

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

**Mundy's Mill Middle School
CCPS No. 0174
1251 Mundy's Mill Road
Jonesboro, GA 30238**

GLE Project No.: 18000-18861

Prepared for:

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

September 2018

Prepared by:



**1100 Spring Street NW, Suite 820
Atlanta, Georgia 30309
404-373-3844 • Fax 404-373-3927**

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
2.0	INVENTORY AND SAMPLING PLANS	1
3.0	LEAD AND COPPER IN DRINKING WATER SAMPLING PROCEDURES.....	1
4.0	LEAD AND COPPER IN DRINKING WATER SAMPLING FINDINGS.....	2
	Table 4.1 Summary of Lead and Copper in Drinking Water Sampling Results	3
5.0	CONCLUSIONS AND RECOMMENDATIONS.....	7
6.0	LIMITATIONS	7

APPENDICES

APPENDIX A – Laboratory Analytical Results and Chains of Custody
APPENDIX B – Laboratory Certification
APPENDIX C – Sampling Plan

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 Mundy's Mill Middle 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 September 5, 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 Mundy's Mill Middle School located at 1251 Mundy's Mill Road in Jonesboro, Georgia. According to the Client's representative, Mundy's Mill Middle School was originally constructed in 1973, with major renovations or additions in 1982, 1986, 2000 and 2013. It is our understanding that no previous water testing has been conducted at Mundy's Mill Middle School.

2.0 INVENTORY AND SAMPLING PLANS

Prior to the initial sampling event, on February 28, 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 (HNO₃). 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 46 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 204, a sink in the media center and fountain near room 702 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 (µg/L) or parts per billion (ppb) and for copper sample analysis was 0.500 micrograms per liter (µg/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 µg/L or ppb** and if the copper level exceeds **1,300 µg/L or ppb**. Public water supply (PWS) systems are subject to an action level (AL) of **15 µg/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 µg/L or ppb for lead and 1,300 µg/L or ppb for copper**.

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MUNDY'S MILL MIDDLE SCHOOL
JONESBORO, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W1A	MAIN OFFICE DRINKING WATER	BRL	105
W2A	HALLWAY NEAR ROOM 202 DRINKING WATER FOUNTAIN (RIGHT)	BRL	54.4
W3A	HALLWAY NEAR ROOM 202 DRINKING WATER FOUNTAIN (LEFT)	BRL	48.1
W4A	HALLWAY NEAR ROOM 109 DRINKING WATER FOUNTAIN (RIGHT)	BRL	47.2
W5A	HALLWAY NEAR ROOM 109 DRINKING WATER FOUNTAIN (LEFT)	BRL	50.5
W6A	HALLWAY TECHNOLOGY LAB DRINKING WATER FOUNTAIN	3.82	165
W7A	TECHNOLOGY ROOM (NEAR OFFICE) DRINKING WATER FOUNTAIN	4.03	255
W8A	HALLWAY NEAR ROOM 302 DRINKING WATER FOUNTAIN (RIGHT)	BRL	69.5
W9A	HALLWAY NEAR ROOM 302 DRINKING WATER FOUNTAIN (LEFT)	BRL	43.0
W10A	HALLWAY NEAR ROOM 305 DRINKING WATER FOUNTAIN (RIGHT)	BRL	70.2
W11A	HALLWAY NEAR ROOM 305 DRINKING WATER FOUNTAIN (LEFT)	BRL	42.9
W12A	HALLWAY NEAR ROOM 702 DRINKING WATER FOUNTAIN (RIGHT)	BRL	97.7
W13A	HALLWAY NEAR ELECTRICAL ROOM DRINKING WATER FOUNTAIN (RIGHT)	BRL	68.8

TABLE 4.1
SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS
MUNDY'S MILL MIDDLE SCHOOL
JONESBORO, GEORGIA

SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W14A	HALLWAY NEAR ELECTRICAL ROOM DRINKING WATER FOUNTAIN (LEFT)	BRL	43.4
W15A	HALLWAY NEAR ROOM 406 DRINKING WATER FOUNTAIN (RIGHT)	BRL	62.0
W16A	HALLWAY NEAR ROOM 406 DRINKING WATER FOUNTAIN (LEFT)	BRL	65.1
W17A	GYM HALLWAY NEAR CONCESSIONS DRINKING WATER FOUNTAIN (RIGHT)	BRL	37.6
W18A	GYM HALLWAY NEAR OFFICE DRINKING WATER FOUNTAIN (LEFT)	BRL	41.7
W19A	GIRLS DRESSING ROOM DRINKING WATER FOUNTAIN	BRL	83.6
W20A	GIRLS LOCKER ROOM DRINKING WATER FOUNTAIN	BRL	68.0
W21A	HALLWAY 800 DRINKING WATER FOUNTAIN (RIGHT)	1.22	148
W22A	HALLWAY 800 DRINKING WATER FOUNTAIN (LEFT)	BRL	96.7
W23A	HALLWAY 900 DRINKING WATER FOUNTAIN (RIGHT)	BRL	95.0
W24A	HALLWAY 900 DRINKING WATER FOUNTAIN (MIDDLE)	BRL	69.2
W25A	HALLWAY 900 DRINKING WATER FOUNTAIN (LEFT)	BRL	93.3
W26A	CONCESSIONS DRINKING WATER	BRL	BRL
W27A	BOYS DRESSING ROOM DRINKING WATER FOUNTAIN	BRL	76.3

TABLE 4.1 SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS MUNDY'S MILL MIDDLE SCHOOL JONESBORO, GEORGIA			
SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W28A	BOYS DRESSING ROOM NEAR OFFICE DRINKING WATER FOUNTAIN	BRL	117
W29A	ROOM 404 DRINKING WATER	16.3	265
W30A	HALLWAY NEAR ROOM 306 DRINKING WATER FOUNTAIN (RIGHT)	BRL	57.6
W31A	HALLWAY NEAR ROOM 306 DRINKING WATER FOUNTAIN (LEFT)	BRL	55.1
W32A	HALLWAY ACROSS FROM MEDIA CENTER DRINKING WATER FOUNTAIN (RIGHT)	BRL	105
W33A	HALLWAY ACROSS FROM MEDIA CENTER DRINKING WATER FOUNTAIN (LEFT)	BRL	80.6
W34A	CAFETERIA DRINKING WATER (RIGHT)	BRL	165
W35A	CAFETERIA DRINKING WATER FOUNTAIN (LEFT)	BRL	118
W36A	OUTSIDE KITCHEN DRINKING WATER (RIGHT)	2.43	99.3
W37A	KITCHEN (IN KITCHEN EAST WALL) DRINKING WATER	0.718	107
W38A	KITCHEN BACK WALL (RIGHT) DRINKING WATER	BRL	95.8
W39A	KITCHEN BACK WALL (MIDDLE) DRINKING WATER	BRL	97.4
W40A	KITCHEN BACK WALL (LEFT) DRINKING WATER	BRL	95.2
W41A	KITCHEN BACK WALL (FARTHEST LEFT) DRINKING WATER	0.795	123

TABLE 4.1 SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS MUNDY'S MILL MIDDLE SCHOOL JONESBORO, GEORGIA			
SAMPLE NUMBER	TEST LOCATION	FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)	FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)
W42A	STEAMER	BRL	132
W43A	KITCHEN CLEVELAND HOSE	1.28	35.8
W44A	KITCHEN WEST WALL DRINKING WATER	4.13	362
W45A	KITCHEN ICE	BRL	0.729
W46A	OUTSIDE KITCHEN DRINKING WATER (LEFT)	4.62	262

BRL – Below Reporting Limits

µg/L – micrograms per liter

Results in **bold** indicate levels at or above the EPA PWS Action Level of 15 µg/L for Lead in Drinking Water

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

5.0 CONCLUSIONS ANDS RECOMMENDATIONS

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

1. A total of 46 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 Mundy's Mill Middle School. During the initial assessment, 46 first draw water samples were submitted to the laboratory for analysis.
2. Ten (10) of the 46 initial first draw water samples analyzed for lead indicated detectable levels of lead. One (1) of the 10 initial first draw water samples with detectable levels of lead were **greater** than the EPA PWS AL of 15µg/L. The drinking water sink in Room 404 (sink in the back closet between science classrooms 404 and 402) was removed from service for drinking water or cooking activities until follow-up sampling was conducted. Per the Client the outlet will be demarcated as a non-potable drinking source. However, if determined to be used for drinking, cooking, and/or nursing the outlet will need to be resampled. Outlets identified in room 204, a sink in the media center and fountain near room 702 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. 45 of the 46 first draw initial water samples indicated detectable levels of copper. None of the 46 initial first draw water samples with detectable levels of copper was **greater** than 1300µg/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

9/11/2018

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

Ref: Analytical Testing
Lab Report Number: 18-249-0281
Client Project Description: CCPS: Mundy's Mill Middle School
Jonesboro, GA
Project# 18000-18861

Dear Ms. Katrina Riley:
Waypoint Analytical, LLC. received sample(s) on 9/6/2018 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	



Sample Summary Table

Report Number: 18-249-0281
Client Project Description: CCPS: Mundy's Mill Middle School
Jonesboro, GA
Project# 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
89755	W1-A	Aqueous	09/05/2018 03:15	09/06/2018
89756	W2-A	Aqueous	09/05/2018 03:18	09/06/2018
89757	W3-A	Aqueous	09/05/2018 03:19	09/06/2018
89758	W4-A	Aqueous	09/05/2018 03:22	09/06/2018
89759	W5-A	Aqueous	09/05/2018 03:23	09/06/2018
89760	W6-A	Aqueous	09/05/2018 03:26	09/06/2018
89761	W7-A	Aqueous	09/05/2018 03:28	09/06/2018
89762	W8-A	Aqueous	09/05/2018 03:32	09/06/2018
89763	W9-A	Aqueous	09/05/2018 03:33	09/06/2018
89764	W10-A	Aqueous	09/05/2018 03:37	09/06/2018
89765	W11-A	Aqueous	09/05/2018 03:38	09/06/2018
89766	W12-A	Aqueous	09/05/2018 03:39	09/06/2018
89767	W13-A	Aqueous	09/05/2018 03:50	09/06/2018
89768	W14-A	Aqueous	09/05/2018 03:51	09/06/2018
89769	W15-A	Aqueous	09/05/2018 03:52	09/06/2018
89770	W16-A	Aqueous	09/05/2018 03:53	09/06/2018
89771	W17-A	Aqueous	09/05/2018 03:57	09/06/2018
89772	W18-A	Aqueous	09/05/2018 03:58	09/06/2018
89773	W19-A	Aqueous	09/05/2018 04:05	09/06/2018
89774	W20-A	Aqueous	09/05/2018 04:06	09/06/2018
89775	W21-A	Aqueous	09/05/2018 04:09	09/06/2018
89776	W22-A	Aqueous	09/05/2018 04:10	09/06/2018
89777	W23-A	Aqueous	09/05/2018 04:12	09/06/2018
89778	W24-A	Aqueous	09/05/2018 04:13	09/06/2018
89779	W25-A	Aqueous	09/05/2018 04:14	09/06/2018
89780	W26-A	Aqueous	09/05/2018 04:20	09/06/2018

Sample Summary Table

Report Number: 18-249-0281
Client Project Description: CCPS: Mundy's Mill Middle School
Jonesboro, GA
Project# 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
89781	W27-A	Aqueous	09/05/2018 04:22	09/06/2018
89782	W28-A	Aqueous	09/05/2018 04:24	09/06/2018
89783	W29-A	Aqueous	09/05/2018 04:32	09/06/2018
89784	W30-A	Aqueous	09/05/2018 04:34	09/06/2018
89785	W31-A	Aqueous	09/05/2018 04:35	09/06/2018
89786	W32-A	Aqueous	09/05/2018 04:39	09/06/2018
89787	W33-A	Aqueous	09/05/2018 04:40	09/06/2018
89788	W34-A	Aqueous	09/05/2018 04:41	09/06/2018
89789	W35-A	Aqueous	09/05/2018 04:42	09/06/2018
89790	W36-A	Aqueous	09/05/2018 04:47	09/06/2018
89791	W37-A	Aqueous	09/05/2018 04:49	09/06/2018
89792	W38-A	Aqueous	09/05/2018 04:49	09/06/2018
89793	W39-A	Aqueous	09/05/2018 04:50	09/06/2018
89794	W40-A	Aqueous	09/05/2018 04:51	09/06/2018
89795	W41-A	Aqueous	09/05/2018 04:54	09/06/2018
89796	W42-A	Aqueous	09/05/2018 04:55	09/06/2018
89797	W43-A	Aqueous	09/05/2018 04:56	09/06/2018
89798	W44-A	Aqueous	09/05/2018 04:57	09/06/2018
89799	W45-A	Aqueous	09/05/2018 04:59	09/06/2018
89800	W46-A	Aqueous	09/05/2018 05:00	09/06/2018

Summary of Detected Analytes

Project: CCPS: Mundy's Mill Middle School

Report Number: 18-249-0281

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W1-A	L 89755					
EPA-200.8	Copper	105	µg/L	0.500	09/11/2018 10:45	
W2-A	L 89756					
EPA-200.8	Copper	54.4	µg/L	0.500	09/11/2018 10:46	
W3-A	L 89757					
EPA-200.8	Copper	48.1	µg/L	0.500	09/11/2018 10:47	
W4-A	L 89758					
EPA-200.8	Copper	47.2	µg/L	0.500	09/11/2018 10:49	
W5-A	L 89759					
EPA-200.8	Copper	50.5	µg/L	0.500	09/11/2018 10:50	
W6-A	L 89760					
EPA-200.8	Copper	165	µg/L	0.500	09/11/2018 10:55	
EPA-200.8	Lead	3.82	µg/L	0.500	09/11/2018 10:55	
W7-A	L 89761					
EPA-200.8	Copper	255	µg/L	0.500	09/11/2018 10:57	
EPA-200.8	Lead	4.03	µg/L	0.500	09/11/2018 10:57	
W8-A	L 89762					
EPA-200.8	Copper	69.5	µg/L	0.500	09/11/2018 11:00	
W9-A	L 89763					
EPA-200.8	Copper	43.0	µg/L	0.500	09/11/2018 11:01	
W10-A	L 89764					
EPA-200.8	Copper	70.2	µg/L	0.500	09/11/2018 11:02	
W11-A	L 89765					
EPA-200.8	Copper	42.9	µg/L	0.500	09/11/2018 11:04	
W12-A	L 89766					
EPA-200.8	Copper	97.7	µg/L	0.500	09/11/2018 11:05	
W13-A	L 89767					
EPA-200.8	Copper	68.8	µg/L	0.500	09/11/2018 11:06	
W14-A	L 89768					
EPA-200.8	Copper	43.4	µg/L	0.500	09/11/2018 11:08	
W15-A	L 89769					
EPA-200.8	Copper	62.0	µg/L	0.500	09/11/2018 11:09	

Summary of Detected Analytes

Project: CCPS: Mundy's Mill Middle School

Report Number: 18-249-0281

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W16-A	L 89770					
EPA-200.8	Copper	65.1	µg/L	0.500	09/11/2018 11:14	
W17-A	L 89771					
EPA-200.8	Copper	37.6	µg/L	0.500	09/11/2018 11:16	
W18-A	L 89772					
EPA-200.8	Copper	41.7	µg/L	0.500	09/11/2018 11:17	
W19-A	L 89773					
EPA-200.8	Copper	83.6	µg/L	0.500	09/11/2018 11:18	
W20-A	L 89774					
EPA-200.8	Copper	68.0	µg/L	0.500	09/11/2018 11:20	
W21-A	L 89775					
EPA-200.8	Copper	148	µg/L	0.500	09/11/2018 11:35	
EPA-200.8	Lead	1.22	µg/L	0.500	09/11/2018 11:35	
W22-A	L 89776					
EPA-200.8	Copper	96.7	µg/L	0.500	09/11/2018 11:36	
W23-A	L 89777					
EPA-200.8	Copper	95.0	µg/L	0.500	09/11/2018 11:37	
W24-A	L 89778					
EPA-200.8	Copper	69.2	µg/L	0.500	09/11/2018 11:39	
W25-A	L 89779					
EPA-200.8	Copper	93.3	µg/L	0.500	09/11/2018 11:40	
W27-A	L 89781					
EPA-200.8	Copper	76.3	µg/L	0.500	09/11/2018 11:43	
W28-A	L 89782					
EPA-200.8	Copper	117	µg/L	0.500	09/11/2018 11:44	
W29-A	L 89783					
EPA-200.8	Copper	265	µg/L	0.500	09/11/2018 11:46	
EPA-200.8	Lead	16.3	µg/L	0.500	09/11/2018 11:46	
W30-A	L 89784					
EPA-200.8	Copper	57.6	µg/L	0.500	09/11/2018 11:51	
W31-A	L 89785					
EPA-200.8	Copper	55.1	µg/L	0.500	09/11/2018 11:52	

Summary of Detected Analytes

Project: CCPS: Mundy's Mill Middle School

Report Number: 18-249-0281

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W32-A	L 89786					
EPA-200.8	Copper	105	µg/L	0.500	09/11/2018 11:54	
W33-A	L 89787					
EPA-200.8	Copper	80.6	µg/L	0.500	09/11/2018 11:55	
W34-A	L 89788					
EPA-200.8	Copper	165	µg/L	0.500	09/11/2018 11:56	
W35-A	L 89789					
EPA-200.8	Copper	118	µg/L	0.500	09/11/2018 11:58	
W36-A	L 89790					
EPA-200.8	Copper	99.3	µg/L	0.500	09/11/2018 11:59	
EPA-200.8	Lead	2.43	µg/L	0.500	09/11/2018 11:59	
W37-A	L 89791					
EPA-200.8	Copper	107	µg/L	0.500	09/11/2018 12:00	
EPA-200.8	Lead	0.718	µg/L	0.500	09/11/2018 12:00	
W38-A	L 89792					
EPA-200.8	Copper	95.8	µg/L	0.500	09/11/2018 12:02	
W39-A	L 89793					
EPA-200.8	Copper	97.4	µg/L	0.500	09/11/2018 12:03	
W40-A	L 89794					
EPA-200.8	Copper	95.2	µg/L	0.500	09/11/2018 12:08	
W41-A	L 89795					
EPA-200.8	Copper	123	µg/L	0.500	09/11/2018 12:19	
EPA-200.8	Lead	0.795	µg/L	0.500	09/11/2018 12:19	
W42-A	L 89796					
EPA-200.8	Copper	132	µg/L	0.500	09/11/2018 12:21	
W43-A	L 89797					
EPA-200.8	Copper	35.8	µg/L	0.500	09/11/2018 12:22	
EPA-200.8	Lead	1.28	µg/L	0.500	09/11/2018 12:22	
W44-A	L 89798					
EPA-200.8	Copper	362	µg/L	0.500	09/11/2018 12:27	
EPA-200.8	Lead	4.13	µg/L	0.500	09/11/2018 12:27	
W45-A	L 89799					
EPA-200.8	Copper	0.729	µg/L	0.500	09/11/2018 12:30	



Summary of Detected Analytes

Project: CCPS: Mundy's Mill Middle School

Report Number: 18-249-0281

Client Sample ID Method	Lab Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
W46-A	L 89800					
EPA-200.8	Copper	262	µg/L	0.500	09/11/2018 12:32	
EPA-200.8	Lead	4.62	µg/L	0.500	09/11/2018 12:32	



Client: GLE Associates
Project: CCPS: Mundy's Mill Middle School
Lab Report Number: 18-249-0281
Date: 9/11/2018

CASE NARRATIVE

Metals Analyses Method EPA-200.8

Sample 89800 (W46-A)

QC Batch No: L398756/L398137

The matrix spike (MS) and/or the matrix spike duplicate (MSD) was out of the acceptable recovery range due to the analyte concentration being greater than 25 times the method quantitation limit (MQL). A dilution test was performed and the recovery was within the method limits. No matrix interference is suspected.

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89755**

Sample ID : **W1-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	105	µg/L	0.500	1	09/11/18 10:45	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 10:45	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89756**

Sample ID: **W2-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	54.4	µg/L	0.500	1	09/11/18 10:46	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 10:46	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89757**

Sample ID : **W3-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:19**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	48.1	µg/L	0.500	1	09/11/18 10:47	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 10:47	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89758**

Sample ID : **W4-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	47.2	µg/L	0.500	1	09/11/18 10:49	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 10:49	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89759**

Sample ID: **W5-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	50.5	µg/L	0.500	1	09/11/18 10:50	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 10:50	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information : Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89760**

Sample ID : **W6-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:26**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	165	µg/L	0.500	1	09/11/18 10:55	CCR	EPA-200.8
Lead	3.82	µg/L	0.500	1	09/11/18 10:55	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89761**

Sample ID: **W7-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	255	µg/L	0.500	1	09/11/18 10:57	CCR	EPA-200.8
Lead	4.03	µg/L	0.500	1	09/11/18 10:57	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89762**

Sample ID: **W8-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	69.5	µg/L	0.500	1	09/11/18 11:00	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:00	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89763**

Sample ID : **W9-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:33**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	43.0	µg/L	0.500	1	09/11/18 11:01	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:01	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89764**

Sample ID : **W10-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	70.2	µg/L	0.500	1	09/11/18 11:02	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:02	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89765**

Sample ID : **W11-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:38**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	42.9	µg/L	0.500	1	09/11/18 11:04	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:04	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89766**

Sample ID : **W12-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:39**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	97.7	µg/L	0.500	1	09/11/18 11:05	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:05	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89767**

Sample ID : **W13-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	68.8	µg/L	0.500	1	09/11/18 11:06	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:06	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89768**

Sample ID : **W14-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:51**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	43.4	µg/L	0.500	1	09/11/18 11:08	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:08	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89769**

Sample ID: **W15-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:52**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	62.0	µg/L	0.500	1	09/11/18 11:09	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:09	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89770**

Sample ID : **W16-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	65.1	µg/L	0.500	1	09/11/18 11:14	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:14	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89771**

Sample ID : **W17-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	37.6	µg/L	0.500	1	09/11/18 11:16	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:16	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89772**

Sample ID: **W18-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 3:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	41.7	µg/L	0.500	1	09/11/18 11:17	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:17	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89773**

Sample ID : **W19-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	83.6	µg/L	0.500	1	09/11/18 11:18	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:18	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89774**

Sample ID : **W20-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	68.0	µg/L	0.500	1	09/11/18 11:20	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:20	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89775**

Sample ID: **W21-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:09**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	148	µg/L	0.500	1	09/11/18 11:35	CCR	EPA-200.8
Lead	1.22	µg/L	0.500	1	09/11/18 11:35	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89776**

Sample ID : **W22-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	96.7	µg/L	0.500	1	09/11/18 11:36	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:36	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89777**

Sample ID : **W23-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	95.0	µg/L	0.500	1	09/11/18 11:37	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:37	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89778**

Sample ID : **W24-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:13**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	69.2	µg/L	0.500	1	09/11/18 11:39	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:39	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89779**

Sample ID: **W25-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:14**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	93.3	µg/L	0.500	1	09/11/18 11:40	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:40	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89780**

Sample ID : **W26-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<0.500	µg/L	0.500	1	09/11/18 11:41	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:41	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89781**

Sample ID : **W27-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	76.3	µg/L	0.500	1	09/11/18 11:43	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:43	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89782**

Sample ID: **W28-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:24**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	117	µg/L	0.500	1	09/11/18 11:44	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:44	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89783**

Sample ID : **W29-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:32**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	265	µg/L	0.500	1	09/11/18 11:46	CCR	EPA-200.8
Lead	16.3	µg/L	0.500	1	09/11/18 11:46	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89784**

Sample ID : **W30-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:34**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	57.6	µg/L	0.500	1	09/11/18 11:51	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:51	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89785**

Sample ID: **W31-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	55.1	µg/L	0.500	1	09/11/18 11:52	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:52	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89786**

Sample ID: **W32-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:39**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	105	µg/L	0.500	1	09/11/18 11:54	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:54	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89787**

Sample ID : **W33-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	80.6	µg/L	0.500	1	09/11/18 11:55	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:55	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89788**

Sample ID : **W34-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:41**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	165	µg/L	0.500	1	09/11/18 11:56	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:56	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89789**

Sample ID: **W35-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	118	µg/L	0.500	1	09/11/18 11:58	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 11:58	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89790**

Sample ID : **W36-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	99.3	µg/L	0.500	1	09/11/18 11:59	CCR	EPA-200.8
Lead	2.43	µg/L	0.500	1	09/11/18 11:59	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89791**

Sample ID : **W37-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	107	µg/L	0.500	1	09/11/18 12:00	CCR	EPA-200.8
Lead	0.718	µg/L	0.500	1	09/11/18 12:00	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89792**

Sample ID : **W38-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	95.8	µg/L	0.500	1	09/11/18 12:02	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 12:02	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89793**

Sample ID: **W39-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	97.4	µg/L	0.500	1	09/11/18 12:03	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 12:03	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89794**

Sample ID: **W40-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:51**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	95.2	µg/L	0.500	1	09/11/18 12:08	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 12:08	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89795**

Sample ID : **W41-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:54**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	123	µg/L	0.500	1	09/11/18 12:19	CCR	EPA-200.8
Lead	0.795	µg/L	0.500	1	09/11/18 12:19	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89796**

Sample ID : **W42-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	132	µg/L	0.500	1	09/11/18 12:21	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 12:21	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89797**

Sample ID : **W43-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:56**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	35.8	µg/L	0.500	1	09/11/18 12:22	CCR	EPA-200.8
Lead	1.28	µg/L	0.500	1	09/11/18 12:22	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date : 09/11/2018

Received : 9/6/2018



Andrea R. Brownfield
Project manager

Report Number : **18-249-0281**

REPORT OF ANALYSIS

Lab No : **89798**

Sample ID : **W44-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	362	µg/L	0.500	1	09/11/18 12:27	CCR	EPA-200.8
Lead	4.13	µg/L	0.500	1	09/11/18 12:27	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89799**

Sample ID: **W45-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 4:59**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	0.729	µg/L	0.500	1	09/11/18 12:30	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	09/11/18 12:30	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW Suite 820

Suite 820

Atlanta, GA 30309

Project CCPS: Mundy's Mill Middle School

Information: Jonesboro, GA

Project# 18000-18861

Report Date: 09/11/2018

Received: 9/6/2018



Andrea R. Brownfield
Project manager

Report Number: **18-249-0281**

REPORT OF ANALYSIS

Lab No: **89800**

Sample ID: **W46-A**

Matrix: **Aqueous**

Sampled: **9/5/2018 5:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	262	µg/L	0.500	1	09/11/18 12:32	CCR	EPA-200.8
Lead	4.62	µg/L	0.500	1	09/11/18 12:32	CCR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Mundy's Mill Middle School
Report No: 18-249-0281

QC Prep: L398135 **QC Analytical Batch(es):** L398756
QC Prep Batch Method: EPA-200.8 **Analysis Method:** EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L398135 Matrix: AQU
Associated Lab Samples: 89755, 89756, 89757, 89758, 89759, 89760, 89761, 89762, 89763, 89764, 89765, 89766, 89767, 89768, 89769, 89770, 89771, 89772, 89773, 89774

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	09/11/18 10:42
Lead	µg/L	< 0.500	0.500	09/11/18 10:42

Laboratory Control Sample LCS-L398135

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	50.6	101	85-115
Lead	µg/L	50.3	49.0	97.5	85-115

Matrix Spike & Matrix Spike Duplicate L 89774-MS-L398135 L 89774-MSD-L398135

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	68.0	50.3	50.3	113	113	89.5	89.5	70-130	0.0	20.0
Lead	µg/L	< 0.503	50.3	50.3	48.3	48.9	96.1	97.3	70-130	1.2	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Mundy's Mill Middle School
Report No: 18-249-0281

QC Prep: L398136
QC Prep Batch Method: EPA-200.8
QC Analytical Batch(es): L398756
Analysis Method: EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L398136 Matrix: AQU
Associated Lab Samples: 89775, 89776, 89777, 89778, 89779, 89780, 89781, 89782, 89783, 89784, 89785, 89786, 89787, 89788, 89789, 89790, 89791, 89792, 89793, 89794

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	09/11/18 11:28
Lead	µg/L	< 0.500	0.500	09/11/18 11:28

Laboratory Control Sample LCS-L398136

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	49.4	98.3	85-115
Lead	µg/L	50.3	49.2	97.9	85-115

Matrix Spike & Matrix Spike Duplicate L 89794-MS-L398136 L 89794-MSD-L398136

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	95.2	50.3	50.3	137	139	83.1	87.1	70-130	1.4	20.0
Lead	µg/L	< 0.503	50.3	50.3	48.5	49.6	96.5	98.7	70-130	2.2	20.0

Quality Control Data

Client ID: GLE Associates
Project Description: CCPS: Mundy's Mill Middle School
Report No: 18-249-0281

QC Prep: L398137 **QC Analytical Batch(es):** L398756
QC Prep Batch Method: EPA-200.8 **Analysis Method:** EPA-200.8
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L398137 Matrix: AQU
Associated Lab Samples: 89795, 89796, 89797, 89798, 89799, 89800

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	09/11/18 12:17
Lead	µg/L	< 0.500	0.500	09/11/18 12:17

Laboratory Control Sample LCS-L398137

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	50.5	100	85-115
Lead	µg/L	50.3	49.1	97.7	85-115

Matrix Spike & Matrix Spike Duplicate L 89800-MS-L398137 L 89800-MSD-L398137

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	262	50.3	50.3	308	295	91.5	65.6*	70-130	4.3	20.0
Lead	µg/L	4.62	50.3	50.3	54.5	53.8	99.2	97.8	70-130	1.2	20.0

Cooler Receipt Form

Customer Number: **23169**

Customer Name: **GLE Associates**

Report Number: **18-249-0281**

Shipping Method

☒ Fed Ex	☐ US Postal	☐ Lab	☐ Other :	
☐ UPS	☐ Client	☐ Courier	Thermometer ID:	N/A

Shipping container/cooler uncompromised?	☒ Yes	☐ No	
Number of coolers received	1		
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.	☐ Yes	☒ No	
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:

Signature: Sovanchampa Yos

Date & Time: 09/06/2018 11:22:26

18-249-0281
23169
09-06-2018
11:16:17



GLE Associates
CCPS: Mundy's Mill Middle School

Billing Information
1100 Spring Street 820
Atlanta, GA

Method of Shipment
☒ Fed Ex
☐ UPS
☐ Courier
☐ Client

Client Project Manager/Contact
K. R. Riedel

Project/Site Location (City/State)
Mundy's Mill MS

Jonesboro, GA

Project Description
Pb and Cu

Project Number
18000-18861

Waypoint ANALYTICAL



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

P - Product M - Misc

Other

Purchase Order Number

Site/Facility ID #

Mundy's Mill MS

A Cool < 10C NA25203 (Micro Only)

B Cool <= 6C

C H2SO4 pH<2

D None Required

E NaOH pH>10

F HNO3 pH<2

G HCL pH<2

H H3PO4 pH<2

I Cool <= 6C NA25203

Comments/Notes

Required Analysis / Preservative

(g)rab or (C)omposite

Matrix (Refer to Key)

Number of Containers

Sample Identification

Date, Time

0338

W11-A

0329

W12-A

0350

W13-A

0351

W14-A

0352

W15-A

0353

W16-A

0357

W17-A

0358

W18-A

0405

W19-A

0406

W20-A

Sampled by (Name - Print)

Client Remarks/Comments

Lab Comments

Custody

Seals

Y N

Blank/Cooler Temp

W1A

Date Time Received by: (SIGNATURE)

Date Time

9/5/18 10:45 AM

9/5/18 10:45

Date Time Received by: (SIGNATURE)

Date Time

9/5/18 15:00

9/5/18 15:00

Date Time Received by: (SIGNATURE)

Date Time

9/10/18 0808

9/10/18 0808

Client Name/Address GLE 18000 - 18861		Client Project Manager/Contact K. Riley Mundy's Mill MS 404-373-3844		Billing Information 1100 Spring Street 820 Atlanta, GA		18-249-0281 23169 09-06-2018 11:16:17 GLE Associates CCPS: Mundy's Mill Middle School	
Project Description Pb and Cu		Project/Site Location (City/State) Mundy's Mill MS Georgia, GA		☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) ☐ Date Results Needed		Method of Shipment ☒ Fed Ex ☐ Courier ☐ Client Drop Off	
Project Number 18000 - 18861		Project Manager Phone # 404-373-3844		Project Manager Email kriley@gleassociates.com		Site/Facility ID # Mundy's Mill MS	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Unless noted, all containers per Table II of 40 CFR Part 136.		200.8 Pb 200.8 Cu		A Cool < 10C NA25203 (Micro Only) B Cool <= 6C C H2SO4 pH<2 D None Required E NaOH pH>10 F HNO3 pH<2 G HCL pH<2 H H3PO4 pH<2 I Cool <= 6C NA25203	
Date 08/18/18		Time 0409		Sample Identification W21-A W22-A W23-A W24-A W25-A W26-A W27-A W28-A W29-A W30-A		Required Analysis / Preservative HW 800 (Right) DNF HW 800 (Left) DNF HW 900 (Right) DNF HW 900 (Middle) DNF HW 900 (Left) DNF Grossesions ~~ICE~~ Near Gym Boys Dressing DNF1 Near Boys Dressing DNF2 Office Room 404 DW Near Room 306 HW (Rgm) DNF	
Comments/Notes		Matrix (Refer to Key) DW G HND3 HND3		Number of Containers		(g) rab or (C) composite	
For Laboratory Use Only		Sampled by (Name - Print) K. Riley		Relinquished by: (SIGNATURE) K. Riley		Client Remarks/Comments	
Ice Y/N		Custody Seals Y/N		Lab Comments		Date Time 9/5/18 10:45 9/5/18 15:00 9/6/18 0808	
Blank/Cooler Temp N/A		Relinquished by: (SIGNATURE) K. Riley		Relinquished by: (SIGNATURE) K. Riley		Date Time 9/5/18 15:00 9/6/18 0808	

Client Name/Address GLE Associates 18-249-0281 23169 09-06-2018 11:16:17		Client Project Manager/Contact K. R. Rife 1100 Spring Street 820 Atlanta, GA		Billing Information 1100 Spring Street 820 Atlanta, GA		Method of Shipment ☒ Fed Ex ☐ UP ☐ Courier ☐ CLI		Site/Facility ID # Mundy's Mill MS	
Project Description Pb and Cu		Project/Site Location (City/State) Mundy's Mill MS		☐ RUSH - Additional charges apply ☐ Special Detection Limit(s) Date Results Needed		Purchase Order Number		Other	
Project Number 18000-18861		Project Manager Phone # 404-373-3844		Project Manager Email Kuliyog@glassociates.com		Required Analysis / Preservative		Comments/Notes	
Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Number of Containers		Matrix (Refer to Key)		(g)rab or (C)omposite		A Cool < 10C NA2S2O3 (Micro Only) B Cool <= 6C C H2SO4 pH<2 D None Required E NaOH pH>10 F HNO3 pH<2 G HCL pH<2 H H3PO4 pH<2 I Cool <= 6C NA2S2O3	
Sample Identification		Date		Time		Required Analysis / Preservative		Comments/Notes	
W41-A		09/05/18		0454		DIN		Back Kitchen for Wall (farthest left) DW	
W42-A		0455						Steamer	
W43-A		0456						Kitchen Cleveland House	
W44-A		0457						Kitchen West Wall DW	
W45-A		0459						ICE (Kitchen)	
W46-A		0500						Outside Kitchen (left) DW2	
For Laboratory Use Only		Ice		Custody Seals		Lab Comments		Client Remarks/Comments	
		N/A		N/A					
Blank/Cooler Temp		N/A							
Sampled by (Name-Print) K. R. Rife		Relinquished by: (SIGNATURE) K. R. Rife		Date 9/5/18 10:45		Time 10:45		Received by: (SIGNATURE) HUBO Avel	
		Relinquished by: (SIGNATURE) HUBO Avel		Date 9/5/18 15:00		Time 15:00		Received by: (SIGNATURE) FEDEX	
		Relinquished by: (SIGNATURE)		Date 9/10/18		Time 0808		Received by: (SIGNATURE) Sandy	

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

