

School Name: Sedgefield ES		Report Date (s): 6/17/19; 8/9/19	
Date Test Conducted: 5/7/19		Date Results Received: 5/18/19	
Number of Faucets Tested: 46 (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 below 15 ppb: 0		Detectable results below 1.3 ppm: 46	
Detectable results below 10 ppb: 2		Results below detection level: 0	
Results below detection level: 43			
Number of Faucets Requiring Remedial Action: 1			
Location of Faucet		Action Taken	
Sample ID: 135-SGE (27.0 ppb) Location description: Classroom 39 Drinking Station		x Temporarily Taken Out of Service: 5/21/19 x Permanently Taken Out of Service: 6/5/19 x Flush Tested: 5/22/19 Flush Test Result 6/1/19: 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 <u>X</u> 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 18, 2019

Ryan Abrahamson
ECS Greensboro

RE: Project: Lead and Copper
Pace Project No.: 92428474

Dear Ryan Abrahamson:

Enclosed are the analytical results for sample(s) received by the laboratory on May 08, 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



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: Lead and Copper

Pace Project No.: 92428474

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lead and Copper

Pace Project No.: 92428474

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92428474001	100-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474002	101-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474003	102-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474004	103-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474005	104-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474006	105-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474007	106-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474008	107-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474009	108-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474010	109-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474011	110-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474012	111-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474013	112-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474014	113-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474015	114-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474016	115-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474017	116-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474018	117-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474019	118-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474020	119-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474021	120-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474022	121-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474023	122-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474024	123-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474025	124-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474026	125-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474027	126-SGE	EPA 200.8 Rev 5.4	JOR	2	PASI-A
92428474028	127-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474029	128-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474030	129-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474031	130-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474032	131-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474033	132-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474034	133-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474035	134-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474036	135-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474037	136-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: Lead and Copper
Pace Project No.: 92428474

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92428474038	137-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474039	138-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474040	139-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474041	140-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474042	141-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474043	142-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474044	143-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474045	144-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A
92428474046	145-SGE	EPA 200.8 Rev 5.4	SER	2	PASI-A

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lead and Copper
Pace Project No.: 92428474

Sample: 100-SGE		Lab ID: 92428474001	Collected: 05/07/19 06:31		Received: 05/08/19 10:31		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	41.2	ug/L	5.0	1		05/14/19 23:35	7440-50-8	
Lead	ND	ug/L	3.0	1		05/14/19 23:35	7439-92-1	
Sample: 101-SGE		Lab ID: 92428474002	Collected: 05/07/19 06:30		Received: 05/08/19 10:31		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	70.8	ug/L	5.0	1		05/14/19 23:45	7440-50-8	
Lead	ND	ug/L	3.0	1		05/14/19 23:45	7439-92-1	
Sample: 102-SGE		Lab ID: 92428474003	Collected: 05/07/19 06:31		Received: 05/08/19 10:31		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	45.2	ug/L	5.0	1		05/14/19 23:48	7440-50-8	
Lead	ND	ug/L	3.0	1		05/14/19 23:48	7439-92-1	
Sample: 103-SGE		Lab ID: 92428474004	Collected: 05/07/19 06:29		Received: 05/08/19 10:31		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	75.5	ug/L	5.0	1		05/14/19 23:59	7440-50-8	
Lead	ND	ug/L	3.0	1		05/14/19 23:59	7439-92-1	
Sample: 104-SGE		Lab ID: 92428474005	Collected: 05/07/19 06:33		Received: 05/08/19 10:31		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	14.5	ug/L	5.0	1		05/15/19 00:02	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:02	7439-92-1	
Sample: 105-SGE		Lab ID: 92428474006	Collected: 05/07/19 06:41		Received: 05/08/19 10:31		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 Rev 5.4 Preparation Method: EPA 200.8 Rev 5.4						
Copper	106	ug/L	5.0	1	05/17/19 00:50	05/17/19 10:03	7440-50-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lead and Copper
Pace Project No.: 92428474

Sample: 105-SGE		Lab ID: 92428474006	Collected: 05/07/19 06:41		Received: 05/08/19 10:31		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 Rev 5.4 Preparation Method: EPA 200.8 Rev 5.4								
Lead	ND	ug/L	3.0	1	05/17/19 00:50	05/17/19 10:03	7439-92-1	
Sample: 106-SGE		Lab ID: 92428474007	Collected: 05/07/19 06:46		Received: 05/08/19 10:31		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	31.9	ug/L	5.0	1		05/15/19 00:06	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:06	7439-92-1	
Sample: 107-SGE		Lab ID: 92428474008	Collected: 05/07/19 06:44		Received: 05/08/19 10:31		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	75.8	ug/L	5.0	1		05/15/19 00:09	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:09	7439-92-1	
Sample: 108-SGE		Lab ID: 92428474009	Collected: 05/07/19 06:49		Received: 05/08/19 10:31		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	85.9	ug/L	5.0	1		05/15/19 00:13	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:13	7439-92-1	
Sample: 109-SGE		Lab ID: 92428474010	Collected: 05/07/19 06:51		Received: 05/08/19 10:31		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	85.3	ug/L	5.0	1		05/15/19 00:16	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:16	7439-92-1	
Sample: 110-SGE		Lab ID: 92428474011	Collected: 05/07/19 06:52		Received: 05/08/19 10:31		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	77.3	ug/L	5.0	1		05/15/19 00:20	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:20	7439-92-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lead and Copper
Pace Project No.: 92428474

Sample: 111-SGE		Lab ID: 92428474012	Collected: 05/07/19 06:47		Received: 05/08/19 10:31		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	84.5	ug/L	5.0	1		05/15/19 00:23	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:23	7439-92-1	
Sample: 112-SGE		Lab ID: 92428474013	Collected: 05/07/19 06:48		Received: 05/08/19 10:31		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	79.6	ug/L	5.0	1		05/15/19 00:41	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:41	7439-92-1	
Sample: 113-SGE		Lab ID: 92428474014	Collected: 05/07/19 06:52		Received: 05/08/19 10:31		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	34.0	ug/L	5.0	1		05/15/19 00:44	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:44	7439-92-1	
Sample: 114-SGE		Lab ID: 92428474015	Collected: 05/07/19 06:55		Received: 05/08/19 10:31		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	91.4	ug/L	5.0	1		05/15/19 00:48	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:48	7439-92-1	
Sample: 115-SGE		Lab ID: 92428474016	Collected: 05/07/19 06:57		Received: 05/08/19 10:31		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	82.0	ug/L	5.0	1		05/15/19 00:51	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:51	7439-92-1	
Sample: 116-SGE		Lab ID: 92428474017	Collected: 05/07/19 06:59		Received: 05/08/19 10:31		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	77.4	ug/L	5.0	1		05/15/19 00:55	7440-50-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lead and Copper

Pace Project No.: 92428474

Sample: 116-SGE		Lab ID: 92428474017	Collected: 05/07/19 06:59	Received: 05/08/19 10:31	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						
Lead	ND	ug/L	3.0	1		05/15/19 00:55	7439-92-1	
Sample: 117-SGE		Lab ID: 92428474018	Collected: 05/07/19 07:00	Received: 05/08/19 10:31	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	84.6	ug/L	5.0	1		05/15/19 00:58	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 00:58	7439-92-1	
Sample: 118-SGE		Lab ID: 92428474019	Collected: 05/07/19 07:01	Received: 05/08/19 10:31	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	55.9	ug/L	5.0	1		05/15/19 01:02	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 01:02	7439-92-1	
Sample: 119-SGE		Lab ID: 92428474020	Collected: 05/07/19 07:03	Received: 05/08/19 10:31	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	64.6	ug/L	5.0	1		05/15/19 01:05	7440-50-8	
Lead	ND	ug/L	3.0	1		05/15/19 01:05	7439-92-1	
Sample: 120-SGE		Lab ID: 92428474021	Collected: 05/07/19 07:04	Received: 05/08/19 10:31	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	88.7	ug/L	5.0	1		05/16/19 15:04	7440-50-8	
Lead	ND	ug/L	3.0	1		05/16/19 15:04	7439-92-1	
Sample: 121-SGE		Lab ID: 92428474022	Collected: 05/07/19 07:05	Received: 05/08/19 10:31	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	78.0	ug/L	5.0	1		05/16/19 15:07	7440-50-8	
Lead	ND	ug/L	3.0	1		05/16/19 15:07	7439-92-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lead and Copper
Pace Project No.: 92428474

Sample: 122-SGE		Lab ID: 92428474023	Collected: 05/07/19 07:08		Received: 05/08/19 10:31		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	38.5	ug/L	5.0	1		05/16/19 15:10	7440-50-8	
Lead	ND	ug/L	3.0	1		05/16/19 15:10	7439-92-1	
Sample: 123-SGE		Lab ID: 92428474024	Collected: 05/07/19 07:10		Received: 05/08/19 10:31		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	39.5	ug/L	5.0	1		05/16/19 15:12	7440-50-8	
Lead	ND	ug/L	3.0	1		05/16/19 15:12	7439-92-1	
Sample: 124-SGE		Lab ID: 92428474025	Collected: 05/07/19 07:20		Received: 05/08/19 10:31		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	53.4	ug/L	5.0	1		05/16/19 15:15	7440-50-8	
Lead	ND	ug/L	3.0	1		05/16/19 15:15	7439-92-1	
Sample: 125-SGE		Lab ID: 92428474026	Collected: 05/07/19 07:12		Received: 05/08/19 10:31		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	48.0	ug/L	5.0	1		05/16/19 15:18	7440-50-8	
Lead	ND	ug/L	3.0	1		05/16/19 15:18	7439-92-1	
Sample: 126-SGE		Lab ID: 92428474027	Collected: 05/07/19 07:26		Received: 05/08/19 10:31		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	60.4	ug/L	5.0	1		05/16/19 15:20	7440-50-8	
Lead	4.6	ug/L	3.0	1		05/16/19 15:20	7439-92-1	
Sample: 127-SGE		Lab ID: 92428474028	Collected: 05/07/19 07:14		Received: 05/08/19 10:31		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	44.3	ug/L	5.0	1		05/17/19 19:09	7440-50-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lead and Copper
Pace Project No.: 92428474

Sample: 127-SGE		Lab ID: 92428474028	Collected: 05/07/19 07:14		Received: 05/08/19 10:31		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						
Lead	ND	ug/L	3.0	1		05/17/19 19:09	7439-92-1	
Sample: 128-SGE		Lab ID: 92428474029	Collected: 05/07/19 07:25		Received: 05/08/19 10:31		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	87.9	ug/L	5.0	1		05/17/19 19:18	7440-50-8	
Lead	7.3	ug/L	3.0	1		05/17/19 19:18	7439-92-1	
Sample: 129-SGE		Lab ID: 92428474030	Collected: 05/07/19 07:15		Received: 05/08/19 10:31		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	43.7	ug/L	5.0	1		05/17/19 19:21	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 19:21	7439-92-1	
Sample: 130-SGE		Lab ID: 92428474031	Collected: 05/07/19 07:23		Received: 05/08/19 10:31		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	35.4	ug/L	5.0	1		05/17/19 19:24	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 19:24	7439-92-1	
Sample: 131-SGE		Lab ID: 92428474032	Collected: 05/07/19 07:17		Received: 05/08/19 10:31		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	48.1	ug/L	5.0	1		05/17/19 19:27	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 19:27	7439-92-1	
Sample: 132-SGE		Lab ID: 92428474033	Collected: 05/07/19 07:21		Received: 05/08/19 10:31		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	48.5	ug/L	5.0	1		05/17/19 19:29	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 19:29	7439-92-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lead and Copper
Pace Project No.: 92428474

Sample: 133-SGE		Lab ID: 92428474034	Collected: 05/07/19 07:18		Received: 05/08/19 10:31		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	57.5	ug/L	5.0	1		05/17/19 19:38	7440-50-8	
Lead	3.2	ug/L	3.0	1		05/17/19 19:38	7439-92-1	
Sample: 134-SGE		Lab ID: 92428474035	Collected: 05/07/19 07:21		Received: 05/08/19 10:31		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	41.8	ug/L	5.0	1		05/17/19 19:41	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 19:41	7439-92-1	
Sample: 135-SGE		Lab ID: 92428474036	Collected: 05/07/19 07:19		Received: 05/08/19 10:31		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	62.0	ug/L	5.0	1		05/17/19 19:44	7440-50-8	
Lead	27.0	ug/L	3.0	1		05/17/19 19:44	7439-92-1	
Sample: 136-SGE		Lab ID: 92428474037	Collected: 05/07/19 07:32		Received: 05/08/19 10:31		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	91.1	ug/L	5.0	1		05/17/19 19:47	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 19:47	7439-92-1	
Sample: 137-SGE		Lab ID: 92428474038	Collected: 05/07/19 07:38		Received: 05/08/19 10:31		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	52.5	ug/L	5.0	1		05/17/19 19:50	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 19:50	7439-92-1	
Sample: 138-SGE		Lab ID: 92428474039	Collected: 05/07/19 07:34		Received: 05/08/19 10:31		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	65.7	ug/L	5.0	1		05/17/19 19:59	7440-50-8	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lead and Copper
Pace Project No.: 92428474

Sample: 138-SGE		Lab ID: 92428474039	Collected: 05/07/19 07:34		Received: 05/08/19 10:31		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						
Lead	ND	ug/L	3.0	1		05/17/19 19:59	7439-92-1	
Sample: 139-SGE		Lab ID: 92428474040	Collected: 05/07/19 07:35		Received: 05/08/19 10:31		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	63.0	ug/L	5.0	1		05/17/19 20:02	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 20:02	7439-92-1	
Sample: 140-SGE		Lab ID: 92428474041	Collected: 05/07/19 07:39		Received: 05/08/19 10:31		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	57.8	ug/L	5.0	1		05/17/19 20:05	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 20:05	7439-92-1	
Sample: 141-SGE		Lab ID: 92428474042	Collected: 05/07/19 07:42		Received: 05/08/19 10:31		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	46.1	ug/L	5.0	1		05/17/19 20:14	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 20:14	7439-92-1	
Sample: 142-SGE		Lab ID: 92428474043	Collected: 05/07/19 07:46		Received: 05/08/19 10:31		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	51.5	ug/L	5.0	1		05/17/19 20:17	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 20:17	7439-92-1	
Sample: 143-SGE		Lab ID: 92428474044	Collected: 05/07/19 07:44		Received: 05/08/19 10:31		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	33.4	ug/L	5.0	1		05/17/19 20:20	7440-50-8	
Lead	ND	ug/L	3.0	1		05/17/19 20:20	7439-92-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: Lead and Copper
Pace Project No.: 92428474

Sample: 144-SGE		Lab ID: 92428474045		Collected: 05/07/19 07:50		Received: 05/08/19 10:31		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	82.9	ug/L	5.0	1		05/17/19 20:23	7440-50-8		
Lead	ND	ug/L	3.0	1		05/17/19 20:23	7439-92-1		

Sample: 145-SGE		Lab ID: 92428474046		Collected: 05/07/19 06:43		Received: 05/08/19 10:31		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	159	ug/L	5.0	1		05/17/19 20:26	7440-50-8		
Lead	ND	ug/L	3.0	1		05/17/19 20:26	7439-92-1		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lead and Copper

Pace Project No.: 92428474

QC Batch:	475305	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:	92428474001, 92428474002, 92428474003, 92428474004, 92428474005, 92428474007, 92428474008, 92428474009, 92428474010, 92428474011, 92428474012, 92428474013, 92428474014, 92428474015, 92428474016, 92428474017, 92428474018, 92428474019, 92428474020		

METHOD BLANK: 2576166

Matrix: Water

Associated Lab Samples: 92428474001, 92428474002, 92428474003, 92428474004, 92428474005, 92428474007, 92428474008, 92428474009, 92428474010, 92428474011, 92428474012, 92428474013, 92428474014, 92428474015, 92428474016, 92428474017, 92428474018, 92428474019, 92428474020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	ND	5.0	05/14/19 23:28	
Lead	ug/L	ND	3.0	05/14/19 23:28	

LABORATORY CONTROL SAMPLE: 2576167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	46.8	94	85-115	
Lead	ug/L	50	46.1	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2576168 2576169

Parameter	Units	92428474001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	41.2	50	50	84.7	90.0	87	98	70-130	6	
Lead	ug/L	ND	50	50	48.6	51.4	94	100	70-130	6	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2576170 2576171

Parameter	Units	92428474012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	84.5	50	50	129	126	89	83	70-130	2	
Lead	ug/L	ND	50	50	50.0	51.1	97	99	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lead and Copper

Pace Project No.: 92428474

QC Batch:	475525	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: 92428474021, 92428474022, 92428474023, 92428474024, 92428474025, 92428474026, 92428474027			

METHOD BLANK:	2577217	Matrix:	Water
Associated Lab Samples: 92428474021, 92428474022, 92428474023, 92428474024, 92428474025, 92428474026, 92428474027			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	ND	5.0	05/16/19 14:03	
Lead	ug/L	ND	3.0	05/16/19 14:03	

LABORATORY CONTROL SAMPLE: 2577218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	50.7	101	85-115	
Lead	ug/L	50	49.9	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577219 2577220

Parameter	Units	92428475021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	35.6	50	50	83.8	82.8	96	94	70-130	1	
Lead	ug/L	ND	50	50	51.7	50.8	101	99	70-130	2	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577221 2577222

Parameter	Units	92428475031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	50.3	50	50	100	98.6	100	97	70-130	2	
Lead	ug/L	ND	50	50	49.9	50.3	100	101	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lead and Copper

Pace Project No.: 92428474

QC Batch:	475893	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:	92428474028, 92428474029, 92428474030, 92428474031, 92428474032, 92428474033, 92428474034, 92428474035, 92428474036, 92428474037, 92428474038, 92428474039, 92428474040, 92428474041, 92428474042, 92428474043, 92428474044, 92428474045, 92428474046		

METHOD BLANK:	2578677	Matrix:	Water
Associated Lab Samples:	92428474028, 92428474029, 92428474030, 92428474031, 92428474032, 92428474033, 92428474034, 92428474035, 92428474036, 92428474037, 92428474038, 92428474039, 92428474040, 92428474041, 92428474042, 92428474043, 92428474044, 92428474045, 92428474046		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	ND	5.0	05/17/19 19:03	
Lead	ug/L	ND	3.0	05/17/19 19:03	

LABORATORY CONTROL SAMPLE: 2578678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	45.4	91	85-115	
Lead	ug/L	50	43.4	87	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2578679 2578680

Parameter	Units	92428474028 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	44.3	50	50	87.6	86.4	87	84	70-130	1	
Lead	ug/L	ND	50	50	46.2	46.2	91	91	70-130	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2578681 2578682

Parameter	Units	92428474038 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	52.5	50	50	92.5	89.5	80	74	70-130	3	
Lead	ug/L	ND	50	50	43.2	39.6	86	79	70-130	9	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: Lead and Copper

Pace Project No.: 92428474

QC Batch:	475891	Analysis Method:	EPA 200.8 Rev 5.4
QC Batch Method:	EPA 200.8 Rev 5.4	Analysis Description:	200.8 MET Drinking Water
Associated Lab Samples:	92428474006		

METHOD BLANK: 2578673 Matrix: Water
Associated Lab Samples: 92428474006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	ND	5.0	05/17/19 09:48	
Lead	ug/L	ND	3.0	05/17/19 09:48	

LABORATORY CONTROL SAMPLE: 2578674

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	54.6	109	85-115	
Lead	ug/L	50	52.6	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2578675 2578676

Parameter	Units	92428410001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	68.6	50	50	126	121	114	106	70-130	3	
Lead	ug/L	0.010 mg/L	50	50	65.1	63.4	109	106	70-130	3	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: Lead and Copper
Pace Project No.: 92428474

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Lead and Copper
Pace Project No.: 92428474

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92428474006	105-SGE	EPA 200.8 Rev 5.4	475891	EPA 200.8 Rev 5.4	475899
92428474001	100-SGE	EPA 200.8 Rev 5.4	475305		
92428474002	101-SGE	EPA 200.8 Rev 5.4	475305		
92428474003	102-SGE	EPA 200.8 Rev 5.4	475305		
92428474004	103-SGE	EPA 200.8 Rev 5.4	475305		
92428474005	104-SGE	EPA 200.8 Rev 5.4	475305		
92428474007	106-SGE	EPA 200.8 Rev 5.4	475305		
92428474008	107-SGE	EPA 200.8 Rev 5.4	475305		
92428474009	108-SGE	EPA 200.8 Rev 5.4	475305		
92428474010	109-SGE	EPA 200.8 Rev 5.4	475305		
92428474011	110-SGE	EPA 200.8 Rev 5.4	475305		
92428474012	111-SGE	EPA 200.8 Rev 5.4	475305		
92428474013	112-SGE	EPA 200.8 Rev 5.4	475305		
92428474014	113-SGE	EPA 200.8 Rev 5.4	475305		
92428474015	114-SGE	EPA 200.8 Rev 5.4	475305		
92428474016	115-SGE	EPA 200.8 Rev 5.4	475305		
92428474017	116-SGE	EPA 200.8 Rev 5.4	475305		
92428474018	117-SGE	EPA 200.8 Rev 5.4	475305		
92428474019	118-SGE	EPA 200.8 Rev 5.4	475305		
92428474020	119-SGE	EPA 200.8 Rev 5.4	475305		
92428474021	120-SGE	EPA 200.8 Rev 5.4	475525		
92428474022	121-SGE	EPA 200.8 Rev 5.4	475525		
92428474023	122-SGE	EPA 200.8 Rev 5.4	475525		
92428474024	123-SGE	EPA 200.8 Rev 5.4	475525		
92428474025	124-SGE	EPA 200.8 Rev 5.4	475525		
92428474026	125-SGE	EPA 200.8 Rev 5.4	475525		
92428474027	126-SGE	EPA 200.8 Rev 5.4	475525		
92428474028	127-SGE	EPA 200.8 Rev 5.4	475893		
92428474029	128-SGE	EPA 200.8 Rev 5.4	475893		
92428474030	129-SGE	EPA 200.8 Rev 5.4	475893		
92428474031	130-SGE	EPA 200.8 Rev 5.4	475893		
92428474032	131-SGE	EPA 200.8 Rev 5.4	475893		
92428474033	132-SGE	EPA 200.8 Rev 5.4	475893		
92428474034	133-SGE	EPA 200.8 Rev 5.4	475893		
92428474035	134-SGE	EPA 200.8 Rev 5.4	475893		
92428474036	135-SGE	EPA 200.8 Rev 5.4	475893		
92428474037	136-SGE	EPA 200.8 Rev 5.4	475893		
92428474038	137-SGE	EPA 200.8 Rev 5.4	475893		
92428474039	138-SGE	EPA 200.8 Rev 5.4	475893		
92428474040	139-SGE	EPA 200.8 Rev 5.4	475893		
92428474041	140-SGE	EPA 200.8 Rev 5.4	475893		
92428474042	141-SGE	EPA 200.8 Rev 5.4	475893		
92428474043	142-SGE	EPA 200.8 Rev 5.4	475893		
92428474044	143-SGE	EPA 200.8 Rev 5.4	475893		
92428474045	144-SGE	EPA 200.8 Rev 5.4	475893		
92428474046	145-SGE	EPA 200.8 Rev 5.4	475893		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

	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: ELS Greensboro

Project #:

WO#: 92428474



Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client
☐ Commercial ☒ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: TF 5-9-19

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): 12.0 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 12.0

☐ 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:

TE
12

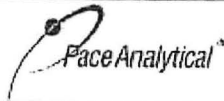
Date:

5/9

Project Manager SRF Review:

Date:

5/9

	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# : 92428474**

PM: PTE

Due Date: 05/17/19

CLIENT: 92-ECS GBORO

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-)	WG6U-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)-5035 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)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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# : 92428474**

PM: PTE

Due Date: 05/17/19

CLIENT: 92-ECS GBORO

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)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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: Sample Condition Upon Receipt (SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-C5-033-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# : 92428474**

PM: PTE

Due Date: 05/17/19

CLIENT: 92-ECS GBORO

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 2N 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)-5035 kit (N/A)	V/BK (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)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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:
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

*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# : 92428474**

PM: PTE

Due Date: 05/17/19

CLIENT: 92-ECS GBORO

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-)	BP3M-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)-5035 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)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 4	
Company: ECS Greensboro		Report To: Abrahamson, Ryan		Attention:		Regulatory Agency:	
Address: 4811 Kroyer Blvd		Copy To:		Company Name:		State / Location:	
Greensboro, NC 27407		Purchase Order #:		Address:		NC	
Email:		Project Name: Lead and Copper - Seagold		Pace Quote:			
Phone:		Project #: 619-8232-A		Pace Project Manager: taylor.azell@pacelabs.com			
Requested Due Date:				Pace Profile #: 1834-5			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Waste Water Product Soil/Sediment Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-5023A, C-5023B)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)										Residual Chrome (Y/N)				
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	H2SO3	Methanol	Other	Analyses Test	Lead and Copper																
						DATE	TIME	DATE	TIME																												
1	100-SGE			DW	G			5/21/19	631		1																										92428474
2	101-SGE								630																												001
3	102-SGE								631																												002
4	103-SGE								629																												003
5	104-SGE								633																												004
6	105-SGE								641																												005
7	106-SGE								646																												006
8	107-SGE								644																												007
9	108-SGE								649																												008
10	109-SGE								651																												009
11	110-SGE								652																												010
12	111-SGE								647																												011
ADDITIONAL COMMENTS						RELINQUISHED BY / AFFILIATION				DATE	TIME	ACCEPTED BY / AFFILIATION				DATE	TIME	SAMPLE CONDITIONS																			
						RC				5/21/19		Abrahamson, Ryan				5/21/19	10:51																				
						RC				5/21/19	10:30	RC				5/21/19	10:30	120	N	N	Y																

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on for (Y/N)	Custody (Y/N)	Residual Chrome (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Ryan Abrahamson						
SIGNATURE of SAMPLER: [Signature]						
DATE Signed: 5/21/19						



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:		Section B Required Project Information:		Section C Invoice Information:		Page: 2 of 4	
Company: ECS Greensboro		Report To: Abrahamson, Ryan		Attention:			
Address: 4811 Koger Blvd		Copy To:		Company Name:			
Greensboro, NC 27407		Purchase Order #:		Address:		Regulatory Agency:	
Email:		Project Name: Lead and Copper - Spring Field		Pace Quote:		State / Location:	
Phone: Fax		Project #: 69-227-A		Pace Project Manager: taylor.ezell@pacelabs.com		NC	
Requested Due Date:				Pace Profile #: 1834-5			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX Distilling Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL CL WP AR OI TS	MATRIX CODE (see valid codes to list)	SAMPLE TYPE (G-GRAB, C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N Analytes Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
						START		END				Unpreserved	H2SO4	HNO3	HCl	H2O2	H2SO3	Methanol	Other	Leads and Copper																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
						DATE	TIME	DATE	TIME											DATE	TIME		DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME		DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Analysis Swabbed Cooler (Y/N)	Samples stored (Y/N)
PRINT Name of SAMPLER: Ryan Abrahamson					
SIGNATURE of SAMPLER:	DATE Signed: 5/7/19				



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:		Section B Required Project Information:		Section C Invoice Information:		Page: 3 of 4	
Company: ECS Greensboro		Report To: Abrahamson Ryan		Attention:		Regulatory Agency:	
Address: 4811 Koger Blvd		Copy To:		Company Name:		State / Location:	
Greensboro, NC 27407		Purchase Order #:		Address:		NC	
Email:		Project Name: Lead and Copper - Set-up		Pace Quote:			
Phone:		Project #: 49-8227-A		Pace Project Manager: taylor.ezell@paceanalytical.com			
Requested Due Date:				Pace Profile #: 1834-5			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product SemiSolid Oil Vapor Air Other Tissue	CODE CW WT WW P SL GL WP AP OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N Analyses Test Lead and Copper	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)					
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other																			
						DATE	TIME	DATE	TIME																													
1	124-SGE					5/7/19	7:28	1	1																									92428474				
2	125-SGE						7:12																											025				
3	126-SGE						7:26																											026				
4	127-SGE						7:4																											027				
5	128-SGE						7:25																											028				
6	129-SGE						7:15																											029				
7	130-SGE						7:23																											030				
8	131-SGE						7:17																											031				
9	132-SGE						7:21																											032				
10	133-SGE						7:18																											033				
11	134-SGE						7:21																											034				
12	135-SGE						7:19																											035				
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION				DATE		TIME		ACCEPTED BY / AFFILIATION				DATE		TIME		SAMPLE CONDITIONS																				
		FTI				5/8/19				Accepted				5/8/19		10:51																						
		C-12				5/8/19		10:30		T-12				5/8/19		10:30		120 N N Y																				

SAMPLER NAME AND SIGNATURE		TEMP in C	Refrigerated on Ice (Y/N)	Coolbox Sealed (Y/N)	Coolbox Closed (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Ryan Abrahamson						
SIGNATURE of SAMPLER: [Signature]						
DATE Signed: 5/7/19						



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:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 4	
Company: ECS Greensboro		Report To: Abrahamson, Ryan		Attention:		Regulatory Agency:	
Address: 4811 Koper Blvd		Copy To:		Company Name:		State / Location:	
Greensboro, NC 27407		Purchase Order #:		Address:		NC	
Email:		Project Name: Lead and Copper - Seagoville		Pace Quote:			
Phone:		Project #: 69-2227-A		Pace Project Manager: taylor.ozell@paceanalytical.com			
Requested Due Date:				Pace Profile #: 1834-S			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -, .) Sample IDs must be unique	MATRIX Drinking Water Waste Waste Water Product Solid/Gel Oil Vape Air Other Tissue	CODE DW WT WW P SL QL VAP AIR OT TS	MATRIX CODE (see vial codes to left)	SAMPLE TYPE (GAS/LAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	Lead and Copper																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
						DATE	TIME	DATE	TIME																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
1	136-SGE			PW	G			5/7/19	7:32		1	A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
		[Signature]		5/12/19		[Signature]		5/12/19	10:51				
		[Signature]		5/8/19	11:30	[Signature]		5-8-19	16:20	126	N	N	Y

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on for (Y/N)	Custody Transfer Complete (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Ryan Abrahamson					
SIGNATURE of SAMPLER: [Signature]	DATE Signed: 5/7/19				

June 01, 2019

John Lair
ECS Limited, LLC

RE: Project: LEAD AND COPPER SEDGEFIELD
Pace Project No.: 92430424

Dear John Lair:

Enclosed are the analytical results for sample(s) received by the laboratory on May 23, 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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

CERTIFICATIONS

Project: LEAD AND COPPER SEDGEFIELD
Pace Project No.: 92430424

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE ANALYTE COUNT

Project: LEAD AND COPPER SEDGEFIELD
Pace Project No.: 92430424

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92430424001	017-R1	EPA 200.8 Rev 5.4	SER	2	PASI-A
92430424002	005-R1	EPA 200.8 Rev 5.4	SER	2	PASI-A
92430424003	135-R1	EPA 200.8 Rev 5.4	SER	2	PASI-A

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: LEAD AND COPPER SEDGEFIELD
Pace Project No.: 92430424

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92430424001	017-R1					
EPA 200.8 Rev 5.4	Copper	22.6	ug/L	5.0	06/01/19 00:05	
92430424003	135-R1					
EPA 200.8 Rev 5.4	Copper	25.4	ug/L	5.0	06/01/19 00:15	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS

Project: LEAD AND COPPER SEDGEFIELD

Pace Project No.: 92430424

Sample: 017-R1		Lab ID: 92430424001	Collected: 05/21/19 15:40		Received: 05/23/19 10:25		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	22.6	ug/L	5.0	1		06/01/19 00:05	7440-50-8	
Lead	ND	ug/L	3.0	1		06/01/19 00:05	7439-92-1	

Sample: 005-R1		Lab ID: 92430424002	Collected: 05/21/19 15:30		Received: 05/23/19 10:25		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	ND	ug/L	5.0	1		06/01/19 00:12	7440-50-8	
Lead	ND	ug/L	3.0	1		06/01/19 00:12	7439-92-1	

Sample: 135-R1		Lab ID: 92430424003	Collected: 05/22/19 15:30		Received: 05/23/19 10:25		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	25.4	ug/L	5.0	1		06/01/19 00:15	7440-50-8	
Lead	ND	ug/L	3.0	1		06/01/19 00:15	7439-92-1	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: LEAD AND COPPER SEDGEFIELD
Pace Project No.: 92430424

QC Batch: 478544 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: 92430424001, 92430424002, 92430424003

METHOD BLANK: 2590488 Matrix: Water
Associated Lab Samples: 92430424001, 92430424002, 92430424003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	ND	5.0	05/31/19 22:55	
Lead	ug/L	ND	3.0	05/31/19 22:55	

LABORATORY CONTROL SAMPLE: 2590489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	50	50.2	100	85-115	
Lead	ug/L	50	49.5	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2590490 2590491

Parameter	Units	92430884001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	222	50	50	269	269	95	93	70-130	0	
Lead	ug/L	19.1	50	50	69.2	69.6	100	101	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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: LEAD AND COPPER SEDGEFIELD

Pace Project No.: 92430424

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: LEAD AND COPPER SEDGEFIELD

Pace Project No.: 92430424

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92430424001	017-R1	EPA 200.8 Rev 5.4	478544		
92430424002	005-R1	EPA 200.8 Rev 5.4	478544		
92430424003	135-R1	EPA 200.8 Rev 5.4	478544		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

	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

Laboratory receiving samples:

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

Sample Condition
Upon Receipt

Client Name:

LaBella Associates

Project

WO# : 92430424

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ Other: _____



92430424

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Date/Initials Person Examining Contents: PM 5/23/19

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☒ None ☐ Other

Biological Tissue Frozen?

☐ Yes ☐ No ☒ N/A

Thermometer: ☒ IR Gun ID: 92T048

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp (°C): 0.5 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

Cooler Temp Corrected (°C): 0.5

☐ 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>MA</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: _____

Date: 5/24

Project Manager SRF Review: _____

Date: 5/24

	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, Collform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

Project #

WO# : 92430424

PM: PTE

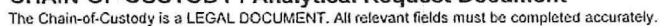
Due Date: 06/04/19

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-)	BP3W-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)	
1																													
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

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.

Page 11 of 11