



July 18, 2025

Timmy Lynn
City of Cullman Water and Waste (UCMR5)
1717 Eva Road
Cullman, AL 35055

RE: Project: UCMR5_SE2_Jun2025
Pace Project No.: 35963025

Dear Timmy Lynn:

Enclosed are the analytical results for sample(s) received by the laboratory on June 17, 2025. 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 - Ormond Beach

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

Sincerely,

A handwritten signature in black ink that reads "Rebecca Selph".

Rebecca Selph
rebecca.selph@pacelabs.com
(386)672-5668
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: UCMR5_SE2_Jun2025

Pace Project No.: 35963025

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

California Certification# 3096

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

DoD-ANAB #:ADE-3199

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Massachusetts Certification #: M-FL1264

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

Nevada Certification: FL NELAC Reciprocity

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Utah

Utah FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

Washington Certification #: C955

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: UCMR5_SE2_Jun2025
Pace Project No.: 35963025

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35963025001	07978 Cullman Utilities Intert	Drinking Water	06/16/25 09:09	06/17/25 11:30
35963025002	FRB-07978 Cullman Utilities In	Drinking Water	06/16/25 08:59	06/17/25 11:30

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SAMPLE ANALYTE COUNT

Project: UCMR5_SE2_Jun2025
Pace Project No.: 35963025

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35963025001	07978	Cullman Utilities Intert			
		EPA 200.7	ASB	1	PASI-O
		EPA 533	TSW	41	PASI-O
		EPA 537.1	HL	8	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

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ANALYTICAL RESULTS

Project: UCMR5_SE2_Jun2025

Pace Project No.: 35963025

Sample: 07978 Cullman Utilities Lab ID: 35963025001 Collected: 06/16/25 09:09 Received: 06/17/25 11:30 Matrix: Drinking Water
Intert

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.7 MET ICP, UCMR									
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7									
Initial Volume/Weight: 50 mL Final Volume/Weight: 50 mL									
Pace Analytical Services - Ormond Beach									
Lithium	7.5 U	ug/L	22.5	7.5	2.5	06/26/25 03:49	07/16/25 09:52	7439-93-2	N2
533 PFAS Compounds, UCMR									
Analytical Method: EPA 533 Preparation Method: EPA 533									
Initial Volume/Weight: 271.19 mL Final Volume/Weight: 1 mL									
Pace Analytical Services - Ormond Beach									
11CI-PF3OUDS	0.0015 U	ug/L	0.0046	0.0015	1	06/18/25 00:03	06/18/25 23:23	763051-92-9	
4:2 FTS	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	757124-72-4	
6:2 FTS	0.0015 U	ug/L	0.0046	0.0015	1	06/18/25 00:03	06/18/25 23:23	27619-97-2	
8:2 FTS	0.0015 U	ug/L	0.0046	0.0015	1	06/18/25 00:03	06/18/25 23:23	39108-34-4	
9CI-PF3ONS	0.0006 U	ug/L	0.0018	0.0006	1	06/18/25 00:03	06/18/25 23:23	756426-58-1	
ADONA	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	919005-14-4	
HFPO-DA	0.0015 U	ug/L	0.0046	0.0015	1	06/18/25 00:03	06/18/25 23:23	13252-13-6	
NFDHA	0.0061 U	ug/L	0.018	0.0061	1	06/18/25 00:03	06/18/25 23:23	151772-58-6	
PFBS	0.0009 I	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	375-73-5	
PFDA	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	335-76-2	
PFHxA	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	307-24-4	
PFBA	0.0029 I	ug/L	0.0046	0.0015	1	06/18/25 00:03	06/18/25 23:23	375-22-4	
PFEESA	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	113507-82-7	
PFHpS	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	375-92-8	
PFMBA	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	863090-89-5	
PFMPA	0.0012 U	ug/L	0.0037	0.0012	1	06/18/25 00:03	06/18/25 23:23	377-73-1	
PFPeA	0.0009 I	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	2706-90-3	
PFPeS	0.0012 U	ug/L	0.0037	0.0012	1	06/18/25 00:03	06/18/25 23:23	2706-91-4	
PFDoA	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	307-55-1	
PFHpA	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	375-85-9	
PFHxS	0.0009 U	ug/L	0.0028	0.0009	1	06/18/25 00:03	06/18/25 23:23	355-46-4	
PFNA	0.0012 U	ug/L	0.0037	0.0012	1	06/18/25 00:03	06/18/25 23:23	375-95-1	
PFOS	0.0018 I	ug/L	0.0037	0.0012	1	06/18/25 00:03	06/18/25 23:23	1763-23-1	
PFOA	0.0012 U	ug/L	0.0037	0.0012	1	06/18/25 00:03	06/18/25 23:23	335-67-1	
PFUnA	0.0006 U	ug/L	0.0018	0.0006	1	06/18/25 00:03	06/18/25 23:23	2058-94-8	
Surrogates									
13C24:2FTS (S)	164	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C26:2FTS (S)	130	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C28:2FTS (S)	111	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C2-PFDoA (S)	94	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C3HFPO-DA(S)	99	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C3-PFBS (S)	100	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C3-PFHxS (S)	108	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C4-PFBA (S)	113	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C4-PFHpA (S)	108	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C5-PFHxA (S)	97	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C5-PFPeA (S)	75	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C6-PFDA (S)	97	%	50-200		1	06/18/25 00:03	06/18/25 23:23		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UCMR5_SE2_Jun2025

Pace Project No.: 35963025

Sample: 07978 Cullman Utilities Lab ID: 35963025001 Collected: 06/16/25 09:09 Received: 06/17/25 11:30 Matrix: Drinking Water
Intert

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
533 PFAS Compounds, UCMR									
Analytical Method: EPA 533 Preparation Method: EPA 533									
Initial Volume/Weight: 271.19 mL Final Volume/Weight: 1 mL									
Pace Analytical Services - Ormond Beach									
Surrogates									
13C7-PFUDA (S)	94	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C8-PFOA (S)	106	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C8-PFOS (S)	109	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
13C9-PFNA (S)	105	%	50-200		1	06/18/25 00:03	06/18/25 23:23		
537.1 PFAS Compounds, UCMR									
Analytical Method: EPA 537.1 Preparation Method: EPA 537.1									
Initial Volume/Weight: 260.17 mL Final Volume/Weight: 1 mL									
Pace Analytical Services - Ormond Beach									
NEtFOSAA	0.0016 U	ug/L	0.0058	0.0016	1	06/25/25 00:13	06/25/25 19:12	2991-50-6	
NMeFOSAA	0.0019 U	ug/L	0.0058	0.0019	1	06/25/25 00:13	06/25/25 19:12	2355-31-9	
PFTeDA	0.0026 U	ug/L	0.0077	0.0026	1	06/25/25 00:13	06/25/25 19:12	376-06-7	
PFTrDA	0.0023 U	ug/L	0.0067	0.0023	1	06/25/25 00:13	06/25/25 19:12	72629-94-8	
Surrogates									
13C2-PFDA (S)	82	%	70-130		1	06/25/25 00:13	06/25/25 19:12		
13C2-PFHxA (S)	73	%	70-130		1	06/25/25 00:13	06/25/25 19:12		
NEtFOSAA-d5 (S)	84	%	70-130		1	06/25/25 00:13	06/25/25 19:12		
HFPO-DAS (S)	73	%	70-130		1	06/25/25 00:13	06/25/25 19:12		

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QUALITY CONTROL DATA

Project: UCMR5_SE2_Jun2025

Pace Project No.: 35963025

QC Batch: 1108923

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 MET Drinking Water

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35963025001

METHOD BLANK: 6082091

Matrix: Drinking Water

Associated Lab Samples: 35963025001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	ug/L	7.5 U	22.5	7.5	07/16/25 09:31	N2

LABORATORY CONTROL SAMPLE: 6082092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	ug/L	9	9.5 I	106	50-150	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 6082093 6082094

Parameter	Units	35963022001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	ug/L	7.5 U	9	9	13.1 I	13.3 I	102	104	0-200		30	N2

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QUALITY CONTROL DATA

Project: UCMR5_SE2_Jun2025
Pace Project No.: 35963025

QC Batch:	1106693	Analysis Method:	EPA 533
QC Batch Method:	EPA 533	Analysis Description:	533 PFAS Compounds, UCMR
		Laboratory:	Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35963025001

METHOD BLANK: 6071111 Matrix: Drinking Water

Associated Lab Samples: 35963025001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
11CI-PF3OUdS	ug/L	0.0017 U	0.0050	0.0017	06/18/25 22:01	
4:2 FTS	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
6:2 FTS	ug/L	0.0017 U	0.0050	0.0017	06/18/25 22:01	
8:2 FTS	ug/L	0.0017 U	0.0050	0.0017	06/18/25 22:01	
9CI-PF3ONS	ug/L	0.0007 U	0.0020	0.0007	06/18/25 22:01	
ADONA	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
HFPO-DA	ug/L	0.0017 U	0.0050	0.0017	06/18/25 22:01	
NFDHA	ug/L	0.0067 U	0.020	0.0067	06/18/25 22:01	
PFBA	ug/L	0.0017 U	0.0050	0.0017	06/18/25 22:01	
PFBS	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFDA	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFDaA	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFEESA	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFHpA	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFHpS	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFHxA	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFHxS	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFMBA	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFMPA	ug/L	0.0013 U	0.0040	0.0013	06/18/25 22:01	
PFNA	ug/L	0.0013 U	0.0040	0.0013	06/18/25 22:01	
PFOA	ug/L	0.0013 U	0.0040	0.0013	06/18/25 22:01	
PFOS	ug/L	0.0013 U	0.0040	0.0013	06/18/25 22:01	
PFPeA	ug/L	0.0010 U	0.0030	0.0010	06/18/25 22:01	
PFPeS	ug/L	0.0013 U	0.0040	0.0013	06/18/25 22:01	
PFUnA	ug/L	0.0007 U	0.0020	0.0007	06/18/25 22:01	
13C2-PFDaA (S)	%	97	50-200		06/18/25 22:01	
13C24:2FTS (S)	%	104	50-200		06/18/25 22:01	
13C26:2FTS (S)	%	94	50-200		06/18/25 22:01	
13C28:2FTS (S)	%	90	50-200		06/18/25 22:01	
13C3-PFBS (S)	%	106	50-200		06/18/25 22:01	
13C3-PFHxS (S)	%	103	50-200		06/18/25 22:01	
13C3HFPO-DA(S)	%	97	50-200		06/18/25 22:01	
13C4-PFBA (S)	%	104	50-200		06/18/25 22:01	
13C4-PFHpA (S)	%	107	50-200		06/18/25 22:01	
13C5-PFHxA (S)	%	107	50-200		06/18/25 22:01	
13C5-PFPeA (S)	%	105	50-200		06/18/25 22:01	
13C6-PFDA (S)	%	101	50-200		06/18/25 22:01	
13C7-PFUDa (S)	%	96	50-200		06/18/25 22:01	
13C8-PFOA (S)	%	107	50-200		06/18/25 22:01	
13C8-PFOS (S)	%	107	50-200		06/18/25 22:01	

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QUALITY CONTROL DATA

Project: UCMR5_SE2_Jun2025
Pace Project No.: 35963025

METHOD BLANK: 6071111 Matrix: Drinking Water
Associated Lab Samples: 35963025001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
13C9-PFNA (S)	%	107	50-200		06/18/25 22:01	

LABORATORY CONTROL SAMPLE: 6071112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/L	0.0019	0.0017 U	88	50-150	
4:2 FTS	ug/L	0.0019	0.0022 I	114	50-150	
6:2 FTS	ug/L	0.0019	0.0019 I	98	50-150	
8:2 FTS	ug/L	0.0019	0.0020 I	103	50-150	
9CI-PF3ONS	ug/L	0.0019	0.0017 I	87	50-150	
ADONA	ug/L	0.0019	0.0018 I	92	50-150	
HFPO-DA	ug/L	0.002	0.0023 I	113	50-150	
NFDHA	ug/L	0.02	0.019 I	97	50-150	
PFBA	ug/L	0.002	0.0022 I	109	50-150	
PFBS	ug/L	0.0018	0.0017 I	95	50-150	
PFDA	ug/L	0.002	0.0019 I	94	50-150	
PFDaA	ug/L	0.002	0.0018 I	92	50-150	
PFEESA	ug/L	0.0018	0.0017 I	94	50-150	
PFHpA	ug/L	0.002	0.0020 I	99	50-150	
PFHpS	ug/L	0.0019	0.0019 I	98	50-150	
PFHxA	ug/L	0.002	0.0020 I	99	50-150	
PFHxS	ug/L	0.0018	0.0020 I	110	50-150	
PFMBA	ug/L	0.002	0.0020 I	101	50-150	
PFMPA	ug/L	0.002	0.0019 I	97	50-150	
PFNA	ug/L	0.002	0.0019 I	96	50-150	
PFOA	ug/L	0.002	0.0017 I	87	50-150	
PFOS	ug/L	0.0019	0.0019 I	99	50-150	
PFPeA	ug/L	0.002	0.0018 I	92	50-150	
PFPeS	ug/L	0.0019	0.0021 I	109	50-150	
PFUnA	ug/L	0.002	0.0018 I	90	50-150	
13C2-PFDaA (S)	%			91	50-200	
13C24:2FTS (S)	%			98	50-200	
13C26:2FTS (S)	%			87	50-200	
13C28:2FTS (S)	%			84	50-200	
13C3-PFBS (S)	%			98	50-200	
13C3-PFHxS (S)	%			95	50-200	
13C3HFPO-DA(S)	%			93	50-200	
13C4-PFBA (S)	%			94	50-200	
13C4-PFHpA (S)	%			96	50-200	
13C5-PFHxA (S)	%			94	50-200	
13C5-PFPeA (S)	%			94	50-200	
13C6-PFDA (S)	%			91	50-200	
13C7-PFUdA (S)	%			91	50-200	
13C8-PFOA (S)	%			96	50-200	

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QUALITY CONTROL DATA

Project: UCMR5_SE2_Jun2025

Pace Project No.: 35963025

LABORATORY CONTROL SAMPLE: 6071112

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
13C8-PFOS (S)	%			98	50-200	
13C9-PFNA (S)	%			94	50-200	

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QUALITY CONTROL DATA

Project: UCMR5_SE2_Jun2025

Pace Project No.: 35963025

QC Batch: 1108535

QC Batch Method: EPA 537.1

Analysis Method: EPA 537.1

Analysis Description: 537.1 PFOA Compounds, UCMR

Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 35963025001

METHOD BLANK: 6080249

Matrix: Water

Associated Lab Samples: 35963025001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
NEtFOSAA	ug/L	0.0017 U	0.0060	0.0017	06/25/25 18:40	
NMeFOSAA	ug/L	0.0020 U	0.0060	0.0020	06/25/25 18:40	
PFTeDA	ug/L	0.0027 U	0.0080	0.0027	06/25/25 18:40	
PFTrDA	ug/L	0.0024 U	0.0070	0.0024	06/25/25 18:40	
13C2-PFDA (S)	%	78	70-130		06/25/25 18:40	
13C2-PFHxA (S)	%	82	70-130		06/25/25 18:40	
HFPO-DAS (S)	%	81	70-130		06/25/25 18:40	
NEtFOSAA-d5 (S)	%	78	70-130		06/25/25 18:40	

LABORATORY CONTROL SAMPLE: 6080250

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
NEtFOSAA	ug/L	0.005	0.0045 I	91	50-150	
NMeFOSAA	ug/L	0.006	0.0052 I	86	50-150	
PFTeDA	ug/L	0.008	0.0072 I	90	50-150	
PFTrDA	ug/L	0.007	0.0064 I	92	50-150	
13C2-PFDA (S)	%			83	70-130	
13C2-PFHxA (S)	%			84	70-130	
HFPO-DAS (S)	%			87	70-130	
NEtFOSAA-d5 (S)	%			82	70-130	

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

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



QUALIFIERS

Project: UCMR5_SE2_Jun2025
Pace Project No.: 35963025

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
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.
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

I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U	Compound was analyzed for but not detected.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UCMR5_SE2_Jun2025
Pace Project No.: 35963025

Lab ID	Sample ID		QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35963025001	07978	Cullman Utilities Intert	EPA 200.7	1108923	EPA 200.7	1109029
35963025001	07978	Cullman Utilities Intert	EPA 533	1106693	EPA 533	1106769
35963025001	07978	Cullman Utilities Intert	EPA 537.1	1108535	EPA 537.1	1108793

REPORT OF LABORATORY ANALYSIS

Pace®
Pace® Location Requested (City/State):
Pace Analytical Ormond Beach
8 East Tower Circle, Ormond Beach, FL 32174

Company Name: City of Cullman Water & Waste-UCMR5
Street Address: 1717 Eva Road
Cullman, AL 35055

Customer Project #: UCMRS_SE2_Jun2025
Project Name:

Site Collection Info/Facility ID (as applicable):

Time Zone Collected: [] AK [] PT [] MT [X] CT [] ET
Data Deliverables: Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [] Yes [] No

[] Level II [] Level III [] Level IV
[] EQUIS
[] Other:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID
Matrix * Comp / Grab Date Time Composite Start Date Time Collected or Composite End Date Time # Res. Chlorine Results Units

07978Cullman Utilities Intertie DW X 6-16-25 0801 6-16-25 0809 9 1.62 mg/L
FRB-07978Cullman Utilities Intertie DW X 6-16-25 0750 6-16-25 0759 2 1.62 mg/L

FRB Instructions: Make sure to transfer the provided DI water/PFAS free water into the empty container right at the sampling site. Empty container provided looks empty, but it has preservation agent- so DO NOT rinse or pour it out. FRBs should not be filled with sample water. FRB should return with only one filled container/method once completed.

Temp Requirements: Sample early in the morning and place samples in a refrigerator or cooler for 4 hours. Immediately after sampling to allow lowering of core temperature during hot summer months in FL. EPA requires sample receipt under 10C. Pack cooler tightly with ice. OOT receipt of samples WILL require resampling per EPA guidelines.

Additional Instructions from Pace®:
UCMR5 is for testing finished drinking water ONLY. Please fill containers up to the bottom thread of the container cap. Prior to shipping, please refrigerate the samples for 4-5 hours immediately after sampling. Ship samples on Monday thru Wednesday only, overnight shipping label included.

Relinquished by/Company: (Signature) Joshua Criddle
Date/Time: 6-16-25 13:00
Signature: Joshua Criddle

Relinquished by/Company: (Signature)
Date/Time:
Signature:

Relinquished by/Company: (Signature)
Date/Time:
Signature:

Relinquished by/Company: (Signature)
Date/Time:
Signature:

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Contact/Report To: Timmy Lynn
Phone #: 256-338-3251
E-Mail: tlynn@cullmanal.gov
Cc E-Mail:

Invoice To: Timmy Lynn
Invoice E-Mail: tlynn@cullmanal.gov
Purchase Order # (if applicable):
Quote #:

County / State origin of sample(s): Alabama

Rush (Pre-approval required):
[X] Same Day [] 1 Day [] 2 Day [] 3 Day [] Other AL0001786

Date Results Requested: 25 BD TAT

Field Filtered (if applicable): [] Yes [] No

Analysis:

533 FRB

533 PFAS Compounds, UCMR

537.1 FRB

537.1 PFAS Compounds, UCMR

200.7 MET ICP, UCMR

QOS

Proj. Mgr: Rebecca Selph

AcctNum / Client ID:

Table #:

Profile / Template: 18086

Prelog / Bottle Ord. ID: EZ 3259733

Sample Comment

Preservation non-conformance identified for sample

*** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL, (7) 20mL, (8) 10mL, (9) 5mL, (10) Other

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Identify Container Preservative Type***

Analysis Requested

W0#: 35963025



Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

533 FRB

533 PFAS Compounds, UCMR

537.1 FRB

537.1 PFAS Compounds, UCMR

200.7 MET ICP, UCMR

QOS

Proj. Mgr: Rebecca Selph

AcctNum / Client ID:

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533 PFAS Compounds, UCMR

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537.1 PFAS Compounds, UCMR

200.7 MET ICP, UCMR

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537.1 FRB

537.1 PFAS Compounds, UCMR

200.7 MET ICP, UCMR

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Identify Container Preservative Type***

WO#: 35963025

PM: RJS

Due Date: 07/23/25

CLIENT: CULLMANWW

Project #

Project Manager:

Client:

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

☐ Other:

Tracking # 4348 2257 5020

Custody Seal: ☒ Yes ☐ No

Seal intact: ☒ Yes ☐ No

Ice: ☒ Yes ☐ No

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

		Comments
Chain of Custody Present	☒ Yes ☐ No	
Chain of Custody Completed	☒ Yes ☐ No	
Relinquished & Sampler Signature	☐ Yes ☐ No	
Samples Arrived within Hold Time	☒ Yes ☐ No	
Sufficient Volume	☒ Yes ☐ No	
Correct Containers Used	☒ Yes ☐ No	
Containers Intact	☒ Yes ☐ No	
Sample Labels match CQC	☐ Yes ☒ No	collection date/time rubbed off containers
Samples received ≤48 hr from collection?	☐ Yes ☐ No	
If no, were samples kept ≤6°C after 48 hrs of collection?	☐ Yes ☐ No	
Person contacted for verification		

Temperature Verification

Initials: RJS

Date: 6/17/25

Time: 1145

IR Gun ID: T-427

CF (°C): +0.1

	Observed (°C)	Corrected (°C)	Comments
EPA 533	4.2	4.3	
EPA 537.1	3.8	3.9	

Preservation Verification

pH strip: H0441704

pH meter: SR-3

Free Cl Strip/DPD: 250507

Cl Meter: SR-1

200.7 Lab Preserved: Nitric Acid:

Date/Time:

Initials:

Sample/Container ID	pH				Free Chlorine**		Comments
	533* (pH 6.0-8.0)	537.1 (pH 6.0-8.0)	200.7 (pH <2)	200.7 Lab Preserved	533	537.1	
07978 Cullman Util 1/4	6.9	7.5	2.2		ND	ND	
" 2/4	6.9	7.5			ND	ND	
" 3/4	6.9	7.5			ND	ND	
" 4/4	6.7	7.5			ND	ND	
FBB- 11	6.7	7.4			ND	ND	

*533 pH may be adjusted at the bench prior to extraction.

** ND = <0.1 mg/L

Labeled by: EASI

Reviewed by: BUI

Delivered by: