

October 18, 2022

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

RE: Project: Outfalls 050A-050E Monitoring
Pace Project No.: 10624881

Dear Randy Evans:

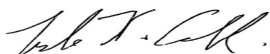
Enclosed are the analytical results for sample(s) received by the laboratory on September 09, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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

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CERTIFICATIONS

Project: Outfalls 050A-050E Monitoring
Pace Project No.: 10624881

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
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 ().

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SAMPLE ANALYTE COUNT

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10624881001	Outfall 050A #767702	EPA 6010D	DM	3	PASI-M
		SM 2540C	RM3	1	PASI-M
		EPA 300.0	AR3	3	PASI-M
10624881002	Outfall 050B #767706	EPA 6010D	DM	3	PASI-M
		SM 2540C	RM3	1	PASI-M
		EPA 300.0	AR3	3	PASI-M
10624881003	Outfall 050C #767703	EPA 6010D	DM	3	PASI-M
		SM 2540C	RM3	1	PASI-M
		EPA 300.0	AR3	3	PASI-M
10624881004	Outfall 050D #767704	EPA 6010D	DM	3	PASI-M
		SM 2540C	RM3	1	PASI-M
		EPA 300.0	AR3	3	PASI-M
10624881005	Outfall 050E #767705	EPA 6010D	DM	3	PASI-M
		SM 2540C	RM3	1	PASI-M
		EPA 300.0	AR3	3	PASI-M
10624881006	Outfall 050B #767706	EPA 8260D	NMB	10	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

Sample: Outfall 050A #767702		Lab ID: 10624881001		Collected: 09/08/22 08:20		Received: 09/09/22 13:52		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	415	ug/L	10.0	1	09/13/22 05:46	09/16/22 11:27	7440-39-3		
Boron	222	ug/L	150	1	09/13/22 05:46	09/16/22 11:27	7440-42-8		
Sodium	49900	ug/L	1000	1	09/13/22 05:46	09/16/22 11:27	7440-23-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	1510	mg/L	10.0	1		09/13/22 14:43			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	17.4	mg/L	1.2	1		09/17/22 05:16	16887-00-6		
Fluoride	0.72	mg/L	0.050	1		09/17/22 05:16	16984-48-8		
Sulfate	637	mg/L	12.0	10		09/17/22 22:41	14808-79-8		

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ANALYTICAL RESULTS

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

Sample: Outfall 050B #767706		Lab ID: 10624881002		Collected: 09/08/22 11:30		Received: 09/09/22 13:52		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	309	ug/L	10.0	1	09/13/22 05:46	09/16/22 11:29	7440-39-3		
Boron	848	ug/L	150	1	09/13/22 05:46	09/16/22 11:29	7440-42-8		
Sodium	213000	ug/L	2000	2	09/13/22 05:46	09/16/22 11:54	7440-23-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	1100	mg/L	28.6	1		09/13/22 14:43			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	119	mg/L	2.4	2		09/17/22 23:00	16887-00-6		
Fluoride	1.3	mg/L	0.050	1		09/17/22 05:31	16984-48-8		
Sulfate	129	mg/L	2.4	2		09/17/22 23:00	14808-79-8		

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ANALYTICAL RESULTS

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

Sample: Outfall 050C #767703		Lab ID: 10624881003		Collected: 09/08/22 10:35		Received: 09/09/22 13:52		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	348	ug/L	10.0	1	09/13/22 05:46	09/16/22 11:30	7440-39-3		
Boron	268	ug/L	150	1	09/13/22 05:46	09/16/22 11:30	7440-42-8		
Sodium	60600	ug/L	1000	1	09/13/22 05:46	09/16/22 11:30	7440-23-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	1160	mg/L	10.0	1		09/13/22 14:44			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	87.8	mg/L	1.2	1		09/17/22 05:45	16887-00-6		
Fluoride	0.79	mg/L	0.050	1		09/17/22 05:45	16984-48-8		
Sulfate	305	mg/L	6.0	5		09/17/22 23:18	14808-79-8		

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ANALYTICAL RESULTS

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

Sample: Outfall 050D #767704		Lab ID: 10624881004		Collected: 09/08/22 09:25		Received: 09/09/22 13:52		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	44.9	ug/L	10.0	1	09/13/22 05:46	09/16/22 11:32	7440-39-3		
Boron	181	ug/L	150	1	09/13/22 05:46	09/16/22 11:32	7440-42-8		
Sodium	36700	ug/L	1000	1	09/13/22 05:46	09/16/22 11:32	7440-23-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	1300	mg/L	10.0	1		09/13/22 14:44			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	13.6	mg/L	1.2	1		09/17/22 05:59	16887-00-6		
Fluoride	0.76	mg/L	0.050	1		09/17/22 05:59	16984-48-8		
Sulfate	540	mg/L	12.0	10		09/17/22 23:35	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

Sample: Outfall 050E #767705		Lab ID: 10624881005		Collected: 09/08/22 07:10		Received: 09/09/22 13:52		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	66.5	ug/L	10.0	1	09/13/22 05:46	09/16/22 11:34	7440-39-3		
Boron	161	ug/L	150	1	09/13/22 05:46	09/16/22 11:34	7440-42-8		
Sodium	40500	ug/L	1000	1	09/13/22 05:46	09/16/22 11:34	7440-23-5		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Minneapolis							
Total Dissolved Solids	922	mg/L	10.0	1		09/13/22 14:44			
300.0 IC Anions		Analytical Method: EPA 300.0 Pace Analytical Services - Minneapolis							
Chloride	27.7	mg/L	1.2	1		09/17/22 06:13	16887-00-6		
Fluoride	0.83	mg/L	0.050	1		09/17/22 06:13	16984-48-8		
Sulfate	338	mg/L	6.0	5		09/18/22 00:21	14808-79-8		

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ANALYTICAL RESULTS

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

Sample: Outfall 050B #767706		Lab ID: 10624881006		Collected: 09/08/22 11:30		Received: 09/09/22 13:52		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260D MSV UST		Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis							
Benzene	ND	ug/L	1.0	1		09/13/22 00:09	71-43-2		
Ethylbenzene	ND	ug/L	1.0	1		09/13/22 00:09	100-41-4		
Naphthalene	ND	ug/L	1.0	1		09/13/22 00:09	91-20-3		
Toluene	ND	ug/L	1.0	1		09/13/22 00:09	108-88-3		
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		09/13/22 00:09	95-63-6		
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		09/13/22 00:09	108-67-8		
Xylene (Total)	ND	ug/L	3.0	1		09/13/22 00:09	1330-20-7		
Surrogates									
1,2-Dichlorobenzene-d4 (S)	95	%.	75-125	1		09/13/22 00:09	2199-69-1		
4-Bromofluorobenzene (S)	95	%.	75-125	1		09/13/22 00:09	460-00-4		
Toluene-d8 (S)	107	%.	75-125	1		09/13/22 00:09	2037-26-5		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

QC Batch:	840012	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D Water
		Laboratory:	Pace Analytical Services - Minneapolis
Associated Lab Samples: 10624881001, 10624881002, 10624881003, 10624881004, 10624881005			

METHOD BLANK: 4446077

Matrix: Water

Associated Lab Samples: 10624881001, 10624881002, 10624881003, 10624881004, 10624881005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Barium	ug/L	ND	10.0	09/16/22 11:10	
Boron	ug/L	ND	150	09/16/22 11:10	
Sodium	ug/L	ND	1000	09/16/22 11:10	

LABORATORY CONTROL SAMPLE: 4446078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	ug/L	1000	993	99	80-120	
Boron	ug/L	1000	1020	102	80-120	
Sodium	ug/L	20000	19600	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4446079

4446080

Parameter	Units	10624637003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Barium	ug/L	70.6	1000	1000	1060	1050	99	98	75-125	0	
Boron	ug/L	ND	1000	1000	1200	1190	106	105	75-125	1	
Sodium	ug/L	64800	20000	20000	84300	83100	98	92	75-125	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Outfalls 050A-050E Monitoring
Pace Project No.: 10624881

QC Batch:	839976	Analysis Method:	EPA 8260D
QC Batch Method:	EPA 8260D	Analysis Description:	8260D MSV UST-WATER
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10624881006

METHOD BLANK: 4445779 Matrix: Water

Associated Lab Samples: 10624881006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	09/12/22 20:47	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	09/12/22 20:47	
Benzene	ug/L	ND	1.0	09/12/22 20:47	
Ethylbenzene	ug/L	ND	1.0	09/12/22 20:47	
Naphthalene	ug/L	ND	1.0	09/12/22 20:47	
Toluene	ug/L	ND	1.0	09/12/22 20:47	
Xylene (Total)	ug/L	ND	3.0	09/12/22 20:47	
1,2-Dichlorobenzene-d4 (S)	%	99	75-125	09/12/22 20:47	
4-Bromofluorobenzene (S)	%	95	75-125	09/12/22 20:47	
Toluene-d8 (S)	%	103	75-125	09/12/22 20:47	

LABORATORY CONTROL SAMPLE: 4445780

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	18.2	91	75-125	
1,3,5-Trimethylbenzene	ug/L	20	17.6	88	75-125	
Benzene	ug/L	20	19.1	95	73-125	
Ethylbenzene	ug/L	20	18.8	94	75-125	
Naphthalene	ug/L	20	19.8	99	66-127	
Toluene	ug/L	20	19.3	97	74-125	
Xylene (Total)	ug/L	60	56.0	93	72-125	
1,2-Dichlorobenzene-d4 (S)	%			98	75-125	
4-Bromofluorobenzene (S)	%			92	75-125	
Toluene-d8 (S)	%			101	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4445805 4445806

Parameter	10624690015		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
1,2,4-Trimethylbenzene	ug/L	<0.13	20	20	24.3	27.2	122	136	62-138	11	
1,3,5-Trimethylbenzene	ug/L	<0.11	20	20	18.1	19.1	91	96	64-135	5	
Benzene	ug/L	<0.0001	20	20	26.9	29.0	135	145	65-140	7	M1
		0 mg/L									
Ethylbenzene	ug/L	<0.11	20	20	25.8	29.3	129	146	66-126	13	M1
Naphthalene	ug/L	0.31J	20	20	27.2	31.2	134	154	56-141	14	M1
Toluene	ug/L	<0.10	20	20	26.4	29.5	132	147	69-131	11	M1
Xylene (Total)	ug/L	<0.20	60	60	77.2	86.1	129	144	68-136	11	MS

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QUALITY CONTROL DATA

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4445805 4445806											
Parameter	Units	10624690015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichlorobenzene-d4 (S)	%.						97	99	75-125		P2
4-Bromofluorobenzene (S)	%.						95	89	75-125		
Toluene-d8 (S)	%.						93	95	75-125		

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QUALITY CONTROL DATA

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

QC Batch:	840216	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Minneapolis

Associated Lab Samples: 10624881001, 10624881002, 10624881003, 10624881004, 10624881005

METHOD BLANK: 4446779

Matrix: Water

Associated Lab Samples: 10624881001, 10624881002, 10624881003, 10624881004, 10624881005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	09/13/22 14:43	

LABORATORY CONTROL SAMPLE: 4446780

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

SAMPLE DUPLICATE: 4446781

Parameter	Units	10624879001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	111	115	4	

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QUALITY CONTROL DATA

Project: Outfalls 050A-050E Monitoring
Pace Project No.: 10624881

QC Batch:	840870	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: 10624881001, 10624881002, 10624881003, 10624881004, 10624881005

METHOD BLANK: 4450103 Matrix: Water
Associated Lab Samples: 10624881001, 10624881002, 10624881003, 10624881004, 10624881005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.2	09/17/22 03:19	
Fluoride	mg/L	ND	0.050	09/17/22 03:19	
Sulfate	mg/L	ND	1.2	09/17/22 03:19	

LABORATORY CONTROL SAMPLE: 4450104

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.6	95	90-110	
Fluoride	mg/L	1	0.91	91	90-110	
Sulfate	mg/L	50	46.5	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4450105 4450106

Parameter	Units	10624879001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	47.1	50	50	87.0	86.1	80	78	80-120	1	M1
Fluoride	mg/L	0.084	1	1	0.97	0.99	89	91	80-120	2	
Sulfate	mg/L	ND	50	50	47.3	46.9	94	94	80-120	1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4450107 4450108

Parameter	Units	10625488003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chloride	mg/L	ND	50	50	46.4	46.2	93	92	80-120	0	
Fluoride	mg/L	ND	1	1	0.88	0.88	88	88	80-120	0	
Sulfate	mg/L	ND	50	50	46.8	46.5	94	93	80-120	1	

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QUALIFIERS

Project: Outfalls 050A-050E Monitoring
Pace Project No.: 10624881

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.

WORKORDER QUALIFIERS

WO: 10624881

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Outfalls 050A-050E Monitoring

Pace Project No.: 10624881

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10624881001	Outfall 050A #767702	EPA 3010A	840012	EPA 6010D	840175
10624881002	Outfall 050B #767706	EPA 3010A	840012	EPA 6010D	840175
10624881003	Outfall 050C #767703	EPA 3010A	840012	EPA 6010D	840175
10624881004	Outfall 050D #767704	EPA 3010A	840012	EPA 6010D	840175
10624881005	Outfall 050E #767705	EPA 3010A	840012	EPA 6010D	840175
10624881006	Outfall 050B #767706	EPA 8260D	839976		
10624881001	Outfall 050A #767702	SM 2540C	840216		
10624881002	Outfall 050B #767706	SM 2540C	840216		
10624881003	Outfall 050C #767703	SM 2540C	840216		
10624881004	Outfall 050D #767704	SM 2540C	840216		
10624881005	Outfall 050E #767705	SM 2540C	840216		
10624881001	Outfall 050A #767702	EPA 300.0	840870		
10624881002	Outfall 050B #767706	EPA 300.0	840870		
10624881003	Outfall 050C #767703	EPA 300.0	840870		
10624881004	Outfall 050D #767704	EPA 300.0	840870		
10624881005	Outfall 050E #767705	EPA 300.0	840870		

REPORT OF LABORATORY ANALYSIS

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[illegible]

Effective Date: 8/26/2022

Sample Condition Upon Receipt	Client Name: <u>Wellington Operating Co.</u>	Project #: WO# : 10624881	PM: LKC Due Date: 09/23/22 CLIENT: Wellington
Courier: <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Client <input type="checkbox"/> Pace <input type="checkbox"/> Speedee <input type="checkbox"/> Commercial			
Tracking Number: <u>S40518227726</u>		<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142	

Custody Seal on Cooler/Box Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Packing Material: <input checked="" type="checkbox"/> Bubble Wrap <input checked="" type="checkbox"/> Bubble Bags <input type="checkbox"/> None <input type="checkbox"/> Other		Temp Blank? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Thermometer: <input checked="" type="checkbox"/> T1 (0461) <input type="checkbox"/> T2 (1336) <input type="checkbox"/> T3 (0459) <input type="checkbox"/> T4 (0254) <input type="checkbox"/> T5 (0178) <input type="checkbox"/> T6 (0235) <input type="checkbox"/> T7 (0042) <input type="checkbox"/> T8 (0775) <input type="checkbox"/> 01339252/1710		Type of Ice: <input type="checkbox"/> Wet <input type="checkbox"/> Blue <input type="checkbox"/> Dry <input type="checkbox"/> None <input checked="" type="checkbox"/> Melted	
Did Samples Originate in West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Were All Container Temps Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Temp should be above freezing to 6 °C Cooler temp Read w/Temp Blank: <u>6.4</u> °C		Average Corrected Temp (no temp blank only): _____ °C	
Correction Factor: <u>T0.2</u> Cooler Temp Corrected w/temp blank: <u>6.6</u> °C		<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container	

USDA Regulated Soil: ☒ N/A, water sample other: _____) **Date/Initials of Person Examining Contents:** KB 9/9/22

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

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.

Location (Check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia		COMMENTS	
Chain of Custody Present and Filled Out?		1.	
Chain of Custody Relinquished?		2.	
Sampler Name and/or Signature on COC?		3.	
Samples Arrived within Hold Time?		4. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No	
Short Hold Time Analysis (<72 hr)?		5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E.coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrom <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other	
Rush Turn Around Time Requested?		6.	
Sufficient Sample Volume?		7.	
Correct Containers Used?		8.	
-Pace Containers Used?		9.	
Containers Intact?		10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Field Filtered Volume Received for Dissolved Tests?		11. If no, write ID/Date/Time of container below:	
Is sufficient information available to reconcile the samples to the COC?		<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142	
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other			
All containers needing acid/base preservation have been checked?		12. Sample # <u>001-006</u>	
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)		<input type="checkbox"/> NaOH <input checked="" type="checkbox"/> HNO ₃ <u>1/1</u> <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)		Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 pH Paper Lot # Residual Chlorine <u>20942</u> 0-6 Roll 0-6 Strip 0-14 Strip	
Headspace in Methyl Mercury Container?		13.	
Extra labels present on soil VOA or WIDRO containers?		14.	
Headspace in VOA Vials (greater than 6mm)?		<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142	
3 Trip Blanks Present?		15.	
Trip Blank Custody Seals Present?		Pace Trip Blank Lot # (if purchased): <u>383745(2)</u>	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: Randy Evans Date/Time: 9/12/22 1107

Comments/Resolution: Emailed Randy regarding temperature upon receipt. TP flag applied. lkc 9/12/22

Project Manager Review: Lyle Cable Date: 9/12/22

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: KB Line: 2

Internal Transfer Chain of Custody



☐ Samples Pre-Logged into eCOC.



Workorder: 10624881

Workorder Name: Outfalls 050A-050E Monitoring

Cert. Needed: ☐ Yes

☐ No

Owner Received Date: 9/9/2022

Results Requested By: 9/23/2022

[illegible]

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

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

5466 8886 2640

Sample Receipt Checklist

COC Seal Present/Intact: ☒ Y ☐ N If Applicable

COC Signed/Accurate: ☒ Y ☐ N VOA Zero Headpace: ☐ 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

NSA7 2.3 to = 2.3

Pace Analytical - Minnesota

Sample Delivery Group: L1535102
Samples Received: 09/13/2022
Project Number: 10624881
Description: Outfalls 050A-050E Monitoring
Site: 006
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

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		⁹ Sc

SAMPLE SUMMARY

OUTFALL 050B #767706 L1535102-01 Non-Potable Water

Collected by

Collected date/time

Received date/time

09/08/22 11:30

09/13/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG1936933	1	10/06/22 10:13	10/12/22 10:34	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG1930450	1	09/26/22 11:25	10/12/22 10:34	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG1930450	1	09/26/22 11:25	09/27/22 13:54	RGT	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

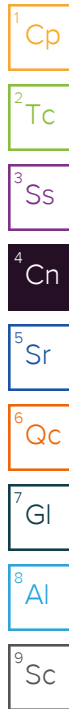
⁹Sc

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	2.16		0.277	0.439	10/12/2022 10:34	WG1936933
(T) Barium	91.4			30.0-143	10/12/2022 10:34	WG1936933
(T) Yttrium	101			30.0-136	10/12/2022 10:34	WG1936933

¹Cp

²Tc

³Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.33		0.486	0.491	10/12/2022 10:34	WG1930450

⁴Cn

⁵Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.17		0.399	0.221	09/27/2022 13:54	WG1930450
(T) Barium-133	110			30.0-143	09/27/2022 13:54	WG1930450

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R3848044-1 10/12/22 10:34

	MB Result	MB Qualifier	MB Uncertainty	MB MDA
Analyte	pCi/l		+ / -	pCi/l
Radium-228	0.325		0.131	0.227
(T) Barium	106		106	
(T) Yttrium	103		103	

L1535129-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1535129-01 10/12/22 10:34 • (DUP) R3848044-5 10/12/22 10:34

	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
Analyte	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-228	1.77	0.215	0.325	2.52	0.318	0.325	1	35.2	1.96		20	3
(T) Barium	113			116	116							
(T) Yttrium	94.0			91.9	91.9							

Laboratory Control Sample (LCS)

(LCS) R3848044-2 10/12/22 10:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	pCi/l	pCi/l	%	%	
Radium-228	5.00	4.85	97.0	80.0-120	
(T) Barium			117		
(T) Yttrium			101		

L1534671-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1534671-21 10/12/22 10:34 • (MS) R3848044-3 10/12/22 10:34 • (MSD) R3848044-4 10/12/22 10:34

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
Analyte	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-228	10.0	0.664	10.0	8.97	93.4	83.0	1	70.0-130			10.9		20
(T) Barium		121			118	117							
(T) Yttrium		93.5			99.2	100							

1

Cp

2

Tc

3

Ss

4

Cn

5

Sr

6

Qc

7

Gl

8

Al

9

Sc

Method Blank (MB)

(MB) R3844527-1 09/27/22 13:50

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-226	0.00195	<u>U</u>	0.0256	0.0607
(T) Barium-133	86.0		86.0	

L1535096-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1535096-11 09/27/22 13:54 • (DUP) R3844527-5 09/27/22 13:50

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	0.404	0.262	0.275	0.425	0.253	0.275	1	4.99	0.0568		20	3
(T) Barium-133	109			103	103							

Laboratory Control Sample (LCS)

(LCS) R3844527-2 09/27/22 13:50

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.02	4.97	99.0	80.0-120	
(T) Barium-133			91.6		

L1535096-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1535096-01 09/27/22 13:50 • (MS) R3844527-3 09/27/22 13:50 • (MSD) R3844527-4 09/27/22 13:50

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	0.864	16.7	16.5	79.1	78.3	1	75.0-125			0.903		20
(T) Barium-133		108			101	105							

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

U	Below Detectable Limits: Indicates that the analyte was not detected.
---	---

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

ACCREDITATIONS & LOCATIONS

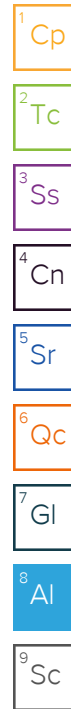
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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.



Internal Transfer Chain of Custody



☐ Samples Pre-Logged into eCOC.

Cert. Needed: ☐ Yes ☐ No

Owner Received Date: 9/9/2022

Results Requested By: 9/23/2022

Workorder: 10624881

Workorder Name: Outfalls 050A-050E Monitoring

Pace Analytical
www.pacelabs.com

[illegible]

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

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

Sample Receipt Checklist

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

NSA7 2.3 to =

5466 8886 2640

NSA7 $2.3 + 0 = 2.3$