

December 05, 2022

Randy Evans
Wellington Operating Company
328 South Overland Trail
Fort Collins, CO 80521

RE: Project: WPWT
Pace Project No.: 10629359

Dear Randy Evans:

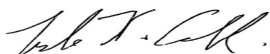
Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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 - Minneapolis

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

Sincerely,



Lyle Cable
lyle.cable@pacelabs.com
(612)607-1700
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: WPWT

Pace Project No.: 10629359

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

A2LA Certification #: 2926.01*

1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009*

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014*

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605*

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086*

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064*

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137*

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240*

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081*

New Jersey Certification #: MN002

New York Certification #: 11647*

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Ohio VAP Certification (1800) #: CL110*

Oklahoma Certification #: 9507*

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001*

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192*

Utah Certification #: MN00064*

Vermont Certification #: VT-027053137

Virginia Certification #: 460163*

Washington Certification #: C486*

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification #: via A2LA 2926.01

USDA Permit #: P330-19-00208

Please Note: Applicable air certifications are denoted with an asterisk ().

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: WPWT
Pace Project No.: 10629359

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10629359001	OUTFALL 050A #767702	EPA 6010D	IP	3	PASI-M
		SM 2540C	RM3	1	PASI-M
		EPA 300.0	AR3	3	PASI-M
10629359002	OUTFALL 050B #767706	EPA 6010D	IP	3	PASI-M
		EPA 8260D	NMB	10	PASI-M
		SM 2540C	RM3	1	PASI-M
10629359003	OUTFALL 050C #767703	EPA 300.0	AR3	3	PASI-M
		EPA 6010D	IP	3	PASI-M
		SM 2540C	RM3	1	PASI-M
10629359004	OUTFALL 050D #767704	EPA 300.0	AR3	3	PASI-M
		EPA 6010D	IP	3	PASI-M
		SM 2540C	RM3	1	PASI-M
10629359005	OUTFALL 050E #767705	EPA 300.0	AR3	3	PASI-M
		EPA 6010D	IP	3	PASI-M
		SM 2540C	RM3	1	PASI-M
		EPA 300.0	AR3	3	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

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: WPWT
Pace Project No.: 10629359

Sample: OUTFALL 050A #767702		Lab ID: 10629359001		Collected: 10/10/22 11:20		Received: 10/12/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Barium	641	ug/L	10.0	1	10/18/22 14:26	10/19/22 15:08	7440-39-3		
Boron	198	ug/L	150	1	10/18/22 14:26	10/19/22 15:08	7440-42-8		
Sodium	44100	ug/L	1000	1	10/18/22 14:26	10/19/22 15:08	7440-23-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	1160	mg/L	20.0	1		10/14/22 16:08			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	17.2	mg/L	1.2	1		10/26/22 04:27	16887-00-6		
Fluoride	0.69	mg/L	0.050	1		10/26/22 04:27	16984-48-8		
Sulfate	505	mg/L	12.0	10		10/26/22 15:59	14808-79-8		

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: WPWT
Pace Project No.: 10629359

Sample: OUTFALL 050B #767706		Lab ID: 10629359002		Collected: 10/10/22 12:20		Received: 10/12/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Barium	221	ug/L	10.0	1	10/18/22 14:26	10/19/22 15:22	7440-39-3		
Boron	520	ug/L	150	1	10/18/22 14:26	10/19/22 15:22	7440-42-8		
Sodium	165000	ug/L	1000	1	10/18/22 14:26	10/19/22 15:22	7440-23-5		
8260D MSV UST		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Benzene	ND	ug/L	1.0	1		10/14/22 17:39	71-43-2		
Ethylbenzene	ND	ug/L	1.0	1		10/14/22 17:39	100-41-4		
Naphthalene	ND	ug/L	1.0	1		10/14/22 17:39	91-20-3		
Toluene	ND	ug/L	1.0	1		10/14/22 17:39	108-88-3		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		10/14/22 17:39	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		10/14/22 17:39	108-67-8		
Xylene (Total)	ND	ug/L	3.0	1		10/14/22 17:39	1330-20-7		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125	1		10/14/22 17:39	2199-69-1		
4-Bromofluorobenzene (S)	98	%.	75-125	1		10/14/22 17:39	460-00-4		
Toluene-d8 (S)	102	%.	75-125	1		10/14/22 17:39	2037-26-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	864	mg/L	18.2	1		10/14/22 16:08			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	91.9	mg/L	1.2	1		10/26/22 04:40	16887-00-6		
Fluoride	1.2	mg/L	0.050	1		10/26/22 04:40	16984-48-8		
Sulfate	108	mg/L	2.4	2		10/26/22 16:22	14808-79-8		

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: WPWT
Pace Project No.: 10629359

Sample: OUTFALL 050C #767703		Lab ID: 10629359003		Collected: 10/10/22 10:10		Received: 10/12/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Barium	234	ug/L	10.0	1	10/18/22 14:26	10/19/22 15:23	7440-39-3		
Boron	269	ug/L	150	1	10/18/22 14:26	10/19/22 15:23	7440-42-8		
Sodium	63300	ug/L	1000	1	10/18/22 14:26	10/19/22 15:23	7440-23-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	881	mg/L	10.0	1		10/14/22 16:08			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	50.2	mg/L	1.2	1		10/26/22 04:54	16887-00-6		
Fluoride	0.77	mg/L	0.050	1		10/26/22 04:54	16984-48-8		
Sulfate	245	mg/L	6.0	5		10/26/22 16:40	14808-79-8		

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: WPWT
Pace Project No.: 10629359

Sample: OUTFALL 050D #767704		Lab ID: 10629359004		Collected: 10/10/22 09:05		Received: 10/12/22 08:50		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Barium	72.3	ug/L	10.0	1	10/18/22 14:26	10/19/22 15:25	7440-39-3		
Boron	177	ug/L	150	1	10/18/22 14:26	10/19/22 15:25	7440-42-8		
Sodium	38000	ug/L	1000	1	10/18/22 14:26	10/19/22 15:25	7440-23-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	1260	mg/L	10.0	1		10/14/22 16:08			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	15.0	mg/L	1.2	1		10/26/22 05:07	16887-00-6		
Fluoride	0.72	mg/L	0.050	1		10/26/22 05:07	16984-48-8		
Sulfate	606	mg/L	12.0	10		10/26/22 16:57	14808-79-8		

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: WPWT
Pace Project No.: 10629359

Sample: OUTFALL 050E #767705		Lab ID: 10629359005		Collected: 10/10/22 08:00		Received: 10/12/22 08:50		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Minneapolis							
Barium	121	ug/L	10.0	1	10/18/22 14:26	10/19/22 15:27	7440-39-3		
Boron	169	ug/L	150	1	10/18/22 14:26	10/19/22 15:27	7440-42-8		
Sodium	42300	ug/L	1000	1	10/18/22 14:26	10/19/22 15:27	7440-23-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	858	mg/L	10.0	1		10/14/22 16:08			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	24.9	mg/L	1.2	1		10/26/22 05:20	16887-00-6		
Fluoride	0.74	mg/L	0.050	1		10/26/22 05:20	16984-48-8		
Sulfate	363	mg/L	6.0	5		10/26/22 17:15	14808-79-8		

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: WPWT
Pace Project No.: 10629359

QC Batch: 847180 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10629359001, 10629359002, 10629359003, 10629359004, 10629359005

METHOD BLANK: 4482725 Matrix: Water
Associated Lab Samples: 10629359001, 10629359002, 10629359003, 10629359004, 10629359005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	10/19/22 15:05	
Boron	ug/L	ND	150	10/19/22 15:05	
Sodium	ug/L	ND	1000	10/19/22 15:05	

LABORATORY CONTROL SAMPLE: 4482726

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	941	94	80-120	
Boron	ug/L	1000	946	95	80-120	
Sodium	ug/L	20000	18500	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4482727 4482728

Parameter	Units	10629359001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Barium	ug/L	641	1000	1000	1550	1560	91	91	75-125	0	
Boron	ug/L	198	1000	1000	1200	1190	100	99	75-125	1	
Sodium	ug/L	44100	20000	20000	62600	62200	92	90	75-125	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: WPWT
Pace Project No.: 10629359

QC Batch:	846710	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV UST-WATER
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10629359002

METHOD BLANK: 4479955 Matrix: Water

Associated Lab Samples: 10629359002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	10/14/22 12:57	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	10/14/22 12:57	
Benzene	ug/L	ND	1.0	10/14/22 12:57	
Ethylbenzene	ug/L	ND	1.0	10/14/22 12:57	
Naphthalene	ug/L	ND	1.0	10/14/22 12:57	
Toluene	ug/L	ND	1.0	10/14/22 12:57	
Xylene (Total)	ug/L	ND	3.0	10/14/22 12:57	
1,2-Dichlorobenzene-d4 (S)	%	100	75-125	10/14/22 12:57	
4-Bromofluorobenzene (S)	%	97	75-125	10/14/22 12:57	
Toluene-d8 (S)	%	101	75-125	10/14/22 12:57	

LABORATORY CONTROL SAMPLE: 4479956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.4	107	75-125	
1,3,5-Trimethylbenzene	ug/L	20	20.7	103	75-125	
Benzene	ug/L	20	20.5	102	73-125	
Ethylbenzene	ug/L	20	20.8	104	75-125	
Naphthalene	ug/L	20	21.4	107	66-127	
Toluene	ug/L	20	20.3	102	74-125	
Xylene (Total)	ug/L	60	62.1	104	72-125	
1,2-Dichlorobenzene-d4 (S)	%			98	75-125	
4-Bromofluorobenzene (S)	%			101	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4481418 4481419

Parameter	Units	10629399004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trimethylbenzene	ug/L	172	1000	1000	1140	1200	97	103	62-138	5	
1,3,5-Trimethylbenzene	ug/L	60.8	1000	1000	1040	1100	98	104	64-135	6	
Benzene	ug/L	3720	1000	1000	4350	4530	63	81	65-140	4	M1
Ethylbenzene	ug/L	248	1000	1000	1180	1240	93	99	66-126	5	
Naphthalene	ug/L	61.0	1000	1000	1030	1130	97	107	56-141	9	
Toluene	ug/L	53.4	1000	1000	989	1040	94	99	69-131	5	
Xylene (Total)	ug/L	640	3000	3000	3440	3590	93	98	68-136	4	
1,2-Dichlorobenzene-d4 (S)	%						97	98	75-125		D4

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: WPWT
Pace Project No.: 10629359

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4481418 4481419											
Parameter	Units	10629399004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
4-Bromofluorobenzene (S)	%.						102	100	75-125		
Toluene-d8 (S)	%.						101	101	75-125		

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: WPWT
Pace Project No.: 10629359

QC Batch: 847006 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10629359001, 10629359002, 10629359003, 10629359004, 10629359005

METHOD BLANK: 4481677 Matrix: Water
Associated Lab Samples: 10629359001, 10629359002, 10629359003, 10629359004, 10629359005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10/14/22 16:07	

LABORATORY CONTROL SAMPLE: 4481678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 4481679

Parameter	Units	10629359002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	864	824	5	

SAMPLE DUPLICATE: 4481680

Parameter	Units	10629359003 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	881	891	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: WPWT
Pace Project No.: 10629359

QC Batch: 849291 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10629359001, 10629359002, 10629359003, 10629359004, 10629359005

METHOD BLANK: 4492026 Matrix: Water
Associated Lab Samples: 10629359001, 10629359002, 10629359003, 10629359004, 10629359005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.2	10/26/22 07:43	
Fluoride	mg/L	ND	0.050	10/26/22 07:43	
Sulfate	mg/L	ND	1.2	10/26/22 07:43	

LABORATORY CONTROL SAMPLE: 4492027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	1	1.0	100	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4492028 4492029

Parameter	Units	10629267002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	0.74J	50	50	46.1	46.2	91	91	80-120	0	
Fluoride	mg/L	0.098	1	1	0.88	0.92	78	82	80-120	5	M1
Sulfate	mg/L	22.5	50	50	65.7	65.9	86	87	80-120	0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4492030 4492031

Parameter	Units	10629600004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	236	250	250	465	460	92	90	80-120	1	
Fluoride	mg/L	0.094	1	1	0.92	0.94	82	84	80-120	2	
Sulfate	mg/L	34.6	50	50	76.9	76.1	85	83	80-120	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: WPWT
Pace Project No.: 10629359

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.

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

D4 Sample was diluted due to the presence of high levels of target analytes.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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: WPWT
Pace Project No.: 10629359

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10629359001	OUTFALL 050A #767702	EPA 3010A	847180	EPA 6010D	847822
10629359002	OUTFALL 050B #767706	EPA 3010A	847180	EPA 6010D	847822
10629359003	OUTFALL 050C #767703	EPA 3010A	847180	EPA 6010D	847822
10629359004	OUTFALL 050D #767704	EPA 3010A	847180	EPA 6010D	847822
10629359005	OUTFALL 050E #767705	EPA 3010A	847180	EPA 6010D	847822
10629359002	OUTFALL 050B #767706	EPA 8260D	846710		
10629359001	OUTFALL 050A #767702	SM 2540C	847006		
10629359002	OUTFALL 050B #767706	SM 2540C	847006		
10629359003	OUTFALL 050C #767703	SM 2540C	847006		
10629359004	OUTFALL 050D #767704	SM 2540C	847006		
10629359005	OUTFALL 050E #767705	SM 2540C	847006		
10629359001	OUTFALL 050A #767702	EPA 300.0	849291		
10629359002	OUTFALL 050B #767706	EPA 300.0	849291		
10629359003	OUTFALL 050C #767703	EPA 300.0	849291		
10629359004	OUTFALL 050D #767704	EPA 300.0	849291		
10629359005	OUTFALL 050E #767705	EPA 300.0	849291		

REPORT OF LABORATORY ANALYSIS

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

WO#: 10629359



10629359

15706 GR RD TO WELINGTON CO.		DALLAS, TX. 75248	
Report To:	Ray Evans	Email To:	AP@WELINGTONCO.COM
Copy To:		Site Collection Info/Address:	15706 GR RD TO WELINGTON CO / WELINGTON
Customer Project Name/Number:	WPW1	State:	Country/City: Time Zone Collected: [] PT [] MT [] CT [] ET
Phone: 970-402-0418	Site/Facility ID #:	Compliance Monitoring?	[X] Yes [] No
Email: rayevans47@gmail.com	Purchase Order #:	DW PWS ID #:	
Collected By (print):	Quote #:	DW Location Code:	
Collected By (signature):	Turnaround Date Required: 11/10/2022	Immediately Packed on Ice:	[X] Yes [] No
Sample Disposal:	Rush:	Field Filtered (if applicable):	[] Yes [X] No
[X] Dispose as appropriate [] Return	[] Same Day [] Next Day	Analysis:	
[] Archive:	[] 2 Day [] 3 Day [] 4 Day [] 5 Day		
[] Hold:	(Expedite Charges Apply)		
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)			
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date Time
DUTRAL DSDA # 767702	GW	Grab	10/10/22 1120
DUTRAL DSDA # 767706	GW	Grab	10/10/22 1220
DUTRAL DSDA # 767703	GW	Grab	10/10/22 1310
DUTRAL DSDA # 767704	GW	Grab	10/10/22 1405
DUTRAL DSDA # 767705	GW	Grab	10/10/22 1500
Customer Remarks / Special Conditions / Possible Hazards:			
Type of Ice Used: Wet Blue Dry None			
Packing Material Used:			
Radchem sample(s) screened (<500 cpm): Y N NA			
Date/Time: 10/10/2022 1240			
Received by/Company: (Signature) WOC			
Date/Time: 10/11/2022 1400			
Received by/Company: (Signature) WOC			
Date/Time: 10/12/22 8:50			
Received by/Company: (Signature) Nancy / POC			

Courier: ☒ FedEx ☐ UPS ☐ USPS ☐ Client
☐ Pace ☐ SpeedDee ☐ Commercial

Tracking Number: **540518237680**

Custody Seal on Cooler/Box Present? ☒ Yes ☐ No **Seals Intact?** ☒ Yes ☐ No

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

Thermometer: ☐ T1 (0461) ☐ T2 (1336) ☐ T3 (0459) ☐ T4 (0254) ☐ T5 (0178)
☒ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ 01339252/1710

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Temp Blank? ☒ Yes ☐ No

Type of Ice: ☒ Wet ☐ Blue ☐ Dry ☐ None
☐ Melted

USDA Regulated Soil: ☒ N/A (water sample) other: _____)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ No

Date/Initials of Person Examining Contents: 10/12/22 AN

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

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

CLIENT NOTIFICATION/RESOLUTION

Person Contacted:

Comments/Resolution:

Project Manager Review: Lyle Cable

Field Data Required?	Yes	No
----------------------	-----	----

Date/Time: _____

Date: 10/12/22

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).

Labeled By: NV Line: 2

Pace Analytical - Minnesota

Sample Delivery Group: L1547197
Samples Received: 10/14/2022
Project Number: 10629359
Description: WPWT
Site: 002
Report To: Lyle Cable
1700 Elm Street Suite 200
Minneapolis, MN 55414

Entire Report Reviewed By:



Donna Eidson
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

Page 18 of 27

TABLE OF CONTENTS

Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	
Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
OUTFALL 050B #767706 L1547197-01	5	
Qc: Quality Control Summary	6	⁴ Cn
Radiochemistry by Method 904/9320	6	⁵ Sr
Radiochemistry by Method SM7500Ra B M	7	
Gl: Glossary of Terms	8	⁶ Qc
Al: Accreditations & Locations	9	⁷ Gl
Sc: Sample Chain of Custody	10	⁸ Al
		⁹ Sc

SAMPLE SUMMARY

OUTFALL 050B #767706 L1547197-01 Non-Potable Water

Collected by

Collected date/time

Received date/time

10/10/22 12:20

10/14/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1954314	1	11/04/22 15:07	11/30/22 15:39	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1950394	1	11/07/22 11:13	11/30/22 15:39	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1950394	1	11/07/22 11:13	11/09/22 12:49	RRE	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

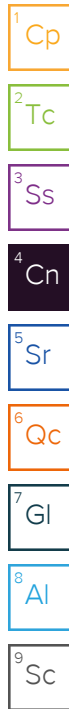
⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Donna Eidson
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.90		0.713	1.22	11/30/2022 15:39	WG1954314
(T) Barium	73.9			30.0-143	11/30/2022 15:39	WG1954314
(T) Yttrium	118			30.0-136	11/30/2022 15:39	WG1954314

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.91		0.808	1.24	11/30/2022 15:39	WG1950394

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.01		0.381	0.248	11/09/2022 12:49	WG1950394
(T) Barium-133	89.9			30.0-143	11/09/2022 12:49	WG1950394

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3867250-1 11/30/22 15:39

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.170	⌵	0.194	0.356
(T) Barium	69.6		69.6	
(T) Yttrium	105		105	

L1546605-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1546605-04 11/30/22 15:39 • (DUP) R3867250-5 11/30/22 15:39

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.378	0.282	0.514	-0.311	0.418	0.514	1	200	1.37	⌵	20	3
(T) Barium	65.7			68.7	68.7							
(T) Yttrium	122			116	116							

Laboratory Control Sample (LCS)

(LCS) R3867250-2 11/30/22 15:39

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.66	113	80.0-120	
(T) Barium			59.7		
(T) Yttrium			106		

L1546605-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1546605-12 11/30/22 15:39 • (MS) R3867250-3 11/30/22 15:39 • (MSD) R3867250-4 11/30/22 15:39

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	-0.0443	11.3	9.61	113	96.1	1	70.0-130			16.5		20
(T) Barium		77.3			62.3	72.2							
(T) Yttrium		126			113	108							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3866127-1 11/09/22 12:17

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.0276	⌵	0.0441	0.0685
(T) Barium-133	84.7		84.7	

L1549591-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1549591-01 11/09/22 12:00 • (DUP) R3866127-5 11/09/22 12:49

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	-0.0929	0.159	0.373	0.554	0.304	0.373	1	200	1.89		20	3
(T) Barium-133	83.9			89.9	89.9							

Laboratory Control Sample (LCS)

(LCS) R3866127-2 11/09/22 12:49

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.02	4.46	88.9	80.0-120	
(T) Barium-133			92.5		

L1549591-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1549591-04 11/09/22 12:00 • (MS) R3866127-3 11/09/22 12:49 • (MSD) R3866127-4 11/09/22 12:49

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.304	16.9	16.9	82.7	83.1	1	75.0-125			0.415		20
(T) Barium-133		82.3			99.3	104							

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

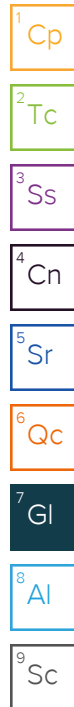
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey--NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1 6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1 4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



E119



Cert. Needed: ☐ Yes

☐ No

Pace Analytical®
www.pacelabs.com

Workorder Name: WPWT

[illegible]

This chain of custody is considered complete as is since this information is available in the owner laboratory.

COC Seal Present/Intact: ☒ Y ☐ N If Applicable
 COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headspace: ☒ Y ☐ N
 Bottles arrive intact: ☒ Y ☐ N Pres. Correct/Check: ☒ Y ☐ N
 Correct bottles used: ☒ Y ☐ N
 Sufficient volume sent: ☒ Y ☐ N
 RAD Screen <0.5 mR/hr: ☒ Y ☐ N