

School Name: Joyner Elementary		Report Date (s): 6/18/19; 8/19/19	
Date Test Conducted: 5/9/19		Date Results Received: 5/24/19	
Number of Faucets Tested: 23 (all GCS identified faucets used for drinking/food preparation)			
Lead Results		Copper Results	
Results 15 ppb and above: 1		Results 1.3 ppm and above: 0	
Results 10 ppb to below15 ppb: 0		Detectable results below 1.3 ppm: 22	
Detectable results below 10 ppb: 7		Results below detection level: 1	
Results below detection level: 15			
Number of Faucets Requiring Remedial Action: 1			
Location of Faucet		Action Taken	
Sample ID: JES-007 (Lead @ 35 ppb) Location description: Drinking Station, Classroom 3		X Temporarily Taken Out of Service: 5/29/19 X Permanently Taken Out of Service: 6/18/19 X Flush Tested: 5/30/19 Flush Test Result: 6/15/19 ND (Lead) ___ Replaced: mm/dd/yyyy ___ Retest: mm/dd/yyyy Retest Result: ##### ___ Other: _____mm/dd/yyyy ___ Placed Back in Service on: mm/dd/yyyy	
Daily School-Wide Flushing: ___ Continue with protocol ___ Discontinue flushing protocol: mm/dd/yyyy X Other (Describe: <u>Perform Periodic Flushing</u>)			
This is a summary report prepared by ECS. ECS suggests that the full report be referred to with regards to findings, recommendations, and technical limitations for this sampling event.			

May 24, 2019

John Lair
ECS Limited, LLC

,

RE: Project: LEAD AND COPPER JOYNER
Pace Project No.: 92428809

Dear John Lair:

Enclosed are the analytical results for sample(s) received by the laboratory on May 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Ryan Abrahamson, ECS Greensboro



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alaska DEC- CS/UST/LUST
Alabama Certification #: 41320
Arizona Certification# AZ0819
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Certification: FL NELAC Reciprocity
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maryland Certification: #346
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nebraska Certification: NE-OS-28-14
New Hampshire Certification #: 2958
New Jersey Certification #: FL022
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
North Dakota Certification #: R-216
Oklahoma Certification #: D9947
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Certification: #96042001
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE ANALYTE COUNT

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92428809001	JES-001	EPA 200.8	AMS	2	PASI-O
92428809002	JES-002	EPA 200.8	AMS	2	PASI-O
92428809003	JES-003	EPA 200.8	AMS	2	PASI-O
92428809004	JES-004	EPA 200.8	AMS	2	PASI-O
92428809005	JES-005	EPA 200.8	AMS	2	PASI-O
92428809006	JES-006	EPA 200.8	AMS	2	PASI-O
92428809007	JES-007	EPA 200.8	AMS	2	PASI-O
92428809008	JES-008	EPA 200.8	AMS	2	PASI-O
92428809009	JES-009	EPA 200.8	AMS	2	PASI-O
92428809010	JES-021	EPA 200.8	AMS	2	PASI-O
92428809011	JES-014	EPA 200.8	AMS	2	PASI-O
92428809012	JES-020	EPA 200.8	AMS	2	PASI-O
92428809013	JES-019	EPA 200.8	AMS	2	PASI-O
92428809014	JES-016	EPA 200.8	AMS	2	PASI-O
92428809015	JES-017	EPA 200.8	AMS	2	PASI-O
92428809016	JES-015	EPA 200.8	AMS	2	PASI-O
92428809017	JES-012	EPA 200.8	AMS	2	PASI-O
92428809018	JES-010	EPA 200.8	AMS	2	PASI-O
92428809019	JES-011	EPA 200.8	AMS	2	PASI-O
92428809020	JES-013	EPA 200.8	AMS	2	PASI-O
92428809021	JES-022	EPA 200.8	AMS	2	PASI-O
92428809022	JES-023	EPA 200.8	AMS	2	PASI-O
92428809023	JES-024	EPA 200.8	AMS	2	PASI-O

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92428809001	JES-001					
EPA 200.8	Copper	0.021	mg/L	0.0010	05/24/19 01:46	
92428809002	JES-002					
EPA 200.8	Copper	0.024	mg/L	0.0010	05/24/19 01:49	
92428809003	JES-003					
EPA 200.8	Copper	0.055	mg/L	0.0010	05/24/19 01:50	
EPA 200.8	Lead	0.0016	mg/L	0.0010	05/24/19 01:50	
92428809005	JES-005					
EPA 200.8	Copper	0.081	mg/L	0.0010	05/24/19 01:52	
92428809006	JES-006					
EPA 200.8	Copper	0.036	mg/L	0.0010	05/24/19 01:53	
92428809007	JES-007					
EPA 200.8	Copper	0.41	mg/L	0.0010	05/24/19 02:20	
EPA 200.8	Lead	0.035	mg/L	0.0010	05/24/19 02:20	
92428809008	JES-008					
EPA 200.8	Copper	0.10	mg/L	0.0010	05/24/19 02:23	
92428809009	JES-009					
EPA 200.8	Copper	0.049	mg/L	0.0010	05/24/19 02:24	
EPA 200.8	Lead	0.0036	mg/L	0.0010	05/24/19 02:24	
92428809010	JES-021					
EPA 200.8	Copper	0.075	mg/L	0.0010	05/24/19 02:26	
EPA 200.8	Lead	0.0032	mg/L	0.0010	05/24/19 02:26	
92428809011	JES-014					
EPA 200.8	Copper	0.080	mg/L	0.0010	05/24/19 02:27	
92428809012	JES-020					
EPA 200.8	Copper	0.061	mg/L	0.0010	05/24/19 02:28	
92428809013	JES-019					
EPA 200.8	Copper	0.064	mg/L	0.0010	05/24/19 02:29	
EPA 200.8	Lead	0.0041	mg/L	0.0010	05/24/19 02:29	
92428809014	JES-016					
EPA 200.8	Copper	0.049	mg/L	0.0010	05/24/19 02:30	
EPA 200.8	Lead	0.0022	mg/L	0.0010	05/24/19 02:30	
92428809015	JES-017					
EPA 200.8	Copper	0.066	mg/L	0.0010	05/24/19 02:31	
EPA 200.8	Lead	0.0015	mg/L	0.0010	05/24/19 02:31	
92428809016	JES-015					
EPA 200.8	Copper	0.050	mg/L	0.0010	05/24/19 02:32	
EPA 200.8	Lead	0.0011	mg/L	0.0010	05/24/19 02:32	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92428809017	JES-012					
EPA 200.8	Copper	0.036	mg/L	0.0010	05/24/19 02:33	
92428809018	JES-010					
EPA 200.8	Copper	0.033	mg/L	0.0010	05/24/19 02:36	
92428809019	JES-011					
EPA 200.8	Copper	0.035	mg/L	0.0010	05/24/19 02:37	
EPA 200.8	Lead	0.0012	mg/L	0.0010	05/24/19 02:37	
92428809020	JES-013					
EPA 200.8	Copper	0.030	mg/L	0.0010	05/24/19 02:38	
92428809021	JES-022					
EPA 200.8	Copper	0.059	mg/L	0.0010	05/24/19 02:39	
92428809022	JES-023					
EPA 200.8	Copper	0.026	mg/L	0.0010	05/24/19 02:40	
92428809023	JES-024					
EPA 200.8	Copper	0.089	mg/L	0.0010	05/24/19 02:41	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Sample: JES-001		Lab ID: 92428809001	Collected: 05/09/19 06:36	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.021	mg/L	0.0010	1		05/24/19 01:46	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 01:46	7439-92-1	

Sample: JES-002		Lab ID: 92428809002	Collected: 05/09/19 06:36	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.024	mg/L	0.0010	1		05/24/19 01:49	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 01:49	7439-92-1	

Sample: JES-003		Lab ID: 92428809003	Collected: 05/09/19 06:38	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.055	mg/L	0.0010	1		05/24/19 01:50	7440-50-8	
Lead	0.0016	mg/L	0.0010	1		05/24/19 01:50	7439-92-1	

Sample: JES-004		Lab ID: 92428809004	Collected: 05/09/19 06:40	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	ND	mg/L	0.0010	1		05/24/19 01:51	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 01:51	7439-92-1	

Sample: JES-005		Lab ID: 92428809005	Collected: 05/09/19 06:42	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.081	mg/L	0.0010	1		05/24/19 01:52	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 01:52	7439-92-1	

Sample: JES-006		Lab ID: 92428809006	Collected: 05/09/19 06:44	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.036	mg/L	0.0010	1		05/24/19 01:53	7440-50-8	
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Sample: JES-006		Lab ID: 92428809006	Collected: 05/09/19 06:44	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Lead	ND	mg/L	0.0010	1		05/24/19 01:53	7439-92-1	
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Sample: JES-007		Lab ID: 92428809007	Collected: 05/09/19 06:47	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.41	mg/L	0.0010	1		05/24/19 02:20	7440-50-8	
Lead	0.035	mg/L	0.0010	1		05/24/19 02:20	7439-92-1	

Sample: JES-008		Lab ID: 92428809008	Collected: 05/09/19 06:49	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.10	mg/L	0.0010	1		05/24/19 02:23	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 02:23	7439-92-1	

Sample: JES-009		Lab ID: 92428809009	Collected: 05/09/19 06:50	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.049	mg/L	0.0010	1		05/24/19 02:24	7440-50-8	
Lead	0.0036	mg/L	0.0010	1		05/24/19 02:24	7439-92-1	

Sample: JES-021		Lab ID: 92428809010	Collected: 05/09/19 06:53	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.075	mg/L	0.0010	1		05/24/19 02:26	7440-50-8	
Lead	0.0032	mg/L	0.0010	1		05/24/19 02:26	7439-92-1	

Sample: JES-014		Lab ID: 92428809011	Collected: 05/09/19 06:55	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.080	mg/L	0.0010	1		05/24/19 02:27	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 02:27	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Sample: JES-020		Lab ID: 92428809012		Collected: 05/09/19 06:57	Received: 05/10/19 09:24	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.061	mg/L	0.0010	1		05/24/19 02:28	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 02:28	7439-92-1	

Sample: JES-019		Lab ID: 92428809013		Collected: 05/09/19 06:58	Received: 05/10/19 09:24	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.064	mg/L	0.0010	1		05/24/19 02:29	7440-50-8	
Lead	0.0041	mg/L	0.0010	1		05/24/19 02:29	7439-92-1	

Sample: JES-016		Lab ID: 92428809014	Collected: 05/09/19 07:00	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.049	mg/L	0.0010	1		05/24/19 02:30	7440-50-8	
Lead	0.0022	mg/L	0.0010	1		05/24/19 02:30	7439-92-1	

Sample: JES-017		Lab ID: 92428809015		Collected: 05/09/19 07:01	Received: 05/10/19 09:24	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.066	mg/L	0.0010	1		05/24/19 02:31	7440-50-8	
Lead	0.0015	mg/L	0.0010	1		05/24/19 02:31	7439-92-1	

Sample: JES-015		Lab ID: 92428809016		Collected: 05/09/19 07:04	Received: 05/10/19 09:24	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.050	mg/L	0.0010	1		05/24/19 02:32	7440-50-8	
Lead	0.0011	mg/L	0.0010	1		05/24/19 02:32	7439-92-1	

Sample: JES-012		Lab ID: 92428809017		Collected: 05/09/19 07:07	Received: 05/10/19 09:24	Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.036	mg/L	0.0010	1		05/24/19 02:33	7440-50-8	
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ANALYTICAL RESULTS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Sample: JES-012		Lab ID: 92428809017	Collected: 05/09/19 07:07	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Lead	ND	mg/L	0.0010	1		05/24/19 02:33	7439-92-1	
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Sample: JES-010		Lab ID: 92428809018	Collected: 05/09/19 07:08	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.033	mg/L	0.0010	1		05/24/19 02:36	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 02:36	7439-92-1	

Sample: JES-011		Lab ID: 92428809019	Collected: 05/09/19 07:10	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.035	mg/L	0.0010	1		05/24/19 02:37	7440-50-8	
Lead	0.0012	mg/L	0.0010	1		05/24/19 02:37	7439-92-1	

Sample: JES-013		Lab ID: 92428809020	Collected: 05/09/19 07:11	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.030	mg/L	0.0010	1		05/24/19 02:38	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 02:38	7439-92-1	

Sample: JES-022		Lab ID: 92428809021	Collected: 05/09/19 07:16	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.059	mg/L	0.0010	1		05/24/19 02:39	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 02:39	7439-92-1	

Sample: JES-023		Lab ID: 92428809022	Collected: 05/09/19 07:25	Received: 05/10/19 09:24	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

200.8 MET ICPMS Drinking Water Analytical Method: EPA 200.8

Copper	0.026	mg/L	0.0010	1		05/24/19 02:40	7440-50-8	
Lead	ND	mg/L	0.0010	1		05/24/19 02:40	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Sample: JES-024		Lab ID: 92428809023		Collected: 05/09/19 07:27		Received: 05/10/19 09:24		Matrix: Drinking Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	0.089	mg/L	0.0010	1		05/24/19 02:41	7440-50-8		
Lead	ND	mg/L	0.0010	1		05/24/19 02:41	7439-92-1		

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QUALITY CONTROL DATA

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

QC Batch: 540597 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET No Prep Drinking Water
Associated Lab Samples: 92428809001, 92428809002, 92428809003, 92428809004, 92428809005, 92428809006

METHOD BLANK: 2929373 Matrix: Water
Associated Lab Samples: 92428809001, 92428809002, 92428809003, 92428809004, 92428809005, 92428809006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	ND	0.0010	05/24/19 02:15	
Lead	mg/L	ND	0.0010	05/24/19 02:15	

LABORATORY CONTROL SAMPLE: 2929374

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	0.05	0.048	96	85-115	
Lead	mg/L	0.05	0.049	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2929369 2929370

Parameter	Units	92428809001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	mg/L	0.021	0.05	0.05	0.075	0.075	107	107	70-130	0	
Lead	mg/L	ND	0.05	0.05	0.048	0.051	95	100	70-130	5	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2929371 2929372

Parameter	Units	2618752014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	mg/L	72.6	0.05	0.05	0.13	0.12	107	102	70-130	2	
Lead	mg/L	ug/L ND	0.05	0.05	0.051	0.048	101	96	70-130	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

QC Batch:	540601	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	200.8 MET No Prep Drinking Water
Associated Lab Samples:	92428809007, 92428809008, 92428809009, 92428809010, 92428809011, 92428809012, 92428809013, 92428809014, 92428809015, 92428809016, 92428809017, 92428809018, 92428809019, 92428809020, 92428809021, 92428809022, 92428809023		

METHOD BLANK:	2929394	Matrix:	Water
Associated Lab Samples:	92428809007, 92428809008, 92428809009, 92428809010, 92428809011, 92428809012, 92428809013, 92428809014, 92428809015, 92428809016, 92428809017, 92428809018, 92428809019, 92428809020, 92428809021, 92428809022, 92428809023		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	mg/L	ND	0.0010	05/24/19 02:49	
Lead	mg/L	ND	0.0010	05/24/19 02:49	

LABORATORY CONTROL SAMPLE: 2929395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	mg/L	0.05	0.047	95	85-115	
Lead	mg/L	0.05	0.048	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2929390		2929391						
Parameter	92429142005		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.							
Copper	mg/L	41.2	0.05	0.05	0.096	0.094	109	105	70-130	2	
Lead	mg/L	ND	0.05	0.05	0.050	0.047	98	94	70-130	4	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2929392		2929393						
Parameter	35469806002		MS	MSD	MS	MSD	MS	MSD	% Rec	RPD	Qual
	Units	Result	Spike	Spike							
Copper	mg/L	14.6	0.05	0.05	0.063	0.062	97	95	70-130	2	
		ug/L									
Lead	mg/L	0.0069	0.05	0.05	0.053	0.052	92	91	70-130	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92428809

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92428809001	JES-001	EPA 200.8	540597		
92428809002	JES-002	EPA 200.8	540597		
92428809003	JES-003	EPA 200.8	540597		
92428809004	JES-004	EPA 200.8	540597		
92428809005	JES-005	EPA 200.8	540597		
92428809006	JES-006	EPA 200.8	540597		
92428809007	JES-007	EPA 200.8	540601		
92428809008	JES-008	EPA 200.8	540601		
92428809009	JES-009	EPA 200.8	540601		
92428809010	JES-021	EPA 200.8	540601		
92428809011	JES-014	EPA 200.8	540601		
92428809012	JES-020	EPA 200.8	540601		
92428809013	JES-019	EPA 200.8	540601		
92428809014	JES-016	EPA 200.8	540601		
92428809015	JES-017	EPA 200.8	540601		
92428809016	JES-015	EPA 200.8	540601		
92428809017	JES-012	EPA 200.8	540601		
92428809018	JES-010	EPA 200.8	540601		
92428809019	JES-011	EPA 200.8	540601		
92428809020	JES-013	EPA 200.8	540601		
92428809021	JES-022	EPA 200.8	540601		
92428809022	JES-023	EPA 200.8	540601		
92428809023	JES-024	EPA 200.8	540601		

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐

Sample Condition
Upon Receipt

Client Name:

ECS Greensboro

Project #

WO#: **92428809**



Courier:

☐ Commercial

☐ Fed Ex

☒ Pace

☐ UPS

☐ USPS

☐ Other: _____

☐ Client

Custody Seal Present?

☐ Yes

☒ No

Seals Intact?

☐ Yes

☒ No

Date/Initials Person Examining Contents:

TF 5-10-14

Packing Material:

☐ Bubble Wrap

☐ Bubble Bags

☒ None

☐ Other

Thermometer:

☐ IR Gun ID: 92T048

Type of Ice:

☐ Wet

☐ Blue

☒ None

Biological Tissue Frozen?

☐ Yes

☐ No

☒ N/A

Cooler Temp (°C):

23.0

Correction Factor: Add/Subtract (°C)

0.0

Cooler Temp Corrected (°C):

23.0

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil ☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

☐ Yes

☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

		Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	8.
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	<u>DW</u>	
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.
Trip Blank Present?	☐ Yes ☐ No ☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted:

Date/Time:

Project Manager SCURF Review:

TR
FR

Date:

5/13

Project Manager SRF Review:

Date:

5/13

	Document Name:	Document Revised: February 7, 2018
	Sample Condition Upon Receipt(SCUR)	Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project #

WO#: 92428809

PM: PTE

Due Date: 05/21/19

CLIENT: 92-ECS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-SO3S kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

	Document Name:	Document Revised: February 7, 2018
	Sample Condition Upon Receipt(SCUR)	Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project #

WO# : 92428809

PM: PTE

Due Date: 05/21/19

CLIENT: 92-ECS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-S03S kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

June 15, 2019

John Lair
ECS Limited, LLC

,

RE: Project: LEAD AND COPPER JOYNER
Pace Project No.: 92431218

Dear John Lair:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Ryan Abrahamson, ECS Greensboro



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92431218

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92431218

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92431218001	JES-007-R1	EPA 200.8 Rev 5.4	SER	2	PASI-A

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92431218

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92431218001	JES-007-R1					
EPA 200.8 Rev 5.4	Copper	10.2	ug/L	5.0	06/14/19 14:40	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92431218

Sample: JES-007-R1		Lab ID: 92431218001	Collected: 05/30/19 15:40	Received: 05/31/19 09:54	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS DW, No Prep		Analytical Method: EPA 200.8 Rev 5.4						
Copper	10.2	ug/L	5.0	1		06/14/19 14:40	7440-50-8	
Lead	ND	ug/L	3.0	1		06/14/19 14:40	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: LEAD AND COPPER JOYNER
Pace Project No.: 92431218

QC Batch: 481018	Analysis Method: EPA 200.8 Rev 5.4
QC Batch Method: EPA 200.8 Rev 5.4	Analysis Description: 200.8 MET Drinking Water, No Prep
Associated Lab Samples: 92431218001	

METHOD BLANK: 2602035 Matrix: Water
Associated Lab Samples: 92431218001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	ND	5.0	06/14/19 14:22	
Lead	ug/L	ND	3.0	06/14/19 14:22	

LABORATORY CONTROL SAMPLE: 2602036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	45.1	90	85-115	
Lead	ug/L	50	46.1	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2602037 2602038

Parameter	Units	92431218001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	10.2	50	50	54.3	55.4	88	91	70-130	2	
Lead	ug/L	ND	50	50	45.4	45.1	90	89	70-130	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2602039 2602040

Parameter	Units	92432012003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	187	50	50	227	231	81	89	70-130	2	
Lead	ug/L	ND	50	50	46.2	46.9	91	93	70-130	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92431218

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEAD AND COPPER JOYNER

Pace Project No.: 92431218

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92431218001	JES-007-R1	EPA 200.8 Rev 5.4	481018		

REPORT OF LABORATORY ANALYSIS

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Document Name:
Sample Condition Upon Receipt(SCUR)
Document No.:
F-CAR-CS-033-Rev.06

Document Revised: February 7, 2018
Page 1 of 2
Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐

Sample Condition
Upon Receipt

Client Name:

ECS Greensboro

Project #:

WO#: 92431218



92431218

Courier:

☐ Commercial

☐ Fed Ex

☒ Pace

☐ UPS

☐ USPS

☐ Other:

☐ Client

Custody Seal Present?

☐ Yes

☒ No

Seals Intact?

☐ Yes

☒ No

Date/Initials Person Examining Contents:

SR S-3-19

Packing Material:

☐ Bubble Wrap

☐ Bubble Bags

☒ None

☐ Other

Thermometer:

☒ TR Gun ID: 92T048

Type of Ice:

☒ Wet

☐ Blue

☐ None

Biological Tissue Frozen?

☐ Yes

☒ No

☐ N/A

Cooler Temp (°C):

3.6

Correction Factor: Add/Subtract (°C)

0.0

Cooler Temp Corrected (°C):

3.6

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?

☐ Yes

☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

			Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.	
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.	
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.	
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.	
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.	
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A		
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.	
Dissolved analysis: Samples Field Filtered?	☐ Yes ☐ No ☒ N/A	8.	
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.	
-Includes Date/Time/ID/Analysis Matrix: <u>h-T</u>			
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☐ No ☒ N/A	10.	
Trip Blank Present?	☐ Yes ☒ No ☐ N/A	11.	
Trip Blank Custody Seals Present?	☐ Yes ☐ No ☒ N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCURF Review:

TE

Date:

6/3

Project Manager SRF Review:

TE

Date:

6/3

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project **WO# : 92431218**

PM: PTE

Due Date: 06/11/19

CLIENT: 92-ECS

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-SO3S kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Required Client Information:

Company:	ECS Greensboro
Address:	4811 Koger Blvd
	Greensboro, NC 27407
Email:	
Phone:	
Requested Due Date:	

Section B

Required Project Information:

Report To:	Abrahamson, Ryan
Copy To:	
Purchase Order #:	
Project Name:	Lead and Copy
Project #:	8287-A

Section C

Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	taylor.ezell@pacelabs.com
Pace Profile #:	1834-5

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