i>Huber</i>					

Client Name/Address		Client Project Manager/Contact		Billing Information		For Laboratory Use Only	
<i>Alt</i>	<i>K. Ril</i>	Project/Site Location (City/State) Morrow HS		1100 Spring St, 820			
Project Description	ANALYTICAL	<input type="checkbox"/> RUSH – Additional charges apply	<input type="checkbox"/> Special Detection Limit(s)	<input checked="" type="checkbox"/> Fed Ex	<input type="checkbox"/> Courier	Method of Ship	
Project Number	18000 -18861	Project Manager Phone # 404 373 3844		Project Manager Email kristen@gleassociates.com		Purchase Order Number	
Date	Time	Sample Identification 10/09/18 0553				Site/Facility ID # Morrow High School	
Number of Containers		(G)rab or (C)omposite		Required Analysis / Preservative		Comments/Notes <i>* Fieldhouse DIN</i>	
Unless noted, all containers per Table II of 40 CFR Part 136.		Matrix (Refer to Key)		DN 6 HNO3 HNO3			
Date		Time		Sample Identification W61-A			
Ice		Custody Seals <i>y/n</i>		Lab Comments <i>y/n</i>		Sampled by (Name – Print) <i>K. Ril</i>	
Blank/Cooler Temp						Client Remarks/Comments	
<i>n/a</i>							
Relinquished by: (SIGNATURE) <i>Alt</i>		Date 10/09/18 Time 13:20		Received by: (SIGNATURE) <i>K. Ril</i>		Date 10/09/18 Time 13:20	
Relinquished by: (SIGNATURE) <i>Morrow HS</i>		Date 10/09/18 Time 15:00		Received by: (SIGNATURE) <i>Morrow HS</i>		Date 10/09/18 Time 15:00	
Relinquished by: (SIGNATURE) <i>Scangreen</i>		Date 10/10/18 Time 08:05		Received by: (SIGNATURE) <i>Scangreen</i>		Date 10/10/18 Time 08:05	
18-283-0243 23169 10-10-2018 11:34:01							
GLE Associates CCPS: Morrow High School							

APPENDIX B
Laboratory Certification



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Watershed Protection Branch
2 Martin Luther King, Jr. Drive
Suite 1152, East Tower
Atlanta, Georgia 30334
404-463-1511

Mr. Michael T. Kauffman, Laboratory Director
Waypoint Analytical, Inc.
2790 Whitten Road
Memphis, TN 38133

MAR 13 2018

RE: Certification by Reciprocity
Waypoint Analytical, Inc.
Georgia ID #C 044

Dear Mr. Kauffman:

The Georgia Department of Natural Resources, Environmental Protection Division (EPD), is in receipt of your laboratory's request to fulfill your laboratory's request for Certification by Reciprocity for the analysis of **Lead and Copper** in Drinking Water by **EPA 200.8**. Therefore, in accordance with the Georgia Safe Drinking Water Act of 1977 (Sections 12-5-170 through 12-5-193, O.C.G.A.) and the Rules for Safe Drinking Water (Chapter 391-3-5), this certification replaces any previously issued certification and is valid until May 10, 2020. This certificate is contingent upon continued Certification by the State of Tennessee and is non-transferable. This certificate is also contingent upon continued acceptable semi-annual Proficiency Testing results.

Prior to the expiration of this certification, please contact your accrediting/certifying authority and request the following information be forwarded to Lynne Grubb at lynne.grubb@dnr.ga.gov or Sean Earley at sean.earley@dnr.ga.gov.

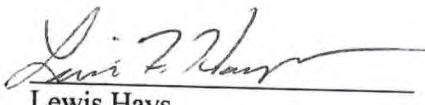
1. Copies of the most current on-site and accepted corrective actions
2. Copies of the scope of accreditation listing analytes

If you have any questions, please feel free to contact Lynne Grubb at 404-657-3189 or Sean Earley at 404-651-9581.

Thank you.



Sean Earley
Laboratory Certification Officer
Drinking Water Compliance Unit



Lewis Hays
Program Manager
Watershed Compliance Program

WAYPOINT ANALYTICAL (GA LAB ID# C044)
2790 Whitten Road Memphis, TN 38133
Effective March 1, 2018 to May 10, 2020

ANALYTE	CERTIFIED BY	METHOD
INORGANIC CHEMICALS		
Copper	TN DEC	200.8
Lead	TN DEC	200.8



Dear Client:

Re: Georgia State Law (O.C.G.A. § 12-2-9) requires all commercial laboratories submitting data to the Environmental Protection Division for regulatory purposes be approved or accredited by an accrediting authority such as NELAP. Pursuant to this regulation this laboratory affirms the following certification in support of this regulation under Chapter 391-3-26-05:

Laboratory: Waypoint Analytical, Inc.
2790 Whitten Road
Memphis, TN 38133

Accreditor: NELAP Accrediting Authority
Primary Accrediting State: Louisiana Department of Environmental Quality (LELAP)

Accreditation Number: 04015

Scope: CWA/RCRA

Effective: 07/01/2017

Expires: 06/30/2018

Certificate and scope available upon request.

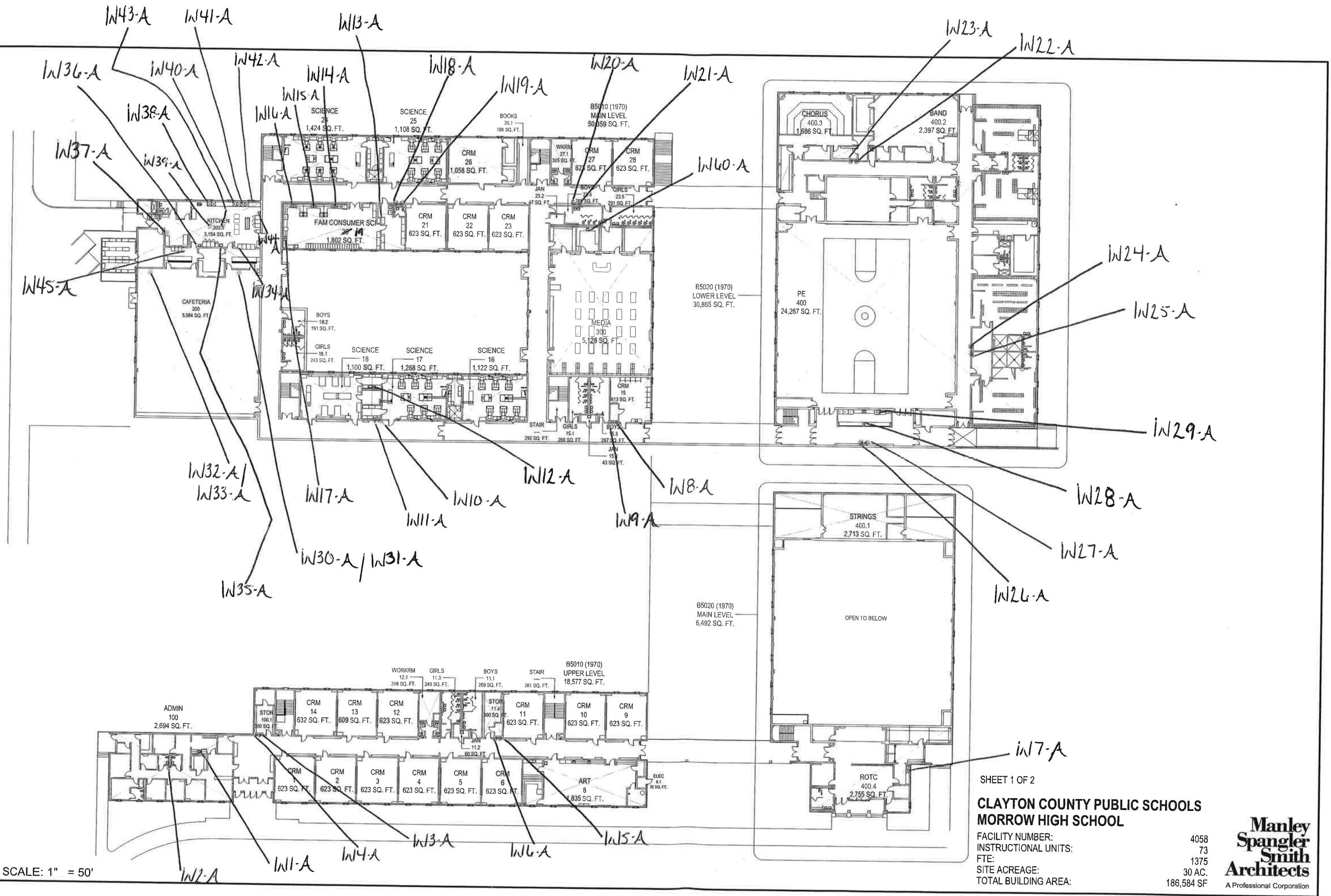
If you have any questions or comments please feel free in contacting me at
rmedina@waypointanalytical.com.

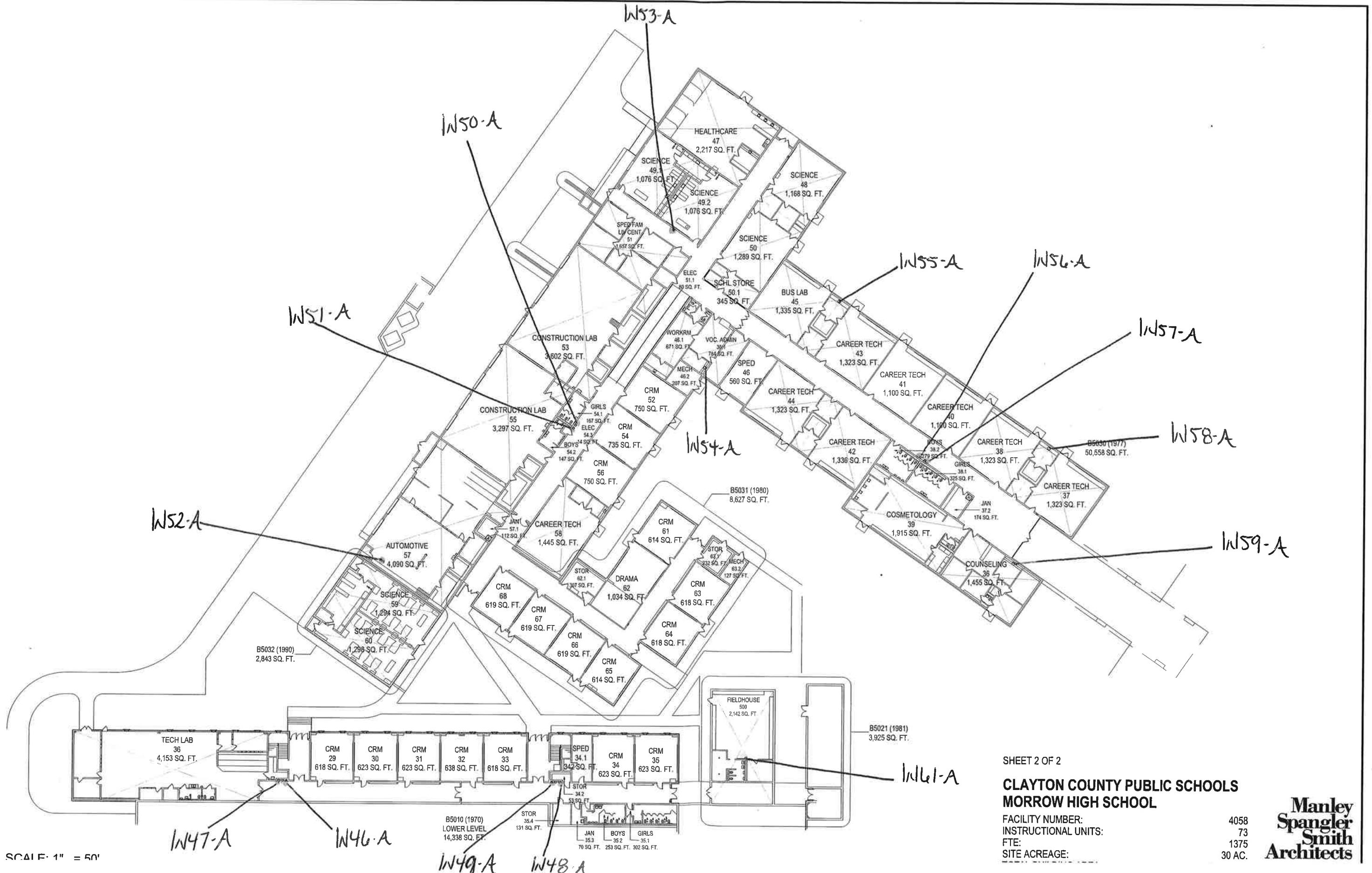
Respectfully,

Dr. Richard Medina
Chief Quality Officer

APPENDIX C

Sampling Plan





SHEET 2 OF 2

CLAYTON COUNTY PUBLIC SCHOOLS
MORROW HIGH SCHOOL

FACILITY NUMBER:
INSTRUCTIONAL UNITS:
FTE:
SITE ACREAGE:

4058
73
1375
30 AC.

Manley
Spangler
Smith
Architects