

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

**Northcutt Elementary School  
CCPS No: 1060  
5451 West Fayetteville Road  
Atlanta, Georgia, 30349**

**GLE Project No.: 18000-18861**

**Prepared for:**

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

**April 2021**

**Prepared by:**



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

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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 Anderson Elementary. 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 May 31, 2018, Ms. Katrina Riley and Ms. Isis Hamilton of GLE Associates, Inc. (GLE), performed lead and copper in drinking water sampling of Client-designated drinking water fountains and outlets used for drinking, cooking, and/or nursing located within Northcutt Elementary School located at 5451 West Fayetteville Road, in Atlanta, Georgia. According to the Client's representative, Northcutt Elementary School was originally constructed in 1970, with major renovations or additions in 1980, 1983, 1987, 2001, and 2013. It is our understanding that no previous water testing has been conducted at Northcutt Elementary School.

## **2.0 INVENTORY AND SAMPLING PLANS**

Prior to the sampling event, on February 19, 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 event, a Client-designated representative flushed 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 ( $\text{HNO}_3$ ). The sample was collected immediately after activating the water fountain or outlet, described in this report as “first draw”. Samples from unflushed outlets were not submitted to the lab for analysis, per Client request.

The collected samples were submitted to Waypoint Analytical (Waypoint), 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 report and chain of custody 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 76 initial first draw 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. Samples collected from two unflushed outlets associated with Room 201 were not analyzed, per the Client’s request. The sample ID consisted of “W” for water, sample number, followed by A for initial first draw. 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 1.00 microgram per liter ( $\mu\text{g}/\text{L}$ ) or parts per billion (ppb) and for copper sample analysis was 5.00 micrograms per liter ( $\mu\text{g}/\text{L}$ ) 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  $\mu\text{g}/\text{L}$  or ppb** and if the copper level exceeds **1,300  $\mu\text{g}/\text{L}$  or ppb**. Public water supply (PWS) systems are subject to an action level (AL) of **15  $\mu\text{g}/\text{L}$  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  $\mu\text{g}/\text{L}$  or ppb for lead and 1,300  $\mu\text{g}/\text{L}$  or ppb for copper**.

**TABLE 4.1**  
**SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS**  
**NORTHCUTT ELEMENTARY SCHOOL**  
**ATLANTA, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>TEST LOCATION</b>	<b>FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)</b>	<b>FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)</b>
W1A	CLASSROOM-97 DRINKING WATER FOUNTAIN	BRL	92.9
W2A	CLASSROOM-97 FAUCET	BRL	75.3
W3A	CLASSROOM-98 DRINKING WATER FOUNTAIN	BRL	95.7
W4A	CLASSROOM-98 FAUCET	2.40	83.1
W5A	CLASSROOM-99 DRINKING WATER FOUNTAIN	BRL	66.2
W6A	CLASSROOM-99 FAUCET	BRL	58.8
W7A	CLASSROOM-100 DRINKING WATER FOUNTAIN	BRL	111
W8A	CLASSROOM-100 FAUCET	BRL	98.0
W9A	THIRD GRADE HALLWAY NEAR BATHROOM- DRINKING WATER FOUNTAIN (RIGHT)	BRL	51.3
W10A	THIRD GRADE HALLWAY NEAR BATHROOM- DRINKING WATER FOUNTAIN (LEFT)	BRL	53.0
W11A	NEAR ROOM-104 DRINKING WATER FOUNTAIN	BRL	42.5
W12A	NEAR ROOM-103 DRINKING WATER FOUNTAIN	BRL	46.2
W13A	NEAR ROOM- 108 DRINKING WATER FOUNTAIN	BRL	45.4
W14A	NEAR ROOM 107- DRINKING WATER FOUNTAIN	BRL	27.0

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**NORTHCUTT ELEMENTARY SCHOOL**  
**ATLANTA, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>TEST LOCATION</b>	<b>FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)</b>	<b>FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)</b>
W15A	NEAR ROOM 111- DRINKING WATER FOUNTAIN	BRL	29.4
W16A	MEDIA CENTER WORKROOM- FAUCET	2.32	56.4
W17A	NEAR ADMINISTRATIVE OFFICE- FAUCET	BRL	23.6
W18A	ADMINISTRATIVE OFFICE WORKROOM- FAUCET	3.96	81.9
W19A	CLASSROOM-115 DRINKING WATER FOUNTAIN	1.65	69.3
W20A	CLASSROOM-115 FAUCET	0.909	52.3
W21A	CLASSROOM-117 DRINKING WATER FOUNTAIN	BRL	41.9
W22A	CLASSROOM-117 FAUCET	BRL	27.9
W23A	CLASSROOM-116 DRINKING WATER FOUNTAIN	3.21	115
W24A	CLASSROOM-116 FAUCET	1.32	86.4
W25A	CLASSROOM-118 DRINKING WATER FOUNTAIN	BRL	39.4
W26A	CLASSROOM-118 FAUCET	BRL	28.7
W27A	CLASSROOM-119 DRINKING WATER FOUNTAIN	BRL	38.5
W28A	CLASSROOM-119 FAUCET	BRL	35.6
W29A	CLASSROOM-121 DRINKING WATER FOUNTAIN	BRL	36.8

**TABLE 4.1**  
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**NORTHCUTT ELEMENTARY SCHOOL**  
**ATLANTA, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>TEST LOCATION</b>	<b>FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)</b>	<b>FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)</b>
W30A	CLASSROOM-121 FAUCET	BRL	32.9
W31A	CLASSROOM-120 DRINKING WATER FOUNTAIN	BRL	47.2
W32A	CLASSROOM-120 FAUCET	BRL	37.7
W33A	CLASSROOM-130 DRINKING WATER FOUNTAIN	BRL	55.3
W34A	CLASSROOM-130 FAUCET	BRL	45.1
W35A	CLASSROOM-131 DRINKING WATER FOUNTAIN	0.967	113
W36A	CLASSROOM-131 FAUCET	BRL	73.2
W39A	CLASSROOM-133 DRINKING WATER FOUNTAIN	2.06	60.9
W40A	CLASSROOM-133 FAUCET	2.28	62.9
W41A	CLASSROOM-132 DRINKING WATER FOUNTAIN	1.39	57.0
W42A	CLASSROOM-132 FAUCET	1.41	59.3
W43A	CLASSROOM 134- DRINKING WATER FOUNTAIN	1.05	63.8
W44A	CLASSROOM- 134 FAUCET	0.756	59.0
W45A	CLASSROOM-202 DRINKING WATER FOUNTAIN	2.50	61.6
W46A	CLASSROOM-202 FAUCET	2.04	48.6

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**NORTHCUTT ELEMENTARY SCHOOL**  
**ATLANTA, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>TEST LOCATION</b>	<b>FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)</b>	<b>FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)</b>
W47A	CLASSROOM-135 DRINKING WATER FOUNTAIN	1.61	49.9
W48A	CLASSROOM-135 FAUCET	0.673	47.5
W49A	KINDERGARDEN HALLWAY NEAR ROOM 135- DRINKING WATER FOUNTAIN	BRL	31.5
W50A	GYMNASIUM- DRINKING WATER FOUNTAIN	BRL	55.5
W51A	CLASSROOM-140 DRINKING WATER FOUNTAIN	BRL	117
W52A	CLASSROOM-140 FAUCET	BRL	98.2
W53A	CLASSROOM-141 DRINKING WATER FOUNTAIN	BRL	120
W54A	CLASSROOM-141 FAUCET	BRL	84.4
W55A	CLASSROOM-138 DRINKING WATER FOUNTAIN	BRL	116
W56A	CLASSROOM-138 FAUCET	BRL	108
W57A	CLASSROOM-139 DRINKING WATER FOUNTAIN	0.567	224
W58A	CLASSROOM-139 FAUCET	0.991	281
W59A	FIFTH GRADE HALLWAY NEAR BATHROOM- DRINKING WATER FOUNTAIN (RIGHT)	BRL	33.3
W60A	FIFTH GRADE HALLWAY NEAR BATHROOM- DRINKING WATER FOUNTAIN (LEFT)	BRL	33.7

**TABLE 4.1**  
**SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS**  
**NORTHCUTT ELEMENTARY SCHOOL**  
**ATLANTA, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>TEST LOCATION</b>	<b>FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)</b>	<b>FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)</b>
W61A	NEAR ROOM 122- DRINKING WATER FOUNTAIN	BRL	19.0
W62A	NEAR ROOM 126- DRINKING WATER FOUNTAIN	BRL	18.2
W63A	NEAR ROOM 129- DRINKING WATER FOUNTAIN	BRL	19.1
W64A	CAFETERIA- DRINKING WATER FOUNTAIN (RIGHT)	BRL	18.9
W65A	CAFETERIA- BOTTLE FILLER (RIGHT)	BRL	24.2
W66A	CAFETERIA- DRINKING WATER FOUNTAIN (LEFT)	BRL	25.4
W67A	CAFETERIA- BOTTLE FILLER (LEFT)	BRL	25.7
W68A	KITCHEN (NEAR RIGHT ENTRANCE TO KITCHEN)- FAUCET	1.44	39.5
W69A	KITCHEN (SOUTH WALL)- FAUCET	0.745	55.7
W70A	KITCHEN (NORTH WALL NEAR EXIT SIGN)- FAUCET	1.48	90.5
W71A	KITCHEN (WEST WALL)- FAUCET (FURTHEST RIGHT)	2.38	136
W72A	KITCHEN (WEST WALL)- FAUCET (MIDDLE)	2.69	151
W73A	KITCHEN (WEST WALL)- FAUCET (FURTHEST LEFT)	3.67	163
W74A	KITCHEN- STEAMER	BRL	36.5
W75A	KITCHEN- ICE	BRL	0.654

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**SUMMARY OF LEAD AND COPPER IN DRINKING WATER SAMPLING RESULTS**  
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**ATLANTA, GEORGIA**

<b>SAMPLE NUMBER</b>	<b>TEST LOCATION</b>	<b>FIRST DRAW- LEAD SAMPLE RESULTS (µg/L)</b>	<b>FIRST DRAW- COPPER SAMPLE RESULTS (µg/L)</b>
W76A	KITCHEN (NEAR LEFT ENTRANCE TO KITCHEN)- FAUCET	2.43	32.3

BRL – Below Reporting Limits

µg/L – micrograms per liter

Results in **bold** indicate levels above the EPA PWS Action Level of 15 µg/L for Lead or 1300 µg/L for copper in Drinking Water

## **5.0 CONCLUSIONS**

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

1. A total of 76 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 the Northcutt Elementary School. 71 first draw water samples were submitted to the laboratory for analysis, and two unflushed outlets associated with Room 201 were not analyzed for lead and copper content, per the Client's request.
2. None of the 74 samples collected and analyzed for lead were reported to be greater than the EPA PWS AL of 15 µg/L for lead in drinking water.
3. None of the 74 samples collected and analyzed for copper were reported to be greater than 1,300 µg/L for copper in drinking water.
4. 27 of the 74 first draw water samples analyzed indicated detectable levels of lead. None of the 74 first draw water samples with detectable levels of lead were greater than the EPA PWS AL of 15µg/L.
5. 74 of the 74 first draw water samples analyzed indicated detectable levels of copper. None of the 74 first draw water samples with detectable levels of copper were greater than 1,300µg/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 the sampling event.

**APPENDIX A**  
**Laboratory Analytical Results and**  
**Chain of Custody**

6/7/2018

GLE Associates  
 Ms. Katrina Riley  
 1100 Spring St, NW<sup>2</sup>Suite 820  
 Suite 820  
 Atlanta, GA, 30309

Ref: Analytical Testing  
 Lab Report Number: 18-152-0247  
 Client Project Description: CCPS: Northcutt ES  
 Atlanta, GA  
 Project # 18000-18861

Dear Ms. Katrina Riley:

Waypoint Analytical, Inc. received sample(s) on 6/1/2018 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	





2790 Whitten Road, Memphis, TN 38133  
Main 901.213.2400 ° Fax 901.213.2440  
[www.waypointanalytical.com](http://www.waypointanalytical.com)

#### Sample Summary Table

**Report Number:** 18-152-0247

**Client Project Description:** CCPS: Northcutt ES  
Atlanta, GA  
Project # 18000-18861

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
89010	W1 - A	Aqueous	05/31/2018 03:25	06/01/2018
89011	W2 - A	Aqueous	05/31/2018 03:25	06/01/2018
89012	W3 - A	Aqueous	05/31/2018 03:27	06/01/2018
89013	W4 - A	Aqueous	05/31/2018 03:27	06/01/2018
89014	W5 - A	Aqueous	05/31/2018 03:30	06/01/2018
89015	W6 - A	Aqueous	05/31/2018 03:30	06/01/2018
89016	W7 - A	Aqueous	05/31/2018 03:33	06/01/2018
89017	W8 - A	Aqueous	05/31/2018 03:33	06/01/2018
89018	W9 - A	Aqueous	05/31/2018 03:36	06/01/2018
89019	W10 - A	Aqueous	05/31/2018 03:36	06/01/2018
89020	W11 - A	Aqueous	05/31/2018 03:40	06/01/2018
89021	W12 - A	Aqueous	05/31/2018 03:41	06/01/2018
89022	W13 - A	Aqueous	05/31/2018 03:43	06/01/2018
89023	W14 - A	Aqueous	05/31/2018 03:44	06/01/2018
89024	W15 - A	Aqueous	05/31/2018 03:46	06/01/2018
89025	W16 - A	Aqueous	05/31/2018 03:49	06/01/2018
89026	W17 - A	Aqueous	05/31/2018 03:53	06/01/2018
89027	W18 - A	Aqueous	05/31/2018 03:55	06/01/2018
89028	W19 - A	Aqueous	05/31/2018 03:58	06/01/2018
89029	W20 - A	Aqueous	05/31/2018 03:58	06/01/2018
89030	W21 - A	Aqueous	05/31/2018 04:02	06/01/2018
89031	W22 - A	Aqueous	05/31/2018 04:02	06/01/2018
89032	W23 - A	Aqueous	05/31/2018 04:04	06/01/2018
89033	W24 - A	Aqueous	05/31/2018 04:04	06/01/2018
89034	W25 - A	Aqueous	05/31/2018 04:06	06/01/2018
89035	W26 - A	Aqueous	05/31/2018 04:06	06/01/2018



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#### Sample Summary Table

**Report Number:** **18-152-0247**

**Client Project Description:** **CCPS: Northcutt ES**  
**Atlanta, GA**  
**Project # 18000-18861**

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
89036	W27 - A	Aqueous	05/31/2018 04:08	06/01/2018
89037	W28 - A	Aqueous	05/31/2018 04:08	06/01/2018
89038	W29 - A	Aqueous	05/31/2018 04:10	06/01/2018
89039	W30 - A	Aqueous	05/31/2018 04:10	06/01/2018
89040	W31 - A	Aqueous	05/31/2018 04:12	06/01/2018
89041	W32 - A	Aqueous	05/31/2018 04:12	06/01/2018
89042	W33 - A	Aqueous	05/31/2018 04:15	06/01/2018
89043	W34 - A	Aqueous	05/31/2018 04:15	06/01/2018
89044	W35 - A	Aqueous	05/31/2018 04:18	06/01/2018
89045	W36 - A	Aqueous	05/31/2018 04:18	06/01/2018
89046	W39 - A	Aqueous	05/31/2018 04:23	06/01/2018
89047	W40 - A	Aqueous	05/31/2018 04:23	06/01/2018
89048	W41 - A	Aqueous	05/31/2018 04:25	06/01/2018
89049	W42 - A	Aqueous	05/31/2018 04:25	06/01/2018
89050	W43 - A	Aqueous	05/31/2018 04:28	06/01/2018
89051	W44 - A	Aqueous	05/31/2018 04:28	06/01/2018
89052	W45 - A	Aqueous	05/31/2018 04:30	06/01/2018
89053	W46 - A	Aqueous	05/31/2018 04:30	06/01/2018
89054	W47 - A	Aqueous	05/31/2018 04:31	06/01/2018
89055	W48 - A	Aqueous	05/31/2018 04:31	06/01/2018
89056	W49 - A	Aqueous	05/31/2018 04:33	06/01/2018
89057	W50 - A	Aqueous	05/31/2018 04:37	06/01/2018
89058	W51 - A	Aqueous	05/31/2018 04:47	06/01/2018
89059	W52 - A	Aqueous	05/31/2018 04:47	06/01/2018
89060	W53 - A	Aqueous	05/31/2018 04:49	06/01/2018
89061	W54 - A	Aqueous	05/31/2018 04:49	06/01/2018



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#### Sample Summary Table

**Report Number:** **18-152-0247**

**Client Project Description:** **CCPS: Northcutt ES**  
**Atlanta, GA**  
**Project # 18000-18861**

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
89062	W55 - A	Aqueous	05/31/2018 04:53	06/01/2018
89063	W56 - A	Aqueous	05/31/2018 04:53	06/01/2018
89064	W57 - A	Aqueous	05/31/2018 04:55	06/01/2018
89065	W58 - A	Aqueous	05/31/2018 04:55	06/01/2018
89066	W59 - A	Aqueous	05/31/2018 04:57	06/01/2018
89067	W60 - A	Aqueous	05/31/2018 04:58	06/01/2018
89068	W61 - A	Aqueous	05/31/2018 04:59	06/01/2018
89069	W62 - A	Aqueous	05/31/2018 05:03	06/01/2018
89070	W63 - A	Aqueous	05/31/2018 05:04	06/01/2018
89071	W64 - A	Aqueous	05/31/2018 05:06	06/01/2018
89072	W65 - A	Aqueous	05/31/2018 05:06	06/01/2018
89073	W66 - A	Aqueous	05/31/2018 05:08	06/01/2018
89074	W67 - A	Aqueous	05/31/2018 05:09	06/01/2018
89075	W68 - A	Aqueous	05/31/2018 05:11	06/01/2018
89076	W69 - A	Aqueous	05/31/2018 05:12	06/01/2018
89077	W70 - A	Aqueous	05/31/2018 05:14	06/01/2018
89078	W71 - A	Aqueous	05/31/2018 05:17	06/01/2018
89079	W72 - A	Aqueous	05/31/2018 05:18	06/01/2018
89080	W73 - A	Aqueous	05/31/2018 05:18	06/01/2018
89081	W74 - A	Aqueous	05/31/2018 05:19	06/01/2018
89082	W75 - A	Aqueous	05/31/2018 05:22	06/01/2018
89083	W76 - A	Aqueous	05/31/2018 05:23	06/01/2018

<b>Summary of Detected Analytes</b>						
<b>Project:</b>	<b>CCPS: Northcutt ES</b>					
<b>Report Number:</b>	<b>18-152-0247</b>					
<b>Client Sample ID</b>	<b>Lab Sample ID</b>					
<b>Method</b>	<b>Parameters</b>		<b>Result</b>	<b>Units</b>	<b>Report Limit</b>	<b>Analyzed</b>

<b>Summary of Detected Analytes</b>						
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**Project:** CCPS: Northcutt ES

**Report Number:** 18-152-0247

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W16 - A</b>	<b>L 89025</b>							
EPA-200.8	Copper			56.4	µg/L	0.500	06/05/2018 15:08	
EPA-200.8	Lead			2.32	µg/L	0.500	06/05/2018 05:00	
<b>W17 - A</b>	<b>L 89026</b>							
EPA-200.8	Copper			23.6	µg/L	0.500	06/05/2018 15:10	
<b>W18 - A</b>	<b>L 89027</b>							
EPA-200.8	Copper			81.9	µg/L	0.500	06/05/2018 15:11	
EPA-200.8	Lead			3.96	µg/L	0.500	06/05/2018 05:07	
<b>W19 - A</b>	<b>L 89028</b>							
EPA-200.8	Copper			69.3	µg/L	0.500	06/05/2018 15:12	
EPA-200.8	Lead			1.65	µg/L	0.500	06/05/2018 05:21	
<b>W20 - A</b>	<b>L 89029</b>							
EPA-200.8	Copper			52.3	µg/L	0.500	06/05/2018 15:14	
EPA-200.8	Lead			0.909	µg/L	0.500	06/05/2018 05:24	
<b>W21 - A</b>	<b>L 89030</b>							
EPA-200.8	Copper			41.9	µg/L	0.500	06/05/2018 15:19	
<b>W22 - A</b>	<b>L 89031</b>							
EPA-200.8	Copper			27.9	µg/L	0.500	06/05/2018 15:20	
<b>W23 - A</b>	<b>L 89032</b>							
EPA-200.8	Copper			115	µg/L	0.500	06/05/2018 15:22	
EPA-200.8	Lead			3.21	µg/L	0.500	06/05/2018 05:34	
<b>W24 - A</b>	<b>L 89033</b>							
EPA-200.8	Copper			86.4	µg/L	0.500	06/05/2018 15:23	
EPA-200.8	Lead			1.32	µg/L	0.500	06/05/2018 05:38	
<b>W25 - A</b>	<b>L 89034</b>							
EPA-200.8	Copper			39.4	µg/L	0.500	06/05/2018 15:24	
<b>W26 - A</b>	<b>L 89035</b>							
EPA-200.8	Copper			28.7	µg/L	0.500	06/05/2018 15:26	
<b>W27 - A</b>	<b>L 89036</b>							
EPA-200.8	Copper			38.5	µg/L	0.500	06/05/2018 15:39	
<b>W28 - A</b>	<b>L 89037</b>							
EPA-200.8	Copper			35.6	µg/L	0.500	06/05/2018 15:41	

<b>Summary of Detected Analytes</b>						
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**Project:** CCPS: Northcutt ES

**Report Number:** 18-152-0247

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W29 - A</b>	<b>L 89038</b>	EPA-200.8	Copper	36.8	µg/L	0.500	06/05/2018 15:42	
<b>W30 - A</b>	<b>L 89039</b>	EPA-200.8	Copper	32.9	µg/L	0.500	06/05/2018 15:43	
<b>W31 - A</b>	<b>L 89040</b>	EPA-200.8	Copper	47.2	µg/L	0.500	06/05/2018 15:45	
<b>W32 - A</b>	<b>L 89041</b>	EPA-200.8	Copper	37.7	µg/L	0.500	06/05/2018 15:46	
<b>W33 - A</b>	<b>L 89042</b>	EPA-200.8	Copper	55.3	µg/L	0.500	06/05/2018 15:48	
<b>W34 - A</b>	<b>L 89043</b>	EPA-200.8	Copper	45.1	µg/L	0.500	06/05/2018 15:49	
<b>W35 - A</b>	<b>L 89044</b>	EPA-200.8	Copper	113	µg/L	0.500	06/05/2018 15:54	
		EPA-200.8	Lead	0.967	µg/L	0.500	06/05/2018 15:54	
<b>W36 - A</b>	<b>L 89045</b>	EPA-200.8	Copper	73.2	µg/L	0.500	06/05/2018 15:56	
<b>W39 - A</b>	<b>L 89046</b>	EPA-200.8	Copper	60.9	µg/L	0.500	06/05/2018 15:57	
		EPA-200.8	Lead	2.06	µg/L	0.500	06/05/2018 15:57	
<b>W40 - A</b>	<b>L 89047</b>	EPA-200.8	Copper	62.9	µg/L	0.500	06/05/2018 15:58	
		EPA-200.8	Lead	2.28	µg/L	0.500	06/05/2018 15:58	
<b>W41 - A</b>	<b>L 89048</b>	EPA-200.8	Copper	57.0	µg/L	0.500	06/05/2018 16:00	
		EPA-200.8	Lead	1.39	µg/L	0.500	06/05/2018 16:00	
<b>W42 - A</b>	<b>L 89049</b>	EPA-200.8	Copper	59.3	µg/L	0.500	06/05/2018 16:01	
		EPA-200.8	Lead	1.41	µg/L	0.500	06/05/2018 16:01	
<b>W43 - A</b>	<b>L 89050</b>	EPA-200.8	Copper	63.8	µg/L	0.500	06/05/2018 16:02	
		EPA-200.8	Lead	1.05	µg/L	0.500	06/05/2018 16:02	

<b>Summary of Detected Analytes</b>						
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**Project:** CCPS: Northcutt ES

**Report Number:** 18-152-0247

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W44 - A</b>	<b>L 89051</b>							
EPA-200.8	Copper			59.0	µg/L	0.500	06/05/2018 16:04	
EPA-200.8	Lead			0.756	µg/L	0.500	06/05/2018 16:04	
<b>W45 - A</b>	<b>L 89052</b>							
EPA-200.8	Copper			61.6	µg/L	0.500	06/05/2018 16:05	
EPA-200.8	Lead			2.50	µg/L	0.500	06/05/2018 16:05	
<b>W46 - A</b>	<b>L 89053</b>							
EPA-200.8	Copper			48.6	µg/L	0.500	06/05/2018 16:07	
EPA-200.8	Lead			2.04	µg/L	0.500	06/05/2018 16:07	
<b>W47 - A</b>	<b>L 89054</b>							
EPA-200.8	Copper			49.9	µg/L	0.500	06/05/2018 16:12	
EPA-200.8	Lead			1.61	µg/L	0.500	06/05/2018 16:12	
<b>W48 - A</b>	<b>L 89055</b>							
EPA-200.8	Copper			47.5	µg/L	0.500	06/05/2018 16:13	
EPA-200.8	Lead			0.673	µg/L	0.500	06/05/2018 16:13	
<b>W49 - A</b>	<b>L 89056</b>							
EPA-200.8	Copper			31.5	µg/L	0.500	06/06/2018 22:23	
<b>W50 - A</b>	<b>L 89057</b>							
EPA-200.8	Copper			55.5	µg/L	0.500	06/06/2018 22:26	
<b>W51 - A</b>	<b>L 89058</b>							
EPA-200.8	Copper			117	µg/L	0.500	06/06/2018 22:30	
<b>W52 - A</b>	<b>L 89059</b>							
EPA-200.8	Copper			98.2	µg/L	0.500	06/06/2018 22:35	
<b>W53 - A</b>	<b>L 89060</b>							
EPA-200.8	Copper			120	µg/L	0.500	06/06/2018 22:38	
<b>W54 - A</b>	<b>L 89061</b>							
EPA-200.8	Copper			84.4	µg/L	0.500	06/06/2018 22:50	
<b>W55 - A</b>	<b>L 89062</b>							
EPA-200.8	Copper			116	µg/L	0.500	06/06/2018 22:53	
<b>W56 - A</b>	<b>L 89063</b>							
EPA-200.8	Copper			108	µg/L	0.500	06/06/2018 22:58	
<b>W57 - A</b>	<b>L 89064</b>							
EPA-200.8	Copper			224	µg/L	0.500	06/06/2018 23:03	

<b>Summary of Detected Analytes</b>						
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**Project:** CCPS: Northcutt ES

**Report Number:** 18-152-0247

Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W57 - A</b>	<b>L 89064</b>	EPA-200.8	Lead	0.567	µg/L	0.500	06/06/2018 23:03	
<b>W58 - A</b>	<b>L 89065</b>	EPA-200.8	Copper	281	µg/L	0.500	06/06/2018 23:08	
		EPA-200.8	Lead	0.991	µg/L	0.500	06/06/2018 23:08	
<b>W59 - A</b>	<b>L 89066</b>	EPA-200.8	Copper	33.3	µg/L	0.500	06/06/2018 23:13	
<b>W60 - A</b>	<b>L 89067</b>	EPA-200.8	Copper	33.7	µg/L	0.500	06/06/2018 23:16	
<b>W61 - A</b>	<b>L 89068</b>	EPA-200.8	Copper	19.0	µg/L	0.500	06/06/2018 23:20	
<b>W62 - A</b>	<b>L 89069</b>	EPA-200.8	Copper	18.2	µg/L	0.500	06/06/2018 23:23	
<b>W63 - A</b>	<b>L 89070</b>	EPA-200.8	Copper	19.1	µg/L	0.500	06/06/2018 23:27	
<b>W64 - A</b>	<b>L 89071</b>	EPA-200.8	Copper	18.9	µg/L	0.500	06/06/2018 23:38	
<b>W65 - A</b>	<b>L 89072</b>	EPA-200.8	Copper	24.2	µg/L	0.500	06/06/2018 23:42	
<b>W66 - A</b>	<b>L 89073</b>	EPA-200.8	Copper	25.4	µg/L	0.500	06/06/2018 23:45	
<b>W67 - A</b>	<b>L 89074</b>	EPA-200.8	Copper	25.7	µg/L	0.500	06/06/2018 23:49	
<b>W68 - A</b>	<b>L 89075</b>	EPA-200.8	Copper	39.5	µg/L	0.500	06/06/2018 23:52	
		EPA-200.8	Lead	1.44	µg/L	0.500	06/06/2018 23:52	
<b>W69 - A</b>	<b>L 89076</b>	EPA-200.8	Copper	55.7	µg/L	0.500	06/07/2018 00:26	
		EPA-200.8	Lead	0.745	µg/L	0.500	06/07/2018 00:26	
<b>W70 - A</b>	<b>L 89077</b>	EPA-200.8	Copper	90.5	µg/L	0.500	06/07/2018 00:29	
		EPA-200.8	Lead	1.48	µg/L	0.500	06/07/2018 00:29	

<b>Summary of Detected Analytes</b>						
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**Project:** CCPS: Northcutt ES

**Report Number:** 18-152-0247

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Client Sample ID	Lab Sample ID	Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>W71 - A</b>	<b>L 89078</b>							
EPA-200.8	Copper			136	µg/L	0.500	06/07/2018 00:33	
EPA-200.8	Lead			2.38	µg/L	0.500	06/07/2018 00:33	
<b>W72 - A</b>	<b>L 89079</b>							
EPA-200.8	Copper			151	µg/L	0.500	06/07/2018 00:38	
EPA-200.8	Lead			2.69	µg/L	0.500	06/07/2018 00:38	
<b>W73 - A</b>	<b>L 89080</b>							
EPA-200.8	Copper			163	µg/L	0.500	06/07/2018 00:43	
EPA-200.8	Lead			3.67	µg/L	0.500	06/07/2018 00:43	
<b>W74 - A</b>	<b>L 89081</b>							
EPA-200.8	Copper			36.5	µg/L	0.500	06/07/2018 00:48	
<b>W75 - A</b>	<b>L 89082</b>							
EPA-200.8	Copper			0.654	µg/L	0.500	06/07/2018 00:51	
<b>W76 - A</b>	<b>L 89083</b>							
EPA-200.8	Copper			32.3	µg/L	0.500	06/07/2018 00:54	
EPA-200.8	Lead			2.43	µg/L	0.500	06/07/2018 00:54	

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Client: GLE Associates  
Project: CCPS: Northcutt ES  
Lab Report Number: 18-152-0247  
Date: 6/7/2018

## CASE NARRATIVE

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### **Metals Analyses Method EPA-200.8**

Analyte: Cu

QC Batch No: L384638/L384321

One or more Internal Standards are outside method acceptance criteria. Re-analysis and/or sample dilutions are required.



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Main 901.213.2400 ° Fax 901.213.2440  
[www.waypointanalytical.com](http://www.waypointanalytical.com)

23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89010**

Matrix: **Aqueous**

Sample ID : **W1 - A**

Sampled: **5/31/2018 3:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>92.9</b>	µg/L	0.500	1	06/05/18 14:32	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 03:26	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89011**

Matrix: **Aqueous**

Sample ID : **W2 - A**

Sampled: **5/31/2018 3:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>75.3</b>	µg/L	0.500	1	06/05/18 14:33	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 03:29	CCR	EPA-200.8

---

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



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23169

GLE Associates

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1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89012**

Matrix: **Aqueous**

Sample ID : **W3 - A**

Sampled: **5/31/2018 3:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>95.7</b>	µg/L	0.500	1	06/05/18 14:35	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 03:33	CCR	EPA-200.8

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**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89013**

Matrix: **Aqueous**

Sample ID : **W4 - A**

Sampled: **5/31/2018 3:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>83.1</b>	µg/L	0.500	1	06/05/18 14:36	CCR	EPA-200.8
Lead	<b>2.40</b>	µg/L	0.500	1	06/05/18 03:36	CCR	EPA-200.8

---

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



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23169

GLE Associates

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1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89014**

Matrix: **Aqueous**

Sample ID : **W5 - A**

Sampled: **5/31/2018 3:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>66.2</b>	µg/L	0.500	1	06/05/18 14:37	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 03:50	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89015**

Matrix: **Aqueous**

Sample ID : **W6 - A**

Sampled: **5/31/2018 3:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>58.8</b>	µg/L	0.500	1	06/05/18 14:39	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 03:53	CCR	EPA-200.8

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**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89016**

Matrix: **Aqueous**

Sample ID : **W7 - A**

Sampled: **5/31/2018 3:33**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>111</b>	µg/L	0.500	1	06/05/18 14:52	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 04:19	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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[www.waypointanalytical.com](http://www.waypointanalytical.com)

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89017**

Matrix: **Aqueous**

Sample ID : **W8 - A**

Sampled: **5/31/2018 3:33**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>98.0</b>	µg/L	0.500	1	06/05/18 14:53	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 04:22	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Main 901.213.2400 ° Fax 901.213.2440  
[www.waypointanalytical.com](http://www.waypointanalytical.com)

23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89018**

Matrix: **Aqueous**

Sample ID : **W9 - A**

Sampled: **5/31/2018 3:36**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>51.3</b>	µg/L	0.500	1	06/05/18 14:55	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 04:36	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89019**

Matrix: **Aqueous**

Sample ID : **W10 - A**

Sampled: **5/31/2018 3:36**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>53.0</b>	µg/L	0.500	1	06/05/18 14:56	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 04:39	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89020**

Matrix: **Aqueous**

Sample ID : **W11 - A**

Sampled: **5/31/2018 3:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>42.5</b>	µg/L	0.500	1	06/05/18 15:01	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 04:43	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89021**

Matrix: **Aqueous**

Sample ID : **W12 - A**

Sampled: **5/31/2018 3:41**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>46.2</b>	µg/L	0.500	1	06/05/18 15:03	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 04:46	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89022**

Matrix: **Aqueous**

Sample ID : **W13 - A**

Sampled: **5/31/2018 3:43**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>45.4</b>	µg/L	0.500	1	06/05/18 15:04	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 04:50	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89023**

Matrix: **Aqueous**

Sample ID : **W14 - A**

Sampled: **5/31/2018 3:44**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>27.0</b>	µg/L	0.500	1	06/05/18 15:06	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 04:53	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89024**

Matrix: **Aqueous**

Sample ID : **W15 - A**

Sampled: **5/31/2018 3:46**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>29.4</b>	µg/L	0.500	1	06/05/18 15:07	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 04:57	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89025**

Matrix: **Aqueous**

Sample ID : **W16 - A**

Sampled: **5/31/2018 3:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>56.4</b>	µg/L	0.500	1	06/05/18 15:08	CCR	EPA-200.8
Lead	<b>2.32</b>	µg/L	0.500	1	06/05/18 05:00	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89026**

Matrix: **Aqueous**

Sample ID : **W17 - A**

Sampled: **5/31/2018 3:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>23.6</b>	µg/L	0.500	1	06/05/18 15:10	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 05:04	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89027**

Matrix: **Aqueous**

Sample ID : **W18 - A**

Sampled: **5/31/2018 3:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>81.9</b>	µg/L	0.500	1	06/05/18 15:11	CCR	EPA-200.8
Lead	<b>3.96</b>	µg/L	0.500	1	06/05/18 05:07	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89028**

Matrix: **Aqueous**

Sample ID : **W19 - A**

Sampled: **5/31/2018 3:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>69.3</b>	µg/L	0.500	1	06/05/18 15:12	CCR	EPA-200.8
Lead	<b>1.65</b>	µg/L	0.500	1	06/05/18 05:21	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

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Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89029**

Matrix: **Aqueous**

Sample ID : **W20 - A**

Sampled: **5/31/2018 3:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>52.3</b>	µg/L	0.500	1	06/05/18 15:14	CCR	EPA-200.8
Lead	<b>0.909</b>	µg/L	0.500	1	06/05/18 05:24	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

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Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89030**

Matrix: **Aqueous**

Sample ID : **W21 - A**

Sampled: **5/31/2018 4:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>41.9</b>	µg/L	0.500	1	06/05/18 15:19	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 05:28	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89031**

Matrix: **Aqueous**

Sample ID : **W22 - A**

Sampled: **5/31/2018 4:02**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>27.9</b>	µg/L	0.500	1	06/05/18 15:20	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 05:31	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89032**

Matrix: **Aqueous**

Sample ID : **W23 - A**

Sampled: **5/31/2018 4:04**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>115</b>	µg/L	0.500	1	06/05/18 15:22	CCR	EPA-200.8
Lead	<b>3.21</b>	µg/L	0.500	1	06/05/18 05:34	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89033**

Matrix: **Aqueous**

Sample ID : **W24 - A**

Sampled: **5/31/2018 4:04**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>86.4</b>	µg/L	0.500	1	06/05/18 15:23	CCR	EPA-200.8
Lead	<b>1.32</b>	µg/L	0.500	1	06/05/18 05:38	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89034**

Matrix: **Aqueous**

Sample ID : **W25 - A**

Sampled: **5/31/2018 4:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>39.4</b>	µg/L	0.500	1	06/05/18 15:24	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 05:41	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89035**

Matrix: **Aqueous**

Sample ID : **W26 - A**

Sampled: **5/31/2018 4:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>28.7</b>	µg/L	0.500	1	06/05/18 15:26	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 05:45	CCR	EPA-200.8

---

Qualifiers/  
Definitions

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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

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Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89036**

Matrix: **Aqueous**

Sample ID : **W27 - A**

Sampled: **5/31/2018 4:08**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>38.5</b>	µg/L	0.500	1	06/05/18 15:39	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 15:39	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89037**

Matrix: **Aqueous**

Sample ID : **W28 - A**

Sampled: **5/31/2018 4:08**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>35.6</b>	µg/L	0.500	1	06/05/18 15:41	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 15:41	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89038**

Matrix: **Aqueous**

Sample ID : **W29 - A**

Sampled: **5/31/2018 4:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>36.8</b>	µg/L	0.500	1	06/05/18 15:42	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 15:42	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89039**

Matrix: **Aqueous**

Sample ID : **W30 - A**

Sampled: **5/31/2018 4:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>32.9</b>	µg/L	0.500	1	06/05/18 15:43	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 15:43	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89040**

Matrix: **Aqueous**

Sample ID : **W31 - A**

Sampled: **5/31/2018 4:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>47.2</b>	µg/L	0.500	1	06/05/18 15:45	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 15:45	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89041**

Matrix: **Aqueous**

Sample ID : **W32 - A**

Sampled: **5/31/2018 4:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>37.7</b>	µg/L	0.500	1	06/05/18 15:46	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 15:46	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89042**

Matrix: **Aqueous**

Sample ID : **W33 - A**

Sampled: **5/31/2018 4:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>55.3</b>	µg/L	0.500	1	06/05/18 15:48	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 15:48	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89043**

Matrix: **Aqueous**

Sample ID : **W34 - A**

Sampled: **5/31/2018 4:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>45.1</b>	µg/L	0.500	1	06/05/18 15:49	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 15:49	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89044**

Matrix: **Aqueous**

Sample ID : **W35 - A**

Sampled: **5/31/2018 4:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>113</b>	µg/L	0.500	1	06/05/18 15:54	CCR	EPA-200.8
Lead	<b>0.967</b>	µg/L	0.500	1	06/05/18 15:54	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89045**

Matrix: **Aqueous**

Sample ID : **W36 - A**

Sampled: **5/31/2018 4:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>73.2</b>	µg/L	0.500	1	06/05/18 15:56	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/05/18 15:56	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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[www.waypointanalytical.com](http://www.waypointanalytical.com)

23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89046**

Matrix: **Aqueous**

Sample ID : **W39 - A**

Sampled: **5/31/2018 4:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>60.9</b>	µg/L	0.500	1	06/05/18 15:57	CCR	EPA-200.8
Lead	<b>2.06</b>	µg/L	0.500	1	06/05/18 15:57	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
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Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89047**

Matrix: **Aqueous**

Sample ID : **W40 - A**

Sampled: **5/31/2018 4:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>62.9</b>	µg/L	0.500	1	06/05/18 15:58	CCR	EPA-200.8
Lead	<b>2.28</b>	µg/L	0.500	1	06/05/18 15:58	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89048**

Matrix: **Aqueous**

Sample ID : **W41 - A**

Sampled: **5/31/2018 4:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>57.0</b>	µg/L	0.500	1	06/05/18 16:00	CCR	EPA-200.8
Lead	<b>1.39</b>	µg/L	0.500	1	06/05/18 16:00	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89049**

Matrix: **Aqueous**

Sample ID : **W42 - A**

Sampled: **5/31/2018 4:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>59.3</b>	µg/L	0.500	1	06/05/18 16:01	CCR	EPA-200.8
Lead	<b>1.41</b>	µg/L	0.500	1	06/05/18 16:01	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89050**

Matrix: **Aqueous**

Sample ID : **W43 - A**

Sampled: **5/31/2018 4:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>63.8</b>	µg/L	0.500	1	06/05/18 16:02	CCR	EPA-200.8
Lead	<b>1.05</b>	µg/L	0.500	1	06/05/18 16:02	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89051**

Matrix: **Aqueous**

Sample ID : **W44 - A**

Sampled: **5/31/2018 4:28**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>59.0</b>	µg/L	0.500	1	06/05/18 16:04	CCR	EPA-200.8
Lead	<b>0.756</b>	µg/L	0.500	1	06/05/18 16:04	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
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Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89052**

Matrix: **Aqueous**

Sample ID : **W45 - A**

Sampled: **5/31/2018 4:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>61.6</b>	µg/L	0.500	1	06/05/18 16:05	CCR	EPA-200.8
Lead	<b>2.50</b>	µg/L	0.500	1	06/05/18 16:05	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89053**

Matrix: **Aqueous**

Sample ID : **W46 - A**

Sampled: **5/31/2018 4:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>48.6</b>	µg/L	0.500	1	06/05/18 16:07	CCR	EPA-200.8
Lead	<b>2.04</b>	µg/L	0.500	1	06/05/18 16:07	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

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Information : Atlanta, GA  
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Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89054**

Matrix: **Aqueous**

Sample ID : **W47 - A**

Sampled: **5/31/2018 4:31**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>49.9</b>	µg/L	0.500	1	06/05/18 16:12	CCR	EPA-200.8
Lead	<b>1.61</b>	µg/L	0.500	1	06/05/18 16:12	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89055**

Matrix: **Aqueous**

Sample ID : **W48 - A**

Sampled: **5/31/2018 4:31**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>47.5</b>	µg/L	0.500	1	06/05/18 16:13	CCR	EPA-200.8
Lead	<b>0.673</b>	µg/L	0.500	1	06/05/18 16:13	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
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Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89056**

Matrix: **Aqueous**

Sample ID : **W49 - A**

Sampled: **5/31/2018 4:33**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>31.5</b>	µg/L	0.500	1	06/06/18 22:23	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 22:23	CCR	EPA-200.8

---

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



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89057**

Matrix: **Aqueous**

Sample ID : **W50 - A**

Sampled: **5/31/2018 4:37**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>55.5</b>	µg/L	0.500	1	06/06/18 22:26	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 22:26	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89058**

Matrix: **Aqueous**

Sample ID : **W51 - A**

Sampled: **5/31/2018 4:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>117</b>	µg/L	0.500	1	06/06/18 22:30	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 22:30	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89059**

Matrix: **Aqueous**

Sample ID : **W52 - A**

Sampled: **5/31/2018 4:47**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>98.2</b>	µg/L	0.500	1	06/06/18 22:35	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 22:35	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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[www.waypointanalytical.com](http://www.waypointanalytical.com)

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89060**

Matrix: **Aqueous**

Sample ID : **W53 - A**

Sampled: **5/31/2018 4:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>120</b>	µg/L	0.500	1	06/06/18 22:38	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 22:38	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89061**

Matrix: **Aqueous**

Sample ID : **W54 - A**

Sampled: **5/31/2018 4:49**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>84.4</b>	µg/L	0.500	1	06/06/18 22:50	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 22:50	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89062**

Matrix: **Aqueous**

Sample ID : **W55 - A**

Sampled: **5/31/2018 4:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>116</b>	µg/L	0.500	1	06/06/18 22:53	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 22:53	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89063**

Matrix: **Aqueous**

Sample ID : **W56 - A**

Sampled: **5/31/2018 4:53**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>108</b>	µg/L	0.500	1	06/06/18 22:58	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 22:58	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89064**

Matrix: **Aqueous**

Sample ID : **W57 - A**

Sampled: **5/31/2018 4:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>224</b>	µg/L	0.500	1	06/06/18 23:03	CCR	EPA-200.8
Lead	<b>0.567</b>	µg/L	0.500	1	06/06/18 23:03	CCR	EPA-200.8

---

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



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89065**

Matrix: **Aqueous**

Sample ID : **W58 - A**

Sampled: **5/31/2018 4:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>281</b>	µg/L	0.500	1	06/06/18 23:08	CCR	EPA-200.8
Lead	<b>0.991</b>	µg/L	0.500	1	06/06/18 23:08	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89066**

Matrix: **Aqueous**

Sample ID : **W59 - A**

Sampled: **5/31/2018 4:57**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>33.3</b>	µg/L	0.500	1	06/06/18 23:13	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 23:13	CCR	EPA-200.8

---

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



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89067**

Matrix: **Aqueous**

Sample ID : **W60 - A**

Sampled: **5/31/2018 4:58**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>33.7</b>	µg/L	0.500	1	06/06/18 23:16	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 23:16	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

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Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89068**

Matrix: **Aqueous**

Sample ID : **W61 - A**

Sampled: **5/31/2018 4:59**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>19.0</b>	µg/L	0.500	1	06/06/18 23:20	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 23:20	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89069**

Matrix: **Aqueous**

Sample ID : **W62 - A**

Sampled: **5/31/2018 5:03**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>18.2</b>	µg/L	0.500	1	06/06/18 23:23	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 23:23	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Information : Atlanta, GA  
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Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89070**

Matrix: **Aqueous**

Sample ID : **W63 - A**

Sampled: **5/31/2018 5:04**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>19.1</b>	µg/L	0.500	1	06/06/18 23:27	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 23:27	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89071**

Matrix: **Aqueous**

Sample ID : **W64 - A**

Sampled: **5/31/2018 5:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>18.9</b>	µg/L	0.500	1	06/06/18 23:38	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 23:38	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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[www.waypointanalytical.com](http://www.waypointanalytical.com)

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Report Date : 06/07/2018

Received : 6/1/2018

Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89072**

Matrix: **Aqueous**

Sample ID : **W65 - A**

Sampled: **5/31/2018 5:06**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>24.2</b>	µg/L	0.500	1	06/06/18 23:42	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 23:42	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89073**

Matrix: **Aqueous**

Sample ID : **W66 - A**

Sampled: **5/31/2018 5:08**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>25.4</b>	µg/L	0.500	1	06/06/18 23:45	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 23:45	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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[www.waypointanalytical.com](http://www.waypointanalytical.com)

23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89074**

Matrix: **Aqueous**

Sample ID : **W67 - A**

Sampled: **5/31/2018 5:09**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>25.7</b>	µg/L	0.500	1	06/06/18 23:49	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/06/18 23:49	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
Information : Atlanta, GA  
Project # 18000-18861

Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89075**

Matrix: **Aqueous**

Sample ID : **W68 - A**

Sampled: **5/31/2018 5:11**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>39.5</b>	µg/L	0.500	1	06/06/18 23:52	CCR	EPA-200.8
Lead	<b>1.44</b>	µg/L	0.500	1	06/06/18 23:52	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Project # 18000-18861

Report Date : 06/07/2018

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89076**

Matrix: **Aqueous**

Sample ID : **W69 - A**

Sampled: **5/31/2018 5:12**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>55.7</b>	µg/L	0.500	1	06/07/18 00:26	CCR	EPA-200.8
Lead	<b>0.745</b>	µg/L	0.500	1	06/07/18 00:26	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

Project      CCPS: Northcutt ES  
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Report Date : 06/07/2018  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89077**

Matrix: **Aqueous**

Sample ID : **W70 - A**

Sampled: **5/31/2018 5:14**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>90.5</b>	µg/L	0.500	1	06/07/18 00:29	CCR	EPA-200.8
Lead	<b>1.48</b>	µg/L	0.500	1	06/07/18 00:29	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89078**

Matrix: **Aqueous**

Sample ID : **W71 - A**

Sampled: **5/31/2018 5:17**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>136</b>	µg/L	0.500	1	06/07/18 00:33	CCR	EPA-200.8
Lead	<b>2.38</b>	µg/L	0.500	1	06/07/18 00:33	CCR	EPA-200.8

---

Qualifiers/  
Definitions

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MQL

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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89079**

Matrix: **Aqueous**

Sample ID : **W72 - A**

Sampled: **5/31/2018 5:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>151</b>	µg/L	0.500	1	06/07/18 00:38	CCR	EPA-200.8
Lead	<b>2.69</b>	µg/L	0.500	1	06/07/18 00:38	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

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23169

GLE Associates  
Ms. Katrina Riley  
1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
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Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89080**

Matrix: **Aqueous**

Sample ID : **W73 - A**

Sampled: **5/31/2018 5:18**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>163</b>	µg/L	0.500	1	06/07/18 00:43	CCR	EPA-200.8
Lead	<b>3.67</b>	µg/L	0.500	1	06/07/18 00:43	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89081**

Matrix: **Aqueous**

Sample ID : **W74 - A**

Sampled: **5/31/2018 5:19**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>36.5</b>	µg/L	0.500	1	06/07/18 00:48	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/07/18 00:48	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



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23169

GLE Associates

Ms. Katrina Riley

1100 Spring St, NW<sup>2</sup>Suite 820

Suite 820

Atlanta , GA 30309

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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89082**

Matrix: **Aqueous**

Sample ID : **W75 - A**

Sampled: **5/31/2018 5:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>0.654</b>	µg/L	0.500	1	06/07/18 00:51	CCR	EPA-200.8
Lead	<0.500	µg/L	0.500	1	06/07/18 00:51	CCR	EPA-200.8

---

Qualifiers/  
Definitions

DF

Dilution Factor

MQL

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23169

GLE Associates  
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1100 Spring St, NW<sup>2</sup>Suite 820  
Suite 820  
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Andrea R. Brownfield  
Project manager

Report Number : **18-152-0247**

**REPORT OF ANALYSIS**

Lab No : **89083**

Matrix: **Aqueous**

Sample ID : **W76 - A**

Sampled: **5/31/2018 5:23**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Copper	<b>32.3</b>	µg/L	0.500	1	06/07/18 00:54	CCR	EPA-200.8
Lead	<b>2.43</b>	µg/L	0.500	1	06/07/18 00:54	CCR	EPA-200.8

---

**Qualifiers/  
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

## Quality Control Data

**Client ID:** GLE Associates  
**Project Description:** CCPS: Northcutt ES  
**Report No:** 18-152-0247

<b>QC Prep:</b>	L384321	<b>QC Analytical Batch(es):</b>	L384638,L384838
<b>QC Prep Batch Method:</b>	EPA-200.8	<b>Analysis Method:</b>	EPA-200.8
		<b>Analysis Description:</b>	Metals Analyses

<b>Lab Reagent Blank</b>	LRB-L384321	Matrix: AQU
--------------------------	-------------	-------------

Associated Lab Samples: 89010, 89011, 89012, 89013, 89014, 89015

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	06/05/18 13:50
Lead	µg/L	< 0.500	0.500	06/05/18 02:21

<b>Laboratory Control Sample</b>	LCS-L384321
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Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	49.0	97.5	85-115
Lead	µg/L	50.3	51.0	101	85-115

<b>Matrix Spike &amp; Matrix Spike Duplicate</b>	L 89015-MS-L384321	L 89015-MSD-L384321
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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	58.8	50.3	50.3	107	104	95.9	89.9	70-130	2.8	20.0
Lead	µg/L	< 0.503	50.3	50.3	44.8	51.6	89.1	103	70-130	14.1	20.0

### Quality Control Data

**Client ID:** GLE Associates  
**Project Description:** CCPS: Northcutt ES  
**Report No:** 18-152-0247

<b>QC Prep:</b>	L384322	<b>QC Analytical Batch(es):</b>	L384639,L384839
<b>QC Prep Batch Method:</b>	EPA-200.8	<b>Analysis Method:</b>	EPA-200.8
		<b>Analysis Description:</b>	Metals Analyses

<b>Lab Reagent Blank</b>	LRB-L384322	Matrix: AQU
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Associated Lab Samples: 89016, 89017, 89018, 89019, 89020, 89021, 89022, 89023, 89024, 89025, 89026, 89027, 89028, 89029, 89030, 89031

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	06/05/18 14:49
Lead	µg/L	< 0.500	0.500	06/05/18 04:12

<b>Laboratory Control Sample</b>	LCS-L384322
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Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	49.9	99.3	85-115
Lead	µg/L	50.3	52.0	103	85-115

<b>Matrix Spike &amp; Matrix Spike Duplicate</b>	L 89035-MS-L384322	L 89035-MSD-L384322
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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	28.7	50.3	50.3	77.1	73.9	96.3	89.9	70-130	4.2	20.0
Lead	µg/L	< 0.503	50.3	50.3	52.6	51.3	105	102	70-130	2.5	20.0

### Quality Control Data

**Client ID:** GLE Associates  
**Project Description:** CCPS: Northcutt ES  
**Report No:** 18-152-0247

QC Prep:	L384323	QC Analytical Batch(es):	L384839
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L384323	Matrix: AQU
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Associated Lab Samples: 89036, 89037, 89038, 89039, 89040, 89041, 89042, 89043, 89044, 89045, 89046, 89047, 89048, 89049, 89050, 89051

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	06/05/18 15:37
Lead	µg/L	< 0.500	0.500	06/05/18 15:37

Laboratory Control Sample	LCS-L384323
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Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	49.1	97.7	85-115
Lead	µg/L	50.3	49.9	99.3	85-115

Matrix Spike & Matrix Spike Duplicate	L 89055-MS-L384323	L 89055-MSD-L384323
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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	47.5	50.3	50.3	94.3	94.4	93.1	93.3	70-130	0.1	20.0
Lead	µg/L	0.673	50.3	50.3	52.1	50.7	102	99.5	70-130	2.7	20.0

### Quality Control Data

**Client ID:** GLE Associates  
**Project Description:** CCPS: Northcutt ES  
**Report No:** 18-152-0247

<b>QC Prep:</b>	L384324	<b>QC Analytical Batch(es):</b>	L384995
<b>QC Prep Batch Method:</b>	EPA-200.8	<b>Analysis Method:</b>	EPA-200.8
		<b>Analysis Description:</b>	Metals Analyses

<b>Lab Reagent Blank</b>	LRB-L384324	Matrix: AQU
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Associated Lab Samples: 89056, 89057, 89058, 89059, 89060, 89061, 89062, 89063, 89064, 89065, 89066, 89067, 89068, 89069, 89070, 89071

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	06/06/18 22:16
Lead	µg/L	< 0.500	0.500	06/06/18 22:16

<b>Laboratory Control Sample</b>	LCS-L384324
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Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	45.8	91.1	85-115
Lead	µg/L	50.3	52.7	105	85-115

<b>Matrix Spike &amp; Matrix Spike Duplicate</b>	L 89075-MS-L384324	L 89075-MSD-L384324
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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	39.5	50.3	50.3	85.1	81.8	90.7	84.1	70-130	3.9	20.0
Lead	µg/L	1.44	50.3	50.3	55.0	54.7	107	106	70-130	0.5	20.0

## Quality Control Data

**Client ID:** GLE Associates  
**Project Description:** CCPS: Northcutt ES  
**Report No:** 18-152-0247

QC Prep:	L384928	QC Analytical Batch(es):	L384995
QC Prep Batch Method:	EPA-200.8	Analysis Method:	EPA-200.8
		Analysis Description:	Metals Analyses

Lab Reagent Blank	LRB-L384928	Matrix: AQU
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Associated Lab Samples: 89076, 89077, 89078, 89079, 89080, 89081, 89082, 89083

Parameter	Units	Blank Result	MQL	Analyzed
Copper	µg/L	< 0.500	0.500	06/07/18 00:11
Lead	µg/L	< 0.500	0.500	06/07/18 00:11

Laboratory Control Sample	LCS-L384928
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Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Copper	µg/L	50.3	44.9	89.3	85-115
Lead	µg/L	50.3	53.7	107	85-115

Matrix Spike & Matrix Spike Duplicate	L 89083-MS-L384928	L 89083-MSD-L384928
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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	32.3	50.3	50.3	76.0	76.1	86.9	87.1	70-130	0.1	20.0
Lead	µg/L	2.43	50.3	50.3	54.4	56.9	103	108	70-130	4.4	20.0

### Cooler Receipt Form

Customer Number: **23169**

Customer Name: **GLE Associates**

Report Number: **18-152-0247**

#### 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

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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 <b>GLE</b>		Client Project Manager/Contact <b>Katrina Riley</b> , Attached, 6A		Billing Information 1100 Spruce Street, 820		For Laboratory Use Only		
Project Description <b>Pb and Cu</b>		Project/Site Location (City/State) <b>Northcutt ES</b>		<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed  <input type="checkbox"/> Other		Met <input type="checkbox"/> <input type="checkbox"/>		
Project Number <b>18000-18861</b>		Project Manager Phone # <b>404-373-3844</b>		Project Manager Email <b>kirley@gleassociates.com</b> <b>hamilton@gleassociates.com</b>		Purchase Order Number		
Project Number <b>18000-18861</b>		Project Manager Phone # <b>404-373-3844</b>		(Grab or Composite) <b>260-8-262</b>		Site/Facility ID # <b>Northcutt ES</b>		
Project Number <b>18000-18861</b>		Project Manager Phone # <b>404-373-3844</b>		Matrix (Refer to Key)  Unless noted, all containers per Table II of 40 CFR Part 136.		Comments/Notes		
Date	Time	Sample Identification		Number of Containers		Required Analysis / Preservative		
051311b	0325	W1-A		DN 6 HNO <sub>3</sub> HNO <sub>3</sub>		DWF RM 91		
	0325	W2-A				DW RM 91		
	0327	W3-A				DWF RM 98		
	0327	W4-A				DW RM 98		
	0330	W5-A				DWF RM 99		
	0330	W6-A				DW RM 100		
	0333	W7-A				DW RM 100		
	0333	W8-A				DW RM 100		
	0334	W9-A				F(Right) 3rd grade, HW near bathroo		
	0336	W10-A				F(Left) 3rd grade, HW near bathroo		
Sampled by (Name - Print) <b>Katrina Riley</b> Relinquished by: (SIGNATURE) <b>Katrina Riley</b>								
Client Remarks/Comments								
Ice <input checked="" type="checkbox"/>	Custody Seals <input checked="" type="checkbox"/>	Lab Comments		Date	Time	Received by: (SIGNATURE)	Date	Time
Blank/Cooler Temp <b>N/A</b>				05/31/18	10:33	<b>Hilary Anez</b>	5/31/18	10:33
				Date	Time	Received by: (SIGNATURE)	Date	Time
				5/31/18	15:00	<b>FedEx</b>	5/31/18	15:00
				Date	Time	Received by: (SIGNATURE)	Date	Time
						<b>M</b>		

815

Client Name/Address		Client Project Manager/Contact		Billing Information	
	Katrina Riley Project Description	1100 Spruce Street, 820 Atlanta, GA Project/Site Location (City/State)		18-152-0247 23169 10:59:03	
Po and Co	Project Number	Northcutt ES Atlanta, GA Project Manager Phone #	Project Manager Email	RUSH - Additional charges apply Special Detection Limit(s) Date Results Needed	Method of <input type="checkbox"/> Fed Ex <input type="checkbox"/> Courier Other
18000-18861	18000-18861	404-373-3844	Kriley@gleassociates.com	Purchase Order Number	Site/Facility ID #
<b>Waypoint</b> 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.	(G)rab or (C)omposite Matrix (Refer to Key)	Required Analysis / Preservative	Comments/Notes
Date	Time	Sample Identification	3 800.8 Pb 800.8 C	DN G HNO <sub>3</sub> HNO <sub>3</sub> DN 6 HNO <sub>3</sub> HNO <sub>3</sub> DN 12-A DN 13-A DN 14-A DN 15-A DN 16-A DN 17-A DN 18-A DN 19-A DN 20-A	f near room 104 f near room 103 f near room 108 f near room 107 f near room 111 DN UC Workroom f near administrative office DN Admin offices workroom DN F RM 115 DN RM 115
05/31/18	08450	W11-A			
0341		W12-A			
0343		W13-A			
0344		W14-A			
0346		W15-A			
0349		W16-A			
0353		W17-A			
0355		W18-A			
0357		W19-A			
0358		W20-A			
For Laboratory Use Only					
Ice	Custody Seals	Lab Comments			
	Y/N				
Blank/Cooler Temp		5/1/18 15:00			
N/A		5/1/18 15:00			
Relinquished by: (SIGNATURE)		Riley		Date	Time
		John		5/31/18	10:33
Relinquished by: (SIGNATURE)		Hector		Date	Time
		Hector		5/31/18	10:33
Relinquished by: (SIGNATURE)		John		Date	Time
		John		5/31/18	15:00
Relinquished by: (SIGNATURE)		Hector		Date	Time
		Hector		5/31/18	15:00
Safeguard LTH0 USA Form No. 811-2/E15CS000385 07/15					

## For Laboratory Use Only

Client Name/Address <b>GLE</b>		Client Project Manager/Contact <b>Katrina Riley</b>		Billing Information 1100 Spring Street, 800 Atlanta, GA		For Laboratory Use Only	
Project Description <b>Pb and Cu</b>		Project/Site Location (City/State) <b>Northcutt ES</b>		RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed		Method <input type="checkbox"/> Fe <input type="checkbox"/> Co <input type="checkbox"/> Other	
Project Number <b>18000-18861</b>		Project Manager Phone # <b>404-373-3844</b>		Project Manager Email <b>Kriley@gleassociates.com</b>		Purchase Order Number	
<b>Waypoint</b> 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.		(Grab or (C)omposite Matrix (Refer to Key))		Required Analysis / Preservative	
Date	Time	Sample Identification				Comments/Notes	
05/31/18	0402	W21-A		DN	6 HNO <sub>3</sub> HNO <sub>3</sub>	DWF RM 117	
	0402	W22-A				DN RU 117	
	0404	W23-A				DWF RU 116	
	0404	W24-A				DN RU 116	
	0406	W25-A				DWF RM 118	
	0406	W26-A				DWF RM 119	
	0408	W27-A				DN RM 119	
	0408	W28-A				DWF RM 121	
	0410	W29-A				DN RM 121	
	0410	W30-A				DN RM 121	
For Laboratory Use Only							
Ice <input checked="" type="checkbox"/>	Custody Seals <input checked="" type="checkbox"/>	Lab Comments		Sampled by (Name - Print) <b>Katrina Riley</b>			
Relinquished by: (SIGNATURE) <b>Han</b>		Date	Time	Received by: (SIGNATURE) <b>Hebo J. Moore</b>		Date	Time
Relinquished by: (SIGNATURE) <b>Hanbo Juec</b>		5/31/18	10:33	Received by: (SIGNATURE) <b>Hebo J. Moore</b>		5/31/18	10:33
Relinquished by: (SIGNATURE) <b>Hanbo Juec</b>		5/31/18	15:00	Received by: (SIGNATURE) <b>Hebo J. Moore</b>		5/31/18	15:00
Blank/Cooler Temp <b>101.4</b>		Date	Time	Received by: (SIGNATURE) <b>Hebo J. Moore</b>			

## For Laboratory Use Only

Client Name/Address <b>GLE</b>		Client Project Manager/Contact Katherine Riley		Billing Information 1100 Spring Street, 820		For Laboratory Use Only	
Project Description Pb and Cu		Project/Site Location (City/State) Northcutt ES Atlanta, GA		<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed		<input type="checkbox"/> Metho <input type="checkbox"/> Fe <input type="checkbox"/> Cc <input type="checkbox"/> Cc  OI	
Project Number 18000-18861	Project Manager Phone # 404-373-3844	Project Manager Email kiley@gleassociates.com		Purchase Order Number		Site/Facility ID #	Northcutt ES
<b>Waypoint</b> 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.		(G)rab or (C)omposite Matrix (Refer to Key)		Comments/Notes	
Date	Time	Sample Identification		Required Analysis / Preservative			
05/31/18	0412	W31-A		DN	C HNO <sub>3</sub>	DN F RM 130	
0412		W32-A				DN RM 130	
0415		W33-A				DN F RM 130	
0415		W34-A				DN RM 130	
0418		W35-A				DN F RM 131	
0418		W36-A				DN RM 131	
0421		W37-A				DN F RM 201	
0421		W38-A				DN RM 201	
0423		W39-A				DN F RM 133	
0423		W40-A				DN RM 133	
		For Laboratory Use Only		Sampled by (Name - Print) Katherine Riley		Client Remarks/Comments <i>Do not analyze for clients request</i>	
Ice Y/N	Custody Seals Y/N	Lab Comments		Relinquished by: (SIGNATURE) Kathy		Date 05/31/18	Time 10:33
Blank/Cooler Temp N/A				Relinquished by: (SIGNATURE) Hiboo Andez		Date 5/31/18	Time 15:00
				Received by: (SIGNATURE) Fedor		Date 5/31/18	Time 15:00
				Received by: (SIGNATURE) Ce		Date Ce 11/18	Time 815

# For Laboratory Use Only

Client Name/Address <i>Bill</i>	Client Project Manager/Contact <i>Katrina Kilby</i>	Billing Information 1100 Spring Street 820	For Laboratory Use Only		
Project Description <i>Oil</i>	Project/Site Location (City/State) <i>Northcutt ES</i>	RUSH – Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed	Method <input type="checkbox"/> Fed <input type="checkbox"/> Cou	GLE Associates CCPS: Northcutt ES	
Project Number <i>18000-18861</i>	Project Manager Phone # <i>404-373-3844</i>	Project Manager Email <i>kriley@glasassociates.com</i>	Purchase Order Number <i>200.88</i>	Site/Facility ID # <i>Northcutt ES</i>	
Number of Containers Unless noted, all containers per Table II of 40 CFR Part 136.	Date	Time	Sample Identification	Required Analysis / Preservative	Comments/Notes
05/31/18	0425		<i>W41-A</i>	DNF RM 132	
	0425		<i>W42-A</i>	DNF RM 132	
	0428		<i>W43-A</i>	DNF RM 134	
	0428		<i>W44-A</i>	DNF RM 134	
	0430		<i>W45-A</i>	DNF RM 202	
	0430		<i>W46-A</i>	DNF RM 135	
	0431		<i>W47-A</i>	<del>F</del> DNF RM 135	
	0431		<i>W48-A</i>	DNF RM 135	
	0433		<i>W49-A</i>	<i>F K Hallway near room 135</i>	
	0437		<i>W50-A</i>	<i>F Gym</i>	
Client Remarks/Comments <i>Katrina Kilby</i>					
Ice <input checked="" type="checkbox"/>	Custody Seals <input checked="" type="checkbox"/>	Lab Comments <i>y/n</i>	Sampled by (Name—Print)		
Relinquished by: (Signature) <i>Bill</i>					
Relinquished by: (Signature) <i>Katrina Kilby</i>					
Blank/Cooler Temp <i>N/A</i>					

**Waypoint**  
ANALYTICAL

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

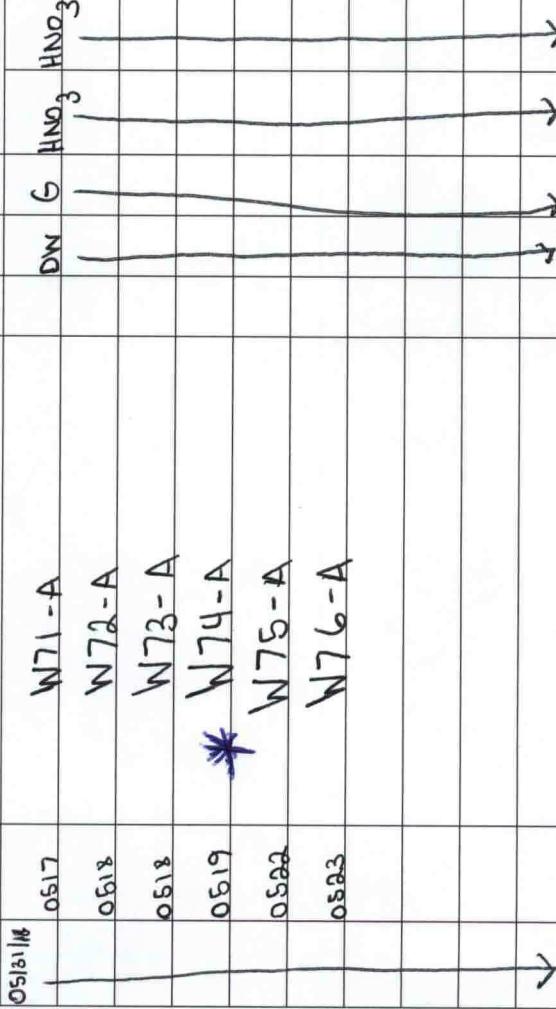
## For Laboratory Use Only

Client Name/Address <i>PLT</i>	Client Project Manager/Contact <i>Katrina Kirby</i>	Billing Information		For Laboratory Use Only			
		<i>100 Springs St</i>	<i>820</i>	<i>Northcutt ES</i>	<i>Atlanta, GA</i>	<i>18-152-0247</i>	<i>23169</i>
Project Description		<input type="checkbox"/> RUSH - Additional charges apply	<input type="checkbox"/> Special Detection Limit(s)	Methanol	<input type="checkbox"/> Ferrous	<input type="checkbox"/> GLE Associates	<i>er-Oil</i>
		<input type="checkbox"/> Date Results Needed	<input type="checkbox"/> Other	<input type="checkbox"/> Carbon	<input type="checkbox"/> Chloride	<input type="checkbox"/> CCPS: Northcutt ES	
Project Number <i>1000-18861</i>	Project Manager Phone # <i>404 373 3844</i>	Project Manager Email <i>kat Kirby@gleassociates.com</i>	Purchase Order Number	Site/Facility ID # <i>Northcutt ES</i>			
		<i>200.8</i>	<i>200.8</i>	A Cool < 10°C Na2S2O3 (Micro Only)	B Cool < = 6°C	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 < = 6°C Na2S2O3	J	K	L
Date	Time	Sample Identification	Required Analysis / Preservative	Comments/Notes			
05/31/18	0447	<i>W51-A</i>	<i>DNF 8M 140</i>				
	0447	<i>W52-A</i>	<i>DN 8M 140</i>				
	0449	<i>W53-A</i>	<i>DNF Rev 141</i>				
	0449	<i>W54-A</i>	<i>DN 8M 141</i>				
	0453	<i>W55-A</i>	<i>DNF 8M 138</i>				
	0453	<i>W56-A</i>	<i>DN 8M 138</i>				
	0455	<i>W57-A</i>	<i>DNF 8M 139</i>				
	0455	<i>W58-A</i>	<i>DN 8M 139</i>				
	0457	<i>W59-A</i>	<i>(05/31) F 5th grade HW bathroom</i>				
	0458	<i>W60-A</i>	<i>(05/31) 5th grade HW bathroom</i>				
Sampled by (Name - Print) <i>John B. L.</i>				Client Remarks/Comments			
For Laboratory Use Only				Relinquished by: (SIGNATURE) <i>John B. L.</i>	Date	Time	Received by: (SIGNATURE) <i>Howard Aver</i>
Ice <input checked="" type="checkbox"/>	Custody Seals <input checked="" type="checkbox"/>	Lab Comments		5/31/18 10:33			5/31/18 10:33
Blank/Cooler Temp <i>101.4</i>			Relinquished by: (SIGNATURE) <i>John B. L.</i>	Date	Time	Received by: (SIGNATURE) <i>FedEx</i>	
			5/31/18 15:00			5/31/18 15:00	
			Relinquished by: (SIGNATURE) <i>John B. L.</i>	Date	Time	Received by: (SIGNATURE) <i>John B. L.</i>	
			5/31/18 15:00			5/31/18 15:00	

## For Laboratory Use Only

Client Name/Address <i>Bill</i>		Client Project Manager/Contact <i>Katrina Kilby</i>		Billing Information 1100 Spring Street 820		For Laboratory Use Only	
Project Description Northcutt ES		Project/Site Location (City/State) Atlanta, GA		Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> Courier <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed			
Project Number 18000-188601		Project Manager Phone # 404-373-3844		Project Manager Email <i>Kilby@gleassociates.com</i>		Purchase Order Number 200-8-001 200-8-002	
Number of Containers Unless noted, all containers per Table II of 40 CFR Part 136.		(g)rab or (C)omposite Matrix (Refer to Key)		Required Analysis / Preservative		Comments/Notes	
Date	Time	Sample Identification					
05/31/18	04:59	W61-A		Dul 6 HNO <sub>3</sub> HNO <sub>3</sub>		F near room 122	
	05:03	W62-A				F near room 126	
	05:04	W63-A				F near room 129	
	05:06	W64-A				DNF Cafeteria (right) bottle filler cafeteria (left)	
	05:08	W65-A				DNF Cafeteria (left)	
	05:09	W66-A				Bottle filler cafeteria (right) (right) near entrance to DNF north wall kitchen	
	05:11	W67-A				DNF south wall exit sign	
	05:12	W68-A				DNF 3 North wall near exit sign	
	05:14	W69-A					
	05:14	W70-A					
Sampled by (Name - Print) <i>Jennifer Kilby</i>							
Client Remarks/Comments							
Ice	Custody Seals <i>y/n</i>	Lab Comments		Received by: (SIGNATURE) <i>Hibbs</i>		Date	Date Time 5/31/18 10:32
Blank/Cooler Temp <i>104 F</i>				Received by: (SIGNATURE) <i>Hibbs</i>		Date	Date Time 5/31/18 15:00
				Received by: (SIGNATURE) <i>J. Anez</i>		Date	Date Time 5/31/18 15:15

**For Laboratory Use Only**

Client Name/Address <b>GLE</b>		Client Project Manager/Contact <b>Katrina Riley</b> , 6A		Billing Information 1100 Spring Street, 820		<b>For Laboratory Use Only</b>	
Project Description <b>Project Number</b> 18000 - 18861		Project/Site Location (City/State) <b>Northcutt ES</b>		<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed		Method of <input type="checkbox"/> Fed Ex <input type="checkbox"/> Courier  Other	
Project Manager Phone # <b>404 - 373 - 3844</b>		Project Manager Email <b>kriley@gleassociates.com</b>		Purchase Order Number		Site/Facility ID # <b>Northcutt ES</b>	
Waypoint <sup>®</sup> 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.		Required Analysis / Preservative Matrix (Refer to Key) Grab or Composite		Comments/Notes DN4 West Wall (furthest right) DN5 West Wall (middle) DN6 West Wall (furthest left) Steamer Kitchen ICE Kitchen (lect.) Near entrance DN6 North wall to kitchen.	
Date <b>05/31/16</b>	Time	Sample Identification					
<b>0517</b>		<b>W71-A</b>		<b>DN</b>	<b>G HNO<sub>3</sub></b>		
<b>0518</b>		<b>W72-A</b>					
<b>0518</b>		<b>W73-A</b>					
<b>0519</b>		<b>W74-A</b>					
<b>0522</b>		<b>W75-A</b>					
<b>0523</b>		<b>W76-A</b>					
							
<b>For Laboratory Use Only</b>							
Ice <b>Y/N</b>	Custody Seals <b>Y/N</b>	Lab Comments		Sampled by (Name - Print) <b>Katrina Riley</b>			
Relinquished by: (SIGNATURE) <b>Heidi Aver</b>		Received by: (SIGNATURE) <b>Heidi Aver</b>		Date <b>05/31/16</b>	Time <b>11:33</b>	Date <b>05/31/16</b>	Time <b>10:33</b>
Relinquished by: (SIGNATURE) <b>Heidi Aver</b>		Received by: (SIGNATURE) <b>Heidi Aver</b>		Date <b>05/31/16</b>	Time <b>15:00</b>	Date <b>05/31/16</b>	Time <b>15:00</b>

**Danyale Love - GLE - Northcutt ES**

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**From:** Andrea Brownfield  
**To:** Login  
**Date:** 5/31/2018 2:26 PM  
**Subject:** GLE - Northcutt ES

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Hi All:

Per client - On the chain of custody for GLE - Northcutt ES there is an asterisk near samples W37-A, W38-A and W74-A that advises *not to sample per clients request*. Sample W74-A (Steamer) is okay to analyze for lead and copper. Please do not perform lead and copper analysis for samples W37-A and W38-A per clients request.

Also, she said that some of the labels for samples received today had the wrong project name on them - their error in the field. Sample IDs and COCs are correct though.

Thank you!



**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](mailto:lynne.grubb@dnr.ga.gov) or Sean Earley at [sean.earley@dnr.ga.gov](mailto:sean.earley@dnr.ga.gov).

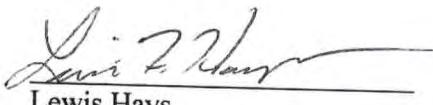
1. Copies of the most current on-site and accepted corrective actions
2. Copies of the scope of accreditation listing analytes

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](mailto:rmedina@waypointanalytical.com).

Respectfully,

Dr. Richard Medina  
Chief Quality Officer

## **APPENDIX C**

### **Sampling Plan**

