



November 15, 2023

James Brown
NCDEQ-DWM, UST Section
450 West Hanes Mill Road
Suite 300
Winston Salem, NC 27105

RE: Project: S+E 300 (SW-5W and SW-5EFF)
Pace Project No.: 92698944

Dear James Brown:

Enclosed are the analytical results for sample(s) received by the laboratory between November 08, 2023 and November 15, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,

Angela M. Baioni

Angela Baioni
angela.baioni@pacelabs.com
612-473-6801
Project Manager

Enclosures

cc: Ashley Dinkins, NCDEQ-DWM, UST Section



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

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SAMPLE ANALYTE COUNT

Project: S+E 300 (SW-5W and SW-5EFF)
Pace Project No.: 92698944

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92697586001	SW-5W	SM 6200B	SAS	69	PASI-C
92697586004	SW-5EFF	SM 6200B	SAS	69	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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PROJECT NARRATIVE

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

Method: SM 6200B

Description: 6200B MSV

Client: NCDENR-Division of Water Resources

Date: November 15, 2023

General Information:

2 samples were analyzed for SM 6200B by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 813088

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92697943001

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 4209824)
 - tert-Butyl Formate
- MSD (Lab ID: 4209825)
 - tert-Butyl Formate

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

Sample: SW-5W	Lab ID: 92697586001	Collected: 11/08/23 14:10	Received: 11/08/23 15:59	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	1		11/14/23 13:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		11/14/23 13:08	994-05-8	
Benzene	ND	ug/L	0.50	1		11/14/23 13:08	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/14/23 13:08	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/14/23 13:08	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/14/23 13:08	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/14/23 13:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/14/23 13:08	74-83-9	
tert-Butyl Alcohol	ND	ug/L	50.0	1		11/14/23 13:08	75-65-0	
n-Butylbenzene	ND	ug/L	0.50	1		11/14/23 13:08	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/14/23 13:08	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/14/23 13:08	98-06-6	
tert-Butyl Formate	ND	ug/L	50.0	1		11/14/23 13:08	762-75-4	
Carbon tetrachloride	ND	ug/L	0.50	1		11/14/23 13:08	56-23-5	
Chlorobenzene	ND	ug/L	0.50	1		11/14/23 13:08	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/14/23 13:08	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/14/23 13:08	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/14/23 13:08	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/14/23 13:08	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/14/23 13:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/14/23 13:08	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/14/23 13:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/14/23 13:08	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/14/23 13:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/14/23 13:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/14/23 13:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/14/23 13:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/14/23 13:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/14/23 13:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/14/23 13:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/14/23 13:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/14/23 13:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/14/23 13:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/14/23 13:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/14/23 13:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/14/23 13:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		11/14/23 13:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/14/23 13:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/14/23 13:08	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/14/23 13:08	108-20-3	
Ethanol	ND	ug/L	200	1		11/14/23 13:08	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		11/14/23 13:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		11/14/23 13:08	637-92-3	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/14/23 13:08	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/14/23 13:08	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/14/23 13:08	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

Sample: SW-5W		Lab ID: 92697586001	Collected: 11/08/23 14:10	Received: 11/08/23 15:59	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/14/23 13:08	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/14/23 13:08	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/14/23 13:08	103-65-1	
Styrene	ND	ug/L	0.50	1		11/14/23 13:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/14/23 13:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/14/23 13:08	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/14/23 13:08	127-18-4	
Toluene	ND	ug/L	0.50	1		11/14/23 13:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/14/23 13:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/14/23 13:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/14/23 13:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/14/23 13:08	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/14/23 13:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/14/23 13:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/14/23 13:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/14/23 13:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/14/23 13:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/14/23 13:08	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/14/23 13:08	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/14/23 13:08	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		11/14/23 13:08	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/14/23 13:08	460-00-4	
Toluene-d8 (S)	97	%	70-130	1		11/14/23 13:08	2037-26-5	

Sample: SW-5EFF		Lab ID: 92697586004	Collected: 11/08/23 14:16	Received: 11/08/23 15:59	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	1		11/14/23 14:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		11/14/23 14:03	994-05-8	
Benzene	ND	ug/L	0.50	1		11/14/23 14:03	71-43-2	
Bromobenzene	ND	ug/L	0.50	1		11/14/23 14:03	108-86-1	
Bromochloromethane	ND	ug/L	0.50	1		11/14/23 14:03	74-97-5	
Bromodichloromethane	ND	ug/L	0.50	1		11/14/23 14:03	75-27-4	
Bromoform	ND	ug/L	0.50	1		11/14/23 14:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		11/14/23 14:03	74-83-9	
tert-Butyl Alcohol	ND	ug/L	50.0	1		11/14/23 14:03	75-65-0	
n-Butylbenzene	ND	ug/L	0.50	1		11/14/23 14:03	104-51-8	
sec-Butylbenzene	ND	ug/L	0.50	1		11/14/23 14:03	135-98-8	
tert-Butylbenzene	ND	ug/L	0.50	1		11/14/23 14:03	98-06-6	
tert-Butyl Formate	ND	ug/L	50.0	1		11/14/23 14:03	762-75-4	
Carbon tetrachloride	ND	ug/L	0.50	1		11/14/23 14:03	56-23-5	

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ANALYTICAL RESULTS

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

Sample: SW-5EFF	Lab ID: 92697586004	Collected: 11/08/23 14:16	Received: 11/08/23 15:59	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B						
		Pace Analytical Services - Charlotte						
Chlorobenzene	ND	ug/L	0.50	1		11/14/23 14:03	108-90-7	
Chloroethane	ND	ug/L	1.0	1		11/14/23 14:03	75-00-3	
Chloroform	ND	ug/L	0.50	1		11/14/23 14:03	67-66-3	
Chloromethane	ND	ug/L	1.0	1		11/14/23 14:03	74-87-3	
2-Chlorotoluene	ND	ug/L	0.50	1		11/14/23 14:03	95-49-8	
4-Chlorotoluene	ND	ug/L	0.50	1		11/14/23 14:03	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	1		11/14/23 14:03	96-12-8	
Dibromochloromethane	ND	ug/L	0.50	1		11/14/23 14:03	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	0.50	1		11/14/23 14:03	106-93-4	
Dibromomethane	ND	ug/L	0.50	1		11/14/23 14:03	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	0.50	1		11/14/23 14:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.50	1		11/14/23 14:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.50	1		11/14/23 14:03	106-46-7	
Dichlorodifluoromethane	ND	ug/L	0.50	1		11/14/23 14:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	0.50	1		11/14/23 14:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	0.50	1		11/14/23 14:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	0.50	1		11/14/23 14:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	0.50	1		11/14/23 14:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	0.50	1		11/14/23 14:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	0.50	1		11/14/23 14:03	78-87-5	
1,3-Dichloropropane	ND	ug/L	0.50	1		11/14/23 14:03	142-28-9	
2,2-Dichloropropane	ND	ug/L	0.50	1		11/14/23 14:03	594-20-7	
1,1-Dichloropropene	ND	ug/L	0.50	1		11/14/23 14:03	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	0.50	1		11/14/23 14:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	0.50	1		11/14/23 14:03	10061-02-6	
Diisopropyl ether	ND	ug/L	0.50	1		11/14/23 14:03	108-20-3	
Ethanol	ND	ug/L	200	1		11/14/23 14:03	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		11/14/23 14:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		11/14/23 14:03	637-92-3	
Hexachloro-1,3-butadiene	ND	ug/L	2.0	1		11/14/23 14:03	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	0.50	1		11/14/23 14:03	98-82-8	
Methylene Chloride	ND	ug/L	2.0	1		11/14/23 14:03	75-09-2	
Methyl-tert-butyl ether	ND	ug/L	0.50	1		11/14/23 14:03	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		11/14/23 14:03	91-20-3	
n-Propylbenzene	ND	ug/L	0.50	1		11/14/23 14:03	103-65-1	
Styrene	ND	ug/L	0.50	1		11/14/23 14:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	1		11/14/23 14:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	1		11/14/23 14:03	79-34-5	
Tetrachloroethene	ND	ug/L	0.50	1		11/14/23 14:03	127-18-4	
Toluene	ND	ug/L	0.50	1		11/14/23 14:03	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	2.0	1		11/14/23 14:03	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	2.0	1		11/14/23 14:03	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	0.50	1		11/14/23 14:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	0.50	1		11/14/23 14:03	79-00-5	
Trichloroethene	ND	ug/L	0.50	1		11/14/23 14:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		11/14/23 14:03	75-69-4	

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ANALYTICAL RESULTS

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

Sample: SW-5EFF Lab ID: 92697586004 Collected: 11/08/23 14:16 Received: 11/08/23 15:59 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6200B MSV		Analytical Method: SM 6200B Pace Analytical Services - Charlotte						
1,2,3-Trichloropropane	ND	ug/L	0.50	1		11/14/23 14:03	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	1		11/14/23 14:03	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	1		11/14/23 14:03	108-67-8	
Vinyl chloride	ND	ug/L	1.0	1		11/14/23 14:03	75-01-4	
m&p-Xylene	ND	ug/L	1.0	1		11/14/23 14:03	179601-23-1	
o-Xylene	ND	ug/L	0.50	1		11/14/23 14:03	95-47-6	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		11/14/23 14:03	17060-07-0	
4-Bromofluorobenzene (S)	96	%	70-130	1		11/14/23 14:03	460-00-4	
Toluene-d8 (S)	98	%	70-130	1		11/14/23 14:03	2037-26-5	

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QUALITY CONTROL DATA

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

QC Batch: 813088

Analysis Method: SM 6200B

QC Batch Method: SM 6200B

Analysis Description: 6200B MSV

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92697586001, 92697586004

METHOD BLANK: 4209822

Matrix: Water

Associated Lab Samples: 92697586001, 92697586004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	0.50	11/14/23 12:31	
1,1,1-Trichloroethane	ug/L	ND	0.50	11/14/23 12:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	0.50	11/14/23 12:31	
1,1,2-Trichloroethane	ug/L	ND	0.50	11/14/23 12:31	
1,1-Dichloroethane	ug/L	ND	0.50	11/14/23 12:31	
1,1-Dichloroethene	ug/L	ND	0.50	11/14/23 12:31	
1,1-Dichloropropene	ug/L	ND	0.50	11/14/23 12:31	
1,2,3-Trichlorobenzene	ug/L	ND	2.0	11/14/23 12:31	
1,2,3-Trichloropropane	ug/L	ND	0.50	11/14/23 12:31	
1,2,4-Trichlorobenzene	ug/L	ND	2.0	11/14/23 12:31	
1,2,4-Trimethylbenzene	ug/L	ND	0.50	11/14/23 12:31	
1,2-Dibromo-3-chloropropane	ug/L	ND	1.0	11/14/23 12:31	
1,2-Dibromoethane (EDB)	ug/L	ND	0.50	11/14/23 12:31	
1,2-Dichlorobenzene	ug/L	ND	0.50	11/14/23 12:31	
1,2-Dichloroethane	ug/L	ND	0.50	11/14/23 12:31	
1,2-Dichloropropane	ug/L	ND	0.50	11/14/23 12:31	
1,3,5-Trimethylbenzene	ug/L	ND	0.50	11/14/23 12:31	
1,3-Dichlorobenzene	ug/L	ND	0.50	11/14/23 12:31	
1,3-Dichloropropane	ug/L	ND	0.50	11/14/23 12:31	
1,4-Dichlorobenzene	ug/L	ND	0.50	11/14/23 12:31	
2,2-Dichloropropane	ug/L	ND	0.50	11/14/23 12:31	
2-Chlorotoluene	ug/L	ND	0.50	11/14/23 12:31	
4-Chlorotoluene	ug/L	ND	0.50	11/14/23 12:31	
Benzene	ug/L	ND	0.50	11/14/23 12:31	
Bromobenzene	ug/L	ND	0.50	11/14/23 12:31	
Bromochloromethane	ug/L	ND	0.50	11/14/23 12:31	
Bromodichloromethane	ug/L	ND	0.50	11/14/23 12:31	
Bromoform	ug/L	ND	0.50	11/14/23 12:31	
Bromomethane	ug/L	ND	5.0	11/14/23 12:31	
Carbon tetrachloride	ug/L	ND	0.50	11/14/23 12:31	
Chlorobenzene	ug/L	ND	0.50	11/14/23 12:31	
Chloroethane	ug/L	ND	1.0	11/14/23 12:31	
Chloroform	ug/L	ND	0.50	11/14/23 12:31	
Chloromethane	ug/L	ND	1.0	11/14/23 12:31	
cis-1,2-Dichloroethene	ug/L	ND	0.50	11/14/23 12:31	
cis-1,3-Dichloropropene	ug/L	ND	0.50	11/14/23 12:31	
Dibromochloromethane	ug/L	ND	0.50	11/14/23 12:31	
Dibromomethane	ug/L	ND	0.50	11/14/23 12:31	
Dichlorodifluoromethane	ug/L	ND	0.50	11/14/23 12:31	
Diisopropyl ether	ug/L	ND	0.50	11/14/23 12:31	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

METHOD BLANK: 4209822

Matrix: Water

Associated Lab Samples: 92697586001, 92697586004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethanol	ug/L	ND	200	11/14/23 12:31	
Ethyl-tert-butyl ether	ug/L	ND	10.0	11/14/23 12:31	
Ethylbenzene	ug/L	ND	0.50	11/14/23 12:31	
Hexachloro-1,3-butadiene	ug/L	ND	2.0	11/14/23 12:31	
Isopropylbenzene (Cumene)	ug/L	ND	0.50	11/14/23 12:31	
m&p-Xylene	ug/L	ND	1.0	11/14/23 12:31	
Methyl-tert-butyl ether	ug/L	ND	0.50	11/14/23 12:31	
Methylene Chloride	ug/L	ND	2.0	11/14/23 12:31	
n-Butylbenzene	ug/L	ND	0.50	11/14/23 12:31	
n-Propylbenzene	ug/L	ND	0.50	11/14/23 12:31	
Naphthalene	ug/L	ND	2.0	11/14/23 12:31	
o-Xylene	ug/L	ND	0.50	11/14/23 12:31	
sec-Butylbenzene	ug/L	ND	0.50	11/14/23 12:31	
Styrene	ug/L	ND	0.50	11/14/23 12:31	
tert-Amyl Alcohol	ug/L	ND	100	11/14/23 12:31	
tert-Amylmethyl ether	ug/L	ND	10.0	11/14/23 12:31	
tert-Butyl Alcohol	ug/L	ND	50.0	11/14/23 12:31	
tert-Butyl Formate	ug/L	ND	50.0	11/14/23 12:31	
tert-Butylbenzene	ug/L	ND	0.50	11/14/23 12:31	
Tetrachloroethene	ug/L	ND	0.50	11/14/23 12:31	
Toluene	ug/L	ND	0.50	11/14/23 12:31	
trans-1,2-Dichloroethene	ug/L	ND	0.50	11/14/23 12:31	
trans-1,3-Dichloropropene	ug/L	ND	0.50	11/14/23 12:31	
Trichloroethene	ug/L	ND	0.50	11/14/23 12:31	
Trichlorofluoromethane	ug/L	ND	1.0	11/14/23 12:31	
Vinyl chloride	ug/L	ND	1.0	11/14/23 12:31	
1,2-Dichloroethane-d4 (S)	%	95	70-130	11/14/23 12:31	
4-Bromofluorobenzene (S)	%	95	70-130	11/14/23 12:31	
Toluene-d8 (S)	%	97	70-130	11/14/23 12:31	

LABORATORY CONTROL SAMPLE: 4209823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.1	105	60-140	
1,1,1-Trichloroethane	ug/L	20	20.0	100	60-140	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	60-140	
1,1,2-Trichloroethane	ug/L	20	20.9	105	60-140	
1,1-Dichloroethane	ug/L	20	18.9	94	60-140	
1,1-Dichloroethene	ug/L	20	21.0	105	60-140	
1,1-Dichloropropene	ug/L	20	21.3	107	60-140	
1,2,3-Trichlorobenzene	ug/L	20	21.8	109	60-140	
1,2,3-Trichloropropane	ug/L	20	19.2	96	60-140	
1,2,4-Trichlorobenzene	ug/L	20	21.4	107	60-140	
1,2,4-Trimethylbenzene	ug/L	20	20.9	104	60-140	

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QUALITY CONTROL DATA

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

LABORATORY CONTROL SAMPLE: 4209823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	20	20.0	100	60-140	
1,2-Dibromoethane (EDB)	ug/L	20	20.8	104	60-140	
1,2-Dichlorobenzene	ug/L	20	20.6	103	60-140	
1,2-Dichloroethane	ug/L	20	18.4	92	60-140	
1,2-Dichloropropane	ug/L	20	19.8	99	60-140	
1,3,5-Trimethylbenzene	ug/L	20	20.8	104	60-140	
1,3-Dichlorobenzene	ug/L	20	20.3	102	60-140	
1,3-Dichloropropane	ug/L	20	19.5	98	60-140	
1,4-Dichlorobenzene	ug/L	20	20.0	100	60-140	
2,2-Dichloropropane	ug/L	20	19.5	98	60-140	
2-Chlorotoluene	ug/L	20	19.4	97	60-140	
4-Chlorotoluene	ug/L	20	20.1	100	60-140	
Benzene	ug/L	20	19.7	99	60-140	
Bromobenzene	ug/L	20	19.7	98	60-140	
Bromochloromethane	ug/L	20	20.3	102	60-140	
Bromodichloromethane	ug/L	20	19.4	97	60-140	
Bromoform	ug/L	20	21.4	107	60-140	
Bromomethane	ug/L	20	15.2	76	60-140	
Carbon tetrachloride	ug/L	20	21.3	106	60-140	
Chlorobenzene	ug/L	20	19.8	99	60-140	
Chloroethane	ug/L	20	18.3	92	60-140	
Chloroform	ug/L	20	18.3	91	60-140	
Chloromethane	ug/L	20	16.4	82	60-140	
cis-1,2-Dichloroethene	ug/L	20	18.3	91	60-140	
cis-1,3-Dichloropropene	ug/L	20	20.1	100	60-140	
Dibromochloromethane	ug/L	20	21.1	106	60-140	
Dibromomethane	ug/L	20	21.3	107	60-140	
Dichlorodifluoromethane	ug/L	20	20.6	103	60-140	
Diisopropyl ether	ug/L	20	17.6	88	60-140	
Ethanol	ug/L	800	760	95	60-140	
Ethyl-tert-butyl ether	ug/L	40	34.8	87	60-140	
Ethylbenzene	ug/L	20	19.6	98	60-140	
Hexachloro-1,3-butadiene	ug/L	20	21.6	108	60-140	
Isopropylbenzene (Cumene)	ug/L	20	21.4	107	60-140	
m&p-Xylene	ug/L	40	40.6	102	60-140	
Methyl-tert-butyl ether	ug/L	20	18.3	91	60-140	
Methylene Chloride	ug/L	20	17.1	86	60-140	
n-Butylbenzene	ug/L	20	20.9	105	60-140	
n-Propylbenzene	ug/L	20	19.8	99	60-140	
Naphthalene	ug/L	20	22.3	112	60-140	
o-Xylene	ug/L	20	21.3	106	60-140	
sec-Butylbenzene	ug/L	20	20.6	103	60-140	
Styrene	ug/L	20	21.6	108	60-140	
tert-Amyl Alcohol	ug/L	400	375	94	60-140	
tert-Amylmethyl ether	ug/L	40	38.1	95	60-140	
tert-Butyl Alcohol	ug/L	200	178	89	60-140	
tert-Butyl Formate	ug/L	160	141	88	60-140	

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QUALITY CONTROL DATA

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

LABORATORY CONTROL SAMPLE: 4209823

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	20	16.6	83	60-140	
Tetrachloroethene	ug/L	20	20.8	104	60-140	
Toluene	ug/L	20	19.4	97	60-140	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	60-140	
trans-1,3-Dichloropropene	ug/L	20	19.9	99	60-140	
Trichloroethene	ug/L	20	20.8	104	60-140	
Trichlorofluoromethane	ug/L	20	20.8	104	60-140	
Vinyl chloride	ug/L	20	16.5	83	60-140	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4209824 4209825

Parameter	92697943001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	24.0	23.8	120	119	60-140	1	
1,1,1-Trichloroethane	ug/L	ND	20	20	23.2	23.6	116	118	60-140	2	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.7	22.0	109	110	60-140	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	22.1	22.4	110	112	60-140	1	
1,1-Dichloroethane	ug/L	ND	20	20	21.5	21.9	108	110	60-140	2	
1,1-Dichloroethene	ug/L	ND	20	20	24.0	24.8	120	124	60-140	3	
1,1-Dichloropropene	ug/L	ND	20	20	24.7	25.4	124	127	60-140	3	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	22.9	25.8	115	129	60-140	12	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.2	20.1	101	100	60-140	1	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	23.6	25.3	118	127	60-140	7	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.4	23.8	117	119	60-140	2	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.7	21.6	108	108	60-140	0	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	22.9	22.6	115	113	60-140	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	22.7	23.3	114	116	60-140	2	
1,2-Dichloroethane	ug/L	ND	20	20	20.1	20.5	100	103	60-140	2	
1,2-Dichloropropane	ug/L	ND	20	20	21.8	22.2	109	111	60-140	2	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.0	23.6	115	118	60-140	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	22.8	22.9	114	114	60-140	0	
1,3-Dichloropropane	ug/L	ND	20	20	21.4	21.2	107	106	60-140	1	
1,4-Dichlorobenzene	ug/L	ND	20	20	22.3	22.5	112	113	60-140	1	
2,2-Dichloropropane	ug/L	ND	20	20	21.7	22.3	108	111	60-140	3	
2-Chlorotoluene	ug/L	ND	20	20	22.1	22.2	110	111	60-140	1	
4-Chlorotoluene	ug/L	ND	20	20	22.3	22.5	112	113	60-140	1	
Benzene	ug/L	ND	20	20	22.0	22.5	110	112	60-140	2	
Bromobenzene	ug/L	ND	20	20	22.8	22.5	114	112	60-140	1	
Bromochloromethane	ug/L	ND	20	20	22.8	22.9	114	114	60-140	1	
Bromodichloromethane	ug/L	ND	20	20	21.2	21.5	106	108	60-140	1	
Bromoform	ug/L	ND	20	20	23.1	22.3	115	111	60-140	3	
Bromomethane	ug/L	ND	20	20	17.6	19.1	88	96	60-140	8	

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QUALITY CONTROL DATA

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

Parameter	92697943001		MS		MSD		MS		MSD		% Rec	Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Carbon tetrachloride	ug/L	ND	20	20	24.7	24.8	123	124	60-140	0				
Chlorobenzene	ug/L	ND	20	20	22.8	22.6	114	113	60-140	1				
Chloroethane	ug/L	ND	20	20	21.3	21.5	107	107	60-140	1				
Chloroform	ug/L	ND	20	20	21.3	21.7	107	109	60-140	2				
Chloromethane	ug/L	ND	20	20	19.5	19.7	98	99	60-140	1				
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.1	21.5	105	108	60-140	2				
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.1	21.1	105	106	60-140	0				
Dibromochloromethane	ug/L	ND	20	20	23.2	23.1	116	116	60-140	0				
Dibromomethane	ug/L	ND	20	20	22.9	23.2	114	116	60-140	1				
Dichlorodifluoromethane	ug/L	ND	20	20	24.2	24.6	121	123	60-140	2				
Diisopropyl ether	ug/L	ND	20	20	19.0	19.7	95	98	60-140	4				
Ethanol	ug/L	ND	800	800	760	773	95	97	60-140	2				
Ethyl-tert-butyl ether	ug/L	ND	40	40	36.4	37.7	91	94	60-140	4				
Ethylbenzene	ug/L	ND	20	20	22.5	22.5	113	113	60-140	0				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	25.5	26.9	128	134	60-140	5				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	24.2	24.4	121	122	60-140	1				
m&p-Xylene	ug/L	ND	40	40	46.0	45.9	115	115	60-140	0				
Methyl-tert-butyl ether	ug/L	ND	20	20	18.9	19.6	94	98	60-140	4				
Methylene Chloride	ug/L	ND	20	20	18.7	19.1	93	96	60-140	2				
n-Butylbenzene	ug/L	ND	20	20	23.9	24.9	120	125	60-140	4				
n-Propylbenzene	ug/L	ND	20	20	22.4	22.9	112	115	60-140	2				
Naphthalene	ug/L	ND	20	20	24.1	26.6	121	133	60-140	10				
o-Xylene	ug/L	ND	20	20	23.5	23.4	118	117	60-140	1				
sec-Butylbenzene	ug/L	ND	20	20	23.3	24.0	116	120	60-140	3				
Styrene	ug/L	ND	20	20	24.2	24.1	121	120	60-140	1				
tert-Amyl Alcohol	ug/L	ND	400	400	364	356	91	89	60-140	2				
tert-Amylmethyl ether	ug/L	ND	40	40	39.1	39.7	98	99	60-140	2				
tert-Butyl Alcohol	ug/L	ND	200	200	260	276	130	138	60-140	6				
tert-Butyl Formate	ug/L	ND	160	160	24.8J	9.5J	15	6	60-140			P5		
tert-Butylbenzene	ug/L	ND	20	20	19.2	19.7	96	99	60-140	3				
Tetrachloroethene	ug/L	ND	20	20	24.0	24.0	120	120	60-140	0				
Toluene	ug/L	ND	20	20	21.7	22.0	109	110	60-140	1				
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.0	22.6	110	113	60-140	3				
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.0	21.3	105	107	60-140	1				
Trichloroethene	ug/L	ND	20	20	24.0	24.3	120	122	60-140	1				
Trichlorofluoromethane	ug/L	ND	20	20	24.4	24.9	122	125	60-140	2				
Vinyl chloride	ug/L	ND	20	20	19.6	20.0	98	100	60-140	2				
1,2-Dichloroethane-d4 (S)	%						93	93	70-130					
4-Bromofluorobenzene (S)	%						98	98	70-130					
Toluene-d8 (S)	%						97	97	70-130					

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QUALIFIERS

Project: S+E 300 (SW-5W and SW-5EFF)

Pace Project No.: 92698944

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

P5 The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: S+E 300 (SW-5W and SW-5EFF)
Pace Project No.: 92698944

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92697586001	SW-5W	SM 6200B	813088		
92697586004	SW-5EFF	SM 6200B	813088		

REPORT OF LABORATORY ANALYSIS

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Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: MCDEQ

Project #: **WO# : 92697586**



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: AV 11/18/23

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 927020 Type of Ice: Wet Blue None

Cooler Temp: 3.7 Correction Factor: Add/Subtract (°C) -0

Temp should be above freezing to 6°C
 Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 3.7

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

Project Manager SRF Review: _____ Date: _____



Effective Date: 11/14/2022

*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 bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92697586

PM: AMB

Due Date: 11/09/23

CLIENT: 92-NC DENR WR

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)	BP4B-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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (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)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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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 DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

