



October 9, 2017

**Via E-Mail: Joshua\_I\_williams@dekalbschoolsga.org**

Mr. Joshua L. Williams, MBA, MSM, PMP  
Chief Operations Officer  
DeKalb County School District  
Operations Division  
Sam Moss Service Center  
1780 Montreal Road  
Tucker, Georgia 30084

**Re: Summary of Additional Lead in Drinking Water Sample Results  
Old Rock Gym—Champion Middle School (Facility ID #9012)  
5265 Mimosa Drive, Stone Mountain, Georgia 30083  
AEM Project No. 1561-1601**

Dear Mr. Williams:

Atlanta Environmental Management, Inc. (AEM) is pleased to provide the DeKalb County School District (DCSD) an electronic copy of the Lead in Drinking Water Sample Results for Old Rock Gym Facility (Facility ID #9012). Additional drinking water samples from select source units were collected on September 22, 2017, and analytical results were received from Analytical Environmental Services, Inc., on October 5, 2017.

## **FINDINGS**

### ***Sample Results of Previously Identified Source Units That Exceeded 15 ppb***


During the initial sampling event on December 6, 2016, one source unit was sampled and the analytical results indicated that the results were above EPA's action level of 15 ppb. DCSD replaced the source unit and AEM collected two drinking water samples on September 22, 2017. A description of the drinking water outlet sampled and a summary of sample analytical results are provided in Table 1.

None of the samples from the source unit had a drinking water sample result that contained lead at a concentration at or above EPA's action level of 15 ppb.

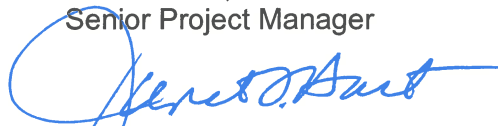
We appreciate your selection of AEM for this project. If you have any questions, please do not hesitate to contact us.

Sincerely,

**Atlanta Environmental Management, Inc.**



Leona Miles, CHMM  
Senior Project Manager



Janet T. Hart  
President

/krf

cc: Daniel Drake (DCSD)  
Tracee Hill (DCSD)  
Sandra Glenn (DeKalb County Watershed Management)  
Ryan Cira (DeKalb Board of Health)

Attachment: Table

**Table 1. Summary of Lead in Drinking Water Laboratory Analytical Retest Results**

**Old Rock Gym (Champion Middle School)**

5265 Mimosa Drive, Stone Mountain, GA 30083



Sample ID*/**	Sample Location Description	Sample Date & Time	Lead Test Results (ppb)
9012-092217-DF-001-A	Initial Draw Sample; Retest Single Elkay Drinking Fountain in Hallway near Gym; Wall-mounted	9/22/17 6:05 AM	3.61
9012-092217-DF-001-B	Flush Sample; Retest Single Elkay Drinking Fountain in Hallway near Gym; Wall-mounted	9/22/17 6:06 AM	4.52

**Notes:**

ppb-parts per billion

**Bold**-Exceeds 15 ppb--EPA's Action Level for Lead

\* Note--Where "A" and "B" are indicated, AEM collected two samples at each source area location: ("A") initial draw sample; and ("B") after a 30-second flush sample

\*\*The source unit was initially sampled on 12/6/16 and the initial results indicated that a concentration exceeded the EPA standard of 15 ppb. The source unit was replaced by DCSD and retesting was conducted. The above summarizes the retest results.



October 16, 2017

**Via E-Mail: Joshua\_I\_williams@dekalbschoolsga.org**

Mr. Joshua L. Williams, MBA, MSM, PMP  
Chief Operations Officer  
DeKalb County School District  
Operations Division  
Sam Moss Service Center  
1780 Montreal Road  
Tucker, Georgia 30084

**Re: Lead in Drinking Water Sampling Report  
Old Rock Gym—Champion Middle School (Facility ID #9012)  
5265 Mimosa Drive, Stone Mountain, Georgia 30083  
AEM Project No. 1561-1601**

Dear Mr. Williams:

Atlanta Environmental Management, Inc. (AEM) is pleased to provide the DeKalb County School District (DCSD) an electronic copy of the Final Technical Lead in Drinking Water Sampling Report for Old Rock Gym Facility (Facility ID #9012).

Initial sampling was conducted on December 6, 2016, and analytical results were received from Analytical Environmental Services, Inc., on December 20, 2016. Additional drinking water samples from select source units were collected on September 22, 2017, and analytical results were received from Analytical Environmental Services, Inc., on October 5, 2017.

## **FINDINGS**

### ***Initial Testing***

AEM collected eight drinking water samples from three sources at Old Rock Gym—Champion Middle School (Facility ID #9012), including two duplicate samples (see Figure 1). Samples were collected in accordance with the Water Sampling Methodology Protocol for DeKalb County School District, dated September 12, 2016. A copy of AEM's Field Sampling Notes is provided in Attachment A.

A description of the drinking water outlets sampled and a summary of sample analytical results are provided in Table 1. Note that a sample was not collected at the service connection entry into the building as this building is provided water from Champion Middle School. The service connection sample collected from Champion Middle School on December 2, 2016, had a concentration of lead less than EPA's action level of 15 parts per billion (ppb).

One of the sources sampled had a drinking water sample result that contained lead at a concentration at or above EPA's action level of 15 ppb. This source is indicated in bold and shaded font in the attached table. A copy of the AES laboratory analytical report is provided in Attachment B.

**Sample Results of Previously Identified Source Units That Exceeded 15 ppb**

During the initial sampling event on December 6, 2016, one source unit was sampled and the analytical results indicated that the results were above EPA's action level of 15 ppb. DCSD replaced the source unit and AEM collected two drinking water samples on September 22, 2017. A description of the drinking water outlet sampled and a summary of sample analytical results are provided in Table 1.

None of the samples from the source unit had a drinking water sample result that contained lead at a concentration at or above EPA's action level of 15 ppb. A copy of the AES laboratory analytical report is provided in Attachment B.

We appreciate your selection of AEM for this project. If you have any questions, please do not hesitate to contact us.

Sincerely,

**Atlanta Environmental Management, Inc.**



Leona Miles, CHMM  
Senior Project Manager



Janet T. Hart  
President

/krf

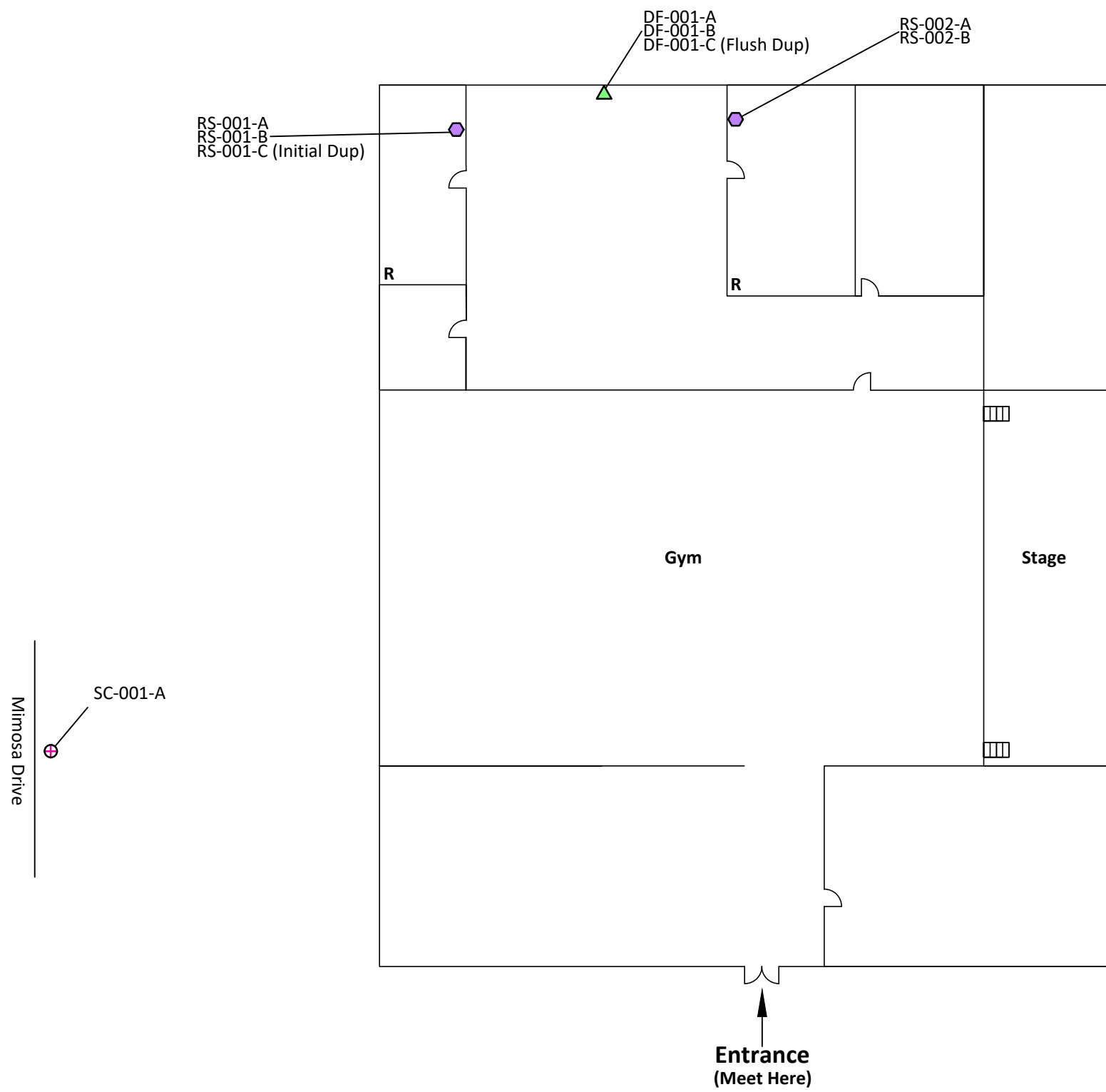
cc: Daniel Drake (DCSD)  
Tracee Hill (DCSD)


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# FIGURE

# Legend

- ▲ - Drinking Fountain (DF)
- - Restroom Sink (RS)
- ⊕ - Service Connection (SC)



 <b>Atlanta Environmental Management, Inc.</b> <small>Environmental Consulting, Engineering, Hydrogeologic Services</small> 2580 Northeast Expressway • Atlanta, Georgia 30345 Phone: 404.329.9006 • Fax: 404.329.2057		Client: DeKalb County School District Site Location: Old Rock Gym Facility (Champion Middle) (#9012) 5265 Mimosa Drive Stone Mountain, GA 30083	
PROJECT #:	1561-1601-9012	DATE:	October 11, 2017
DRAWN BY:	AL	REVISED:	----
CHECKED BY:	TR	SCALE:	NTS
PROJECT MGR:	LM	PRINTED:	10/11/2017 5:21 PM
<b>Sample Location Plan</b>			Figure <b>1</b>
G:\DWG\1561-1601 DeKalb County Schools\9012\9012			

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# TABLE



**Table 1. Summary of Lead in Drinking Water Laboratory Analytical Results  
Old Rock Gym (Champion Middle School)  
5265 Mimosa Drive, Stone Mountain, GA 30083**



Sample ID*	Sample Location Description	Sample Date & Time	Lead Test Results (ppb)
9012-120616-DF-001-A	Initial Draw Sample; Single Elkay Drinking Fountain in Hallway near Gym; Wall-mounted	12/06/16 4:55 AM	<b>16.5</b>
9012-120616-DF-001-B	Flush Sample; Single Elkay Drinking Fountain in Hallway near Gym; Wall-mounted	12/06/16 4:56 AM	12.1
9012-120616-DF-001-C	Flush Duplicate Sample; Single Elkay Drinking Fountain in Hallway near Gym; Wall-mounted	12/06/16 4:57 AM	12.0
9012-092217-DF-001-A	Initial Draw Sample; Retest Single Elkay Drinking Fountain in Hallway near Gym; Wall-mounted	9/22/17 6:05 AM	3.61
9012-092217-DF-001-B	Flush Sample; Retest Single Elkay Drinking Fountain in Hallway near Gym; Wall-mounted	9/22/17 6:06 AM	4.52
9012-120616-RS-001-A	Initial Draw Sample; Only Sink in Boy's RR; Slow Drip on Arrival	12/06/16 5:00 AM	1.83
9012-120616-RS-001-B	Flush Sample; Only Sink in Boy's RR; Slow Drip on Arrival	12/06/16 5:02 AM	None Detected
9012-120616-RS-001-C	Initial Duplicate Sample; Only Sink in Boy's RR; Slow Drip on Arrival	12/06/16 5:01 AM	1.88
9012-120616-RS-002-A	Initial Draw Sample; Right Sink Farthest from the Door in Girl's RR	12/06/16 5:05 AM	1.57
9012-120616-RS-002-B	Flush Sample; Right Sink farthest from the Door in the Girl's RR	12/6/16 5:06 AM	None Detected
9012-120616-SC-001-A	No Service Connection port available; Building water is fed by the service connection line from Champion Middle School which was sampled on 12/2/16 and sample results were less than 15ppb	NA	NA

**Notes:**

ppb-parts per billion

**Bold**-Exceeds 15 ppb--EPA's Action Level for Lead

\* Note--Where "A" and "B" are indicated, AEM collected two samples at each source area location: ("A") initial draw sample; and ("B") after a 30-second flush sample

NA-Not Applicable

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**ATTACHMENT A**  
**AEM Field Sampling Forms**

**DEKALB COUNTY SCHOOL DISTRICT  
LEAD IN DRINKING WATER FIELD DATA SHEET**

FACILITY NAME: OLD ROCK GYM FACILITY (CHAMPION MIDDLE)  
 ADDRESS: 5265 Mimosa Dr Stone Mtn, GA, 30083

FACILITY ID: 9012

DATE	TIME	SAMPLE ID (Facility ID-Date-Location Type-Sequential #-Sample Type)	NEAREST ROOM	LOCATION (circle)	DESCRIPTION	SAMPLER INIT.
12/6/16	0455	9012 - 120616 - DF-001-A	Gym	In room Hallway	Single Elkay wallmount	TR
12/6/16	0456	9012 - 120616 - DF-001-B	↓	In room Hallway	"	TR
12/6/16	0457	9012 - 120616 - DF-001-C		In room Hallway	Duplicate of B	TR
12/6/16	0500	9012 - 120616 - RS-001-A		Men's Restroom	In room Hallway	Only sink in RR; very slow drip
12/6/16	0502	9012 - 120616 - RS-001-B	↓	In room Hallway	"	TR
12/6/16	0501	9012 - 120616 - RS-001-C		In room Hallway	Duplicate of A	TR
12/6/16	0505	9012 - 120616 - RS-002-A		Women's Restroom	In room Hallway	Right sink (farthest from door)
12/6/16	0506	9012 - 120616 - RS-002-B	↓	In room Hallway	"	TR
12/6/16	—	9012 - 120616 - SC-001	X	In room Hallway	No service connection. Bldg fed by line from Champion	
12/6/16		9012 - 120616 -		In room Hallway	Middle per D. Davis of DCSD	

LOCATION TYPE: AF = athletic field; CS = cafeteria sink; DF = drinking fountain; IM = ice maker; KS = kindergarten sink; RS = restroom sink; SC = service connection; TL = teachers' lounge. SAMPLE TYPE: A = initial draw; B = flush; C = duplicate

**DEKALB COUNTY SCHOOL DISTRICT  
LEAD IN DRINKING WATER FIELD DATA SHEET**

FACILITY NAME: OLD ROCK GYM FACILITY (CHAMPION MIDDLE)  
 ADDRESS: 5265 Mimosa Dr Stone Mtn, GA, 30083

FACILITY ID: 9012

DATE	TIME	SAMPLE ID (Facility ID-Date-Location Type-Sequential #-Sample Type)	NEAREST ROOM	LOCATION (circle)	DESCRIPTION	SAMPLER INIT.
9/22/17	0605	9012 - 092217 - DF-001-A	outside boys + girls RR in back of gym	In room Hallway	Single Elkay WM DF	A7
9/22/17	0606	9012 - 092217 - DF-001-B	"	In room Hallway	"	A7
9/22/17		9012 - 092217 -		In room Hallway		
9/22/17		9012 - 092217 -		In room Hallway		
9/22/17		9012 - 092217 -		In room Hallway		
9/22/17		9012 - 092217 -		In room Hallway		
9/22/17		9012 - 092217 -		In room Hallway		
9/22/17		9012 - 092217 -		In room Hallway		
9/22/17		9012 - 092217 -		In room Hallway		
9/22/17		9012 - 092217 -		In room Hallway		

LOCATION TYPE: AF = athletic field; CS = cafeteria sink; DF = drinking fountain; IM = ice maker; KS = kindergarten sink; RS = restroom sink; SC = service connection; TL = teachers' lounge. SAMPLE TYPE: A = initial draw; B = flush; C = duplicate



ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: \_\_\_\_\_

Date: 9/22/17 Page 1 of 1

Form containing company information (Atlanta Environmental Management Inc), address (2580 Northeast Expressway NE), phone (404-329-9006), and a detailed table of samples with columns for sample ID, date, time, and analysis results. Includes sections for 'RELINQUISHED BY', 'RECEIVED BY', 'PROJECT INFORMATION', and 'SPECIAL INSTRUCTIONS/COMMENTS'.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water DW = Drinking Water W = Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

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**ATTACHMENT B**  
**AES Laboratory Analytical Report**

## Leona Miles

---

**From:** NoReply@aesatlanta.net  
**Sent:** Tuesday, December 20, 2016 1:55 PM  
**To:** leona-miles@aem-net.com; tim-royer@aem-net.com  
**Subject:** DCSD - 9012  
**Attachments:** 1612479\_REPORT.pdf; 1612479Invoice.pdf

Please see attached. If you have any questions or need further assistance please contact your project manager at 770-457-8177.

AES Reporting System

ANALYTICAL ENVIRONMENTAL SERVICES, INC.  
3080 Presidential Drive ATLANTA, GA 30340  
Tel: 770-457-8177 Fax: 770-457-8188  
<http://www.aesatlanta.com>

NOTICE OF CONFIDENTIALITY: The information in this email and / or attachments may be legally privileged and is confidential information intended for the use of the individual or entity named in the email address. If the reader of this message is not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copy of this email and / or attachments is strictly prohibited. If you have received this email in error, please notify Analytical Environmental Services Customer Service by telephone at (770) 457-8177 or by email at [info@aesatlanta.com](mailto:info@aesatlanta.com) <<mailto:info@aesatlanta.com>> and delete the message. Thank you



December 20, 2016

Leona Miles  
Atlanta Environmental Mgmt  
2580 NE Expressway  
Atlanta GA 30345

TEL: (404) 329-9006  
FAX: (404) 329-2057

RE: DCSD - 9012

Dear Leona Miles:

Order No: 1612479

Analytical Environmental Services, Inc. received 8 samples on 12/6/2016 9:18:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

- NELAC/Florida State Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, and Drinking Water Microbiology, effective 07/01/16-06/30/17.
- NELAC/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/16-06/30/17.
- NELAC/Texas Certificate No. T104704509-16-6 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 03/01/16-02/28/17.
- AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 09/01/17.

Ioana Pacurar  
Project Manager





ANALYTICAL ENVIRONMENTAL SERVICES, INC

3080 Presidential Drive, Atlanta GA 30340-3704

TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1012479

Date: 12/6/16 Page 1 of 1

COMPANY: <u>Atlanta Environmental Management (AEM)</u>		ADDRESS: <u>2580 Northeast Expy Atlanta, GA 30345</u>				ANALYSIS REQUESTED				Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.		No # of Containers
PHONE: <u>404 329 9006</u>		FAX: <u>404 329 2057</u>				PRESERVATION (See codes)				REMARKS		
SAMPLED BY: <u>Tim Royer</u>		SIGNATURE: <u>[Signature]</u>				I						
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)						
		DATE	TIME									
1	9012-120616-DF-001-A	12/6/16	0455	X		DW	X					1
2	9012-120616-DF-001-B	12/6/16	0456	X		DW	X					1
3	9012-120616-DF-001-C	12/6/16	0457	X		DW	X					1
4	9012-120616-RS-001-A	12/6/16	0500	X		DW	X					1
5	9012-120616-RS-001-B	12/6/16	0502	X		DW	X					1
6	9012-120616-RS-001-C	12/6/16	0501	X		DW	X					1
7	9012-120616-RS-002-A	12/6/16	0505	X		DW	X					1
8	9012-120616-RS-002-B	12/6/16	0506	X		DW	X					1
9												
10												
11												
12												
13												
14												

Total Pb (200.8)

RELINQUISHED BY <u>[Signature]</u>	DATE/TIME <u>12/6/17 9:18</u>	RECEIVED BY <u>Jermain Miley</u>	DATE/TIME <u>12/6/16 9:18 am</u>	PROJECT INFORMATION PROJECT NAME: <u>DCSD</u> PROJECT #: <u>1561-1601</u> SITE ADDRESS: <u>9012</u> SEND REPORT TO: <u>Leona Miles &amp; Tim Royer</u>		RECEIPT Total # of Containers	
SPECIAL INSTRUCTIONS/COMMENTS: <u>Preserve at lab per protocol.</u>				SHIPMENT METHOD OUT / / VIA: IN / / VIA: <input checked="checked" type="checkbox"/> CLIENT FedEx <input type="checkbox"/> UPS <input type="checkbox"/> MAIL <input type="checkbox"/> COURIER <input type="checkbox"/> GREYHOUND <input type="checkbox"/> OTHER		Turnaround Time Request <input type="checkbox"/> Standard 5 Business Days <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same Day Rush (auth req.) Other <u>10 biz days</u>	
				INVOICE TO: (IF DIFFERENT FROM ABOVE) <u>leona-miles@aem-net.com</u> <u>tim-royer@aem-net.com</u>		STATE PROGRAM (if any): E-mail? <input type="checkbox"/> Fax? <input type="checkbox"/> DATA PACKAGE: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.  
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

**Analytical Environmental Services, Inc**

**Date:** 20-Dec-16

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-120616-DF-001-A
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 12/6/2016 4:55:00 AM
<b>Lab ID:</b> 1612479-001	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>								
				<b>(E200.2)</b>				
Lead	16.5	1.00		ug/L	235100	1	12/19/2016 20:00	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 20-Dec-16

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-120616-DF-001-B
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 12/6/2016 4:56:00 AM
<b>Lab ID:</b> 1612479-002	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>					<b>(E200.2)</b>			
Lead	12.1	1.00		ug/L	235100	1	12/19/2016 20:17	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 20-Dec-16

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-120616-DF-001-C
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 12/6/2016 4:57:00 AM
<b>Lab ID:</b> 1612479-003	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>					<b>(E200.2)</b>			
Lead	12.0	1.00		ug/L	235100	1	12/19/2016 20:20	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 20-Dec-16

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-120616-RS-001-A
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 12/6/2016 5:00:00 AM
<b>Lab ID:</b> 1612479-004	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>					<b>(E200.2)</b>			
Lead	1.83	1.00		ug/L	235100	1	12/19/2016 20:24	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 20-Dec-16

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-120616-RS-001-B
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 12/6/2016 5:02:00 AM
<b>Lab ID:</b> 1612479-005	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>					<b>(E200.2)</b>			
Lead	BRL	1.00		ug/L	235100	1	12/19/2016 20:27	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 20-Dec-16

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-120616-RS-001-C
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 12/6/2016 5:01:00 AM
<b>Lab ID:</b> 1612479-006	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>					<b>(E200.2)</b>			
Lead	1.88	1.00		ug/L	235100	1	12/19/2016 20:31	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 20-Dec-16

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-120616-RS-002-A
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 12/6/2016 5:05:00 AM
<b>Lab ID:</b> 1612479-007	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>					<b>(E200.2)</b>			
Lead	1.57	1.00		ug/L	235100	1	12/19/2016 20:41	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



**Analytical Environmental Services, Inc**

**Date:** 20-Dec-16

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-120616-RS-002-B
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 12/6/2016 5:06:00 AM
<b>Lab ID:</b> 1612479-008	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>					<b>(E200.2)</b>			
Lead	BRL	1.00		ug/L	235100	1	12/19/2016 20:45	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client AEM

Work Order Number 1612479

Checklist completed by Alexandra 12/6/2014  
Signature Date

Carrier name: FedEx  UPS  Courier  Client  US Mail  Other

Shipping container/cooler in good condition? Yes  No  Not Present   
Custody seals intact on shipping container/cooler? Yes  No  Not Present   
Custody seals intact on sample bottles? Yes  No  Not Present   
Container/Temp Blank temperature in compliance? (0°≤6°C)\* Yes  No

Cooler #1 2-2C Cooler #2 \_\_\_\_\_ Cooler #3 \_\_\_\_\_ Cooler #4 \_\_\_\_\_ Cooler #5 \_\_\_\_\_ Cooler #6 \_\_\_\_\_

Chain of custody present? Yes  No   
Chain of custody signed when relinquished and received? Yes  No   
Chain of custody agrees with sample labels? Yes  No   
Samples in proper container/bottle? Yes  No   
Sample containers intact? Yes  No   
Sufficient sample volume for indicated test? Yes  No   
All samples received within holding time? Yes  No   
Was TAT marked on the COC? Yes  No   
Proceed with Standard TAT as per project history? Yes  No  Not Applicable   
Water - VOA vials have zero headspace? No VOA vials submitted  Yes  No   
Water - pH acceptable upon receipt? Yes  No  Not Applicable

Adjusted? \_\_\_\_\_ Checked by AJ

Sample Condition: Good  Other(Explain) \_\_\_\_\_

(For diffusive samples or AIHA lead) Is a known blank included? Yes  No

See Case Narrative for resolution of the Non-Conformance.

\* Samples do not have to comply with the given range for certain parameters.

Client: Atlanta Environmental Mgmt  
 Project Name: DCSD - 9012  
 Workorder: 1612479

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 235100

Sample ID: <b>MB-235100</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/19/2016</b>	Run No: <b>332534</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>235100</b>	Analysis Date: <b>12/19/2016</b>	Seq No: <b>7244447</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 1.00

Sample ID: <b>LCS-235100</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/19/2016</b>	Run No: <b>332534</b>							
SampleType: <b>LCS</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>235100</b>	Analysis Date: <b>12/19/2016</b>	Seq No: <b>7244448</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 99.61 1.00 100.0 99.6 85 115

Sample ID: <b>1612479-001AMS</b>	Client ID: <b>9012-120616-DF-001-A</b>	Units: <b>ug/L</b>	Prep Date: <b>12/19/2016</b>	Run No: <b>332534</b>							
SampleType: <b>MS</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>235100</b>	Analysis Date: <b>12/19/2016</b>	Seq No: <b>7244454</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 114.6 1.00 100.0 16.50 98.1 70 130

Sample ID: <b>1612811-063AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>12/19/2016</b>	Run No: <b>332534</b>							
SampleType: <b>MS</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>235100</b>	Analysis Date: <b>12/19/2016</b>	Seq No: <b>7244458</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 97.59 1.00 100.0 0.8197 96.8 70 130

Sample ID: <b>1612479-001AMSD</b>	Client ID: <b>9012-120616-DF-001-A</b>	Units: <b>ug/L</b>	Prep Date: <b>12/19/2016</b>	Run No: <b>332534</b>							
SampleType: <b>MSD</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>235100</b>	Analysis Date: <b>12/19/2016</b>	Seq No: <b>7244455</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 120.7 1.00 100.0 16.50 104 70 130 114.6 5.21 20

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

## Leona Miles

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**From:** NoReply@aesatlanta.net  
**Sent:** Thursday, October 5, 2017 5:30 PM  
**To:** leona-miles@aem-net.com; tim-royer@aem-net.com  
**Subject:** DCSD - 9012  
**Attachments:** 1709J64\_REPORT.pdf; 1709J64Invoice.pdf

Please see attached. If you have any questions or need further assistance please contact your project manager at 770-457-8177.

AES Reporting System

ANALYTICAL ENVIRONMENTAL SERVICES, INC.  
3080 Presidential Drive ATLANTA, GA 30340  
Tel: 770-457-8177 Fax: 770-457-8188  
<http://www.aesatlanta.com>

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# ANALYTICAL ENVIRONMENTAL SERVICES, INC.

October 05, 2017

Leona Miles  
Atlanta Environmental Mgmt  
2580 NE Expressway  
Atlanta GA 30345

RE: DCSD - 9012

Dear Leona Miles:

Order No: 1709J64

Analytical Environmental Services, Inc. received 2 samples on 9/22/2017 8:10:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES's accreditations are as follows:

-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.

State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.

-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.

-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/17.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Ioana Pacurar  
Project Manager



COMPANY: <b>Atlanta Environmental Management Inc</b>		ADDRESS: <b>2580 Northeast Expressway NE Atlanta, GA 30345</b>		ANALYSIS REQUESTED										Visit our website <a href="http://www.aesatlanta.com">www.aesatlanta.com</a> to check on the status of your results, place bottle orders, etc.	No # of Containers							
PHONE: 404-329-9006		FAX: 404-329-2057		Lead (200.8)																		
SAMPLED BY: <i>Andy Jensen</i>		SIGNATURE: <i>Andy Jensen</i>																				
#	SAMPLE ID	SAMPLED		Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)										REMARKS					
		DATE	TIME				F I															
1	9012-092217-DF-001-A	9/22/17	0605	X		DW	X															
2	9012-092217-DF-001-B	9/22/17	0606	X		DW	X															
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

RELINQUISHED BY 1: <i>Andy Jensen</i>		DATE/TIME <i>9/22/17 0700</i>		RECEIVED BY 1: <i>Andy Jensen</i>		DATE/TIME <i>9/22/17 0700</i>		PROJECT INFORMATION										RECEIPT	
2: <i>Andy Jensen</i>		<i>9/22/17 0810</i>		2: <i>Andy Jensen</i>		<i>9/22/17 0810</i>		PROJECT NAME: <b>DCSD</b>										Total # of Containers	
3: <i>Andy Jensen</i>		<i>9/22/17 0810</i>		3: <i>Andy Jensen</i>		<i>9/22/17 0810</i>		PROJECT #: <b>1561-1601</b>										Turnaround Time Request <input type="radio"/> Standard 5 Business Days <input type="radio"/> 2 Business Day Rush <input type="radio"/> Next Business Day Rush <input checked="" type="radio"/> Same Day Rush (auth req.) <input type="radio"/> Other: 10 business Days	
								SITE ADDRESS: <b>9012</b>											
								SEND REPORT TO: <b>leona-miles@aem-net.com</b>											
SPECIAL INSTRUCTIONS/COMMENTS: <i>preserve samples @ lab</i>				SHIPMENT METHOD OUT: / / VIA: IN: <input checked="" type="radio"/> LIENT <input type="radio"/> FedEx <input type="radio"/> UPS <input type="radio"/> MAIL <input type="radio"/> COURIER <input type="radio"/> GREYHOUND <input type="radio"/> OTHER				INVOICE TO: Leona Miles (IF DIFFERENT FROM ABOVE)										STATE PROGRAM (if any): _____	
								QUOTE #: _____ PO#: _____										E-mail? Y/N:      Fax? Y/N	
																		DATA PACKAGE: I II III IV	

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.  
 SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

**Analytical Environmental Services, Inc**

**Date:** 5-Oct-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-092217-DF-001-A
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 9/22/2017 6:05:00 AM
<b>Lab ID:</b> 1709J64-001	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>								
				<b>(E200.2)</b>				
Lead	3.61	1.00		ug/L	248921	1	09/28/2017 01:31	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

**Analytical Environmental Services, Inc**

**Date:** 5-Oct-17

<b>Client:</b> Atlanta Environmental Mgmt	<b>Client Sample ID:</b> 9012-092217-DF-001-B
<b>Project Name:</b> DCSD - 9012	<b>Collection Date:</b> 9/22/2017 6:06:00 AM
<b>Lab ID:</b> 1709J64-002	<b>Matrix:</b> Drinking Water

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
<b>Trace Elements by ICP/MS E200.8</b>					<b>(E200.2)</b>			
Lead	4.52	1.00		ug/L	248921	1	09/28/2017 01:38	JR

**Qualifiers:**

- \* Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit



### SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: \_\_\_\_\_

AES Work Order Number: \_\_\_\_\_

2. Carrier: FedEx  UPS  USPS  Client  Courier  Other \_\_\_\_\_

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?				damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?					
5. Custody seals intact on shipping container?					
6. Temperature blanks present?					
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]				Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?					
9. Chain of Custody signed, dated, and timed when relinquished and received?					
10. Sampler name and/or signature on COC?					
11. Were all samples received within holding time?					
12. TAT marked on the COC?				If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input type="checkbox"/>	

13. Cooler 1 Temperature \_\_\_\_\_ °C    Cooler 2 Temperature \_\_\_\_\_ °C    Cooler 3 Temperature \_\_\_\_\_ °C    Cooler 4 Temperature \_\_\_\_\_ °C  
 Cooler 5 Temperature \_\_\_\_\_ °C    Cooler 6 Temperature \_\_\_\_\_ °C    Cooler 7 Temperature \_\_\_\_\_ °C    Cooler 8 Temperature \_\_\_\_\_ °C

15. Comments: \_\_\_\_\_

I certify that I have completed sections 1-15 (dated initials). \_\_\_\_\_

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?					
17. Custody seals present on sample containers?					
18. Custody seals intact on sample containers?					
19. Do sample container labels match the COC?				incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?					
21. Were all of the samples listed on the COC received?				samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?					
23. Did we receive sufficient sample volume for indicated analyses?					
24. Were samples received in appropriate containers?					
25. Were VOA samples received without headspace (< 1/4" bubble)?					
26. Were trip blanks submitted?				listed on COC <input type="checkbox"/> not listed on COC <input type="checkbox"/>	

27. Comments: \_\_\_\_\_

I certify that I have completed sections 16-27 (dated initials). \_\_\_\_\_

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *					
29. Containers meet preservation guidelines?					
30. Was pH adjusted at Sample Receipt?					

I certify that I have completed sections 28-30 (dated initials). \_\_\_\_\_

Client: Atlanta Environmental Mgmt  
 Project Name: DCSD - 9012  
 Workorder: 1709J64

**ANALYTICAL QC SUMMARY REPORT**

BatchID: 248921

Sample ID: <b>MB-248921</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>09/26/2017</b>	Run No: <b>353105</b>							
SampleType: <b>MBLK</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>248921</b>	Analysis Date: <b>09/27/2017</b>	Seq No: <b>7767313</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead BRL 1.00

Sample ID: <b>LCS-248921</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>09/26/2017</b>	Run No: <b>353105</b>							
SampleType: <b>LCS</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>248921</b>	Analysis Date: <b>09/27/2017</b>	Seq No: <b>7767314</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 93.09 1.00 100.0 93.1 85 115

Sample ID: <b>1709J63-002AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>09/26/2017</b>	Run No: <b>353105</b>							
SampleType: <b>MS</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>248921</b>	Analysis Date: <b>09/27/2017</b>	Seq No: <b>7767317</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 91.92 1.00 100.0 91.9 70 130

Sample ID: <b>1709J63-012AMS</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>09/26/2017</b>	Run No: <b>353105</b>							
SampleType: <b>MS</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>248921</b>	Analysis Date: <b>09/28/2017</b>	Seq No: <b>7767320</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 1302 1.00 100.0 1233 69.2 70 130 S

Sample ID: <b>1709J63-002AMSD</b>	Client ID:	Units: <b>ug/L</b>	Prep Date: <b>09/26/2017</b>	Run No: <b>353105</b>							
SampleType: <b>MSD</b>	TestCode: <b>Trace Elements by ICP/MS E200.8</b>	BatchID: <b>248921</b>	Analysis Date: <b>09/28/2017</b>	Seq No: <b>7767318</b>							
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Lead 91.91 1.00 100.0 91.9 70 130 91.92 0.016 20

**Qualifiers:** > Greater than Result value < Less than Result value B Analyte detected in the associated method blank  
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded  
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix  
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix