

September 26, 2018

Rob King
Hampton Bays Water District
P.O. Box 1013
Hampton Bays, NY 11946

RE: Project: PFOS 9/12
Pace Project No.: 7064565

Dear Rob King:

Enclosed are the analytical results for sample(s) received by the laboratory on September 12, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Stu Murrell
stu.murrell@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Warren Booth, Hampton Bays Water District
John Collins, H2M Group
Stella Michaels, Hampton Bays Water District
Paul Ponturo, H2M Group



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PFOS 9/12

Pace Project No.: 7064565

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174

Alabama Certification #: 41320

Connecticut Certification #: PH-0216

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

Maryland Certification: #346

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

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

Virginia Environmental Certification #: 460165

Wyoming Certification: FL NELAC Reciprocity

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: PFOS 9/12

Pace Project No.: 7064565

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7064565001	S-15687	Drinking Water	09/12/18 08:10	09/12/18 17:10
7064565002	S-24848	Drinking Water	09/12/18 08:05	09/12/18 17:10
7064565003	S-31636	Drinking Water	09/12/18 07:45	09/12/18 17:10
7064565004	COMBINED EFF.	Drinking Water	09/12/18 07:55	09/12/18 17:10
7064565005	S-50970	Drinking Water	09/12/18 08:20	09/12/18 17:10
7064565006	S-74071	Drinking Water	09/12/18 08:30	09/12/18 17:10
7064565007	S-58350	Drinking Water	09/12/18 09:20	09/12/18 17:10
7064565008	S-58351	Drinking Water	09/12/18 09:10	09/12/18 17:10
7064565009	S-58352	Drinking Water	09/12/18 09:30	09/12/18 17:10
7064565010	S-108065	Drinking Water	09/12/18 08:45	09/12/18 17:10
7064565011	S-108066	Drinking Water	09/12/18 08:55	09/12/18 17:10
7064565012	S-127163	Drinking Water	09/12/18 00:00	09/12/18 17:10

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SAMPLE ANALYTE COUNT

Project: PFOS 9/12

Pace Project No.: 7064565

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7064565001	S-15687	EPA 537	NS1	8	PASI-O
7064565002	S-24848	EPA 537	NS1	8	PASI-O
7064565003	S-31636	EPA 537	NS1	8	PASI-O
7064565004	COMBINED EFF.	EPA 537	NS1	8	PASI-O
7064565005	S-50970	EPA 537	NS1	8	PASI-O
7064565006	S-74071	EPA 537	NS1	8	PASI-O
7064565007	S-58350	EPA 537	NS1	8	PASI-O
7064565008	S-58351	EPA 537	NS1	8	PASI-O
7064565009	S-58352	EPA 537	NS1	8	PASI-O
7064565010	S-108065	EPA 537	NS1	8	PASI-O
7064565011	S-108066	EPA 537	NS1	8	PASI-O
7064565012	S-127163	EPA 537	NS1	8	PASI-O

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-15687 **Lab ID: 7064565001** Collected: 09/12/18 08:10 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water		Analytical Method: EPA 537 Preparation Method: EPA 537							
Perfluorobutanesulfonic acid	<0.086	ug/L	0.086		1	09/21/18 08:19	09/25/18 14:06	375-73-5	
Perfluoroheptanoic acid	<0.0095	ug/L	0.0095		1	09/21/18 08:19	09/25/18 14:06	375-85-9	
Perfluorohexanesulfonic acid	<0.029	ug/L	0.029		1	09/21/18 08:19	09/25/18 14:06	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/21/18 08:19	09/25/18 14:06	375-95-1	
Perfluorooctanesulfonic acid	0.087	ug/L	0.038		1	09/21/18 08:19	09/25/18 14:06	1763-23-1	
Perfluorooctanoic acid	0.0062	ug/L	0.0019		1	09/21/18 08:19	09/25/18 14:06	335-67-1	
Surrogates									
13C2-PFDA (S)	109	%	70-130		1	09/21/18 08:19	09/25/18 14:06		
13C2-PFHxA (S)	93	%	70-130		1	09/21/18 08:19	09/25/18 14:06		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-24848 **Lab ID: 7064565002** Collected: 09/12/18 08:05 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water		Analytical Method: EPA 537 Preparation Method: EPA 537							
Perfluorobutanesulfonic acid	<0.084	ug/L	0.084		1	09/18/18 02:54	09/19/18 16:47	375-73-5	
Perfluoroheptanoic acid	<0.0093	ug/L	0.0093		1	09/18/18 02:54	09/19/18 16:47	375-85-9	
Perfluorohexanesulfonic acid	<0.028	ug/L	0.028		1	09/18/18 02:54	09/19/18 16:47	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/18/18 02:54	09/19/18 16:47	375-95-1	
Perfluorooctanesulfonic acid	0.047	ug/L	0.037		1	09/18/18 02:54	09/19/18 16:47	1763-23-1	
Perfluorooctanoic acid	0.0050	ug/L	0.0019		1	09/18/18 02:54	09/19/18 16:47	335-67-1	
Surrogates									
13C2-PFDA (S)	99	%	70-130		1	09/18/18 02:54	09/19/18 16:47		
13C2-PFHxA (S)	86	%	70-130		1	09/18/18 02:54	09/19/18 16:47		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-31636 **Lab ID: 7064565003** Collected: 09/12/18 07:45 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water		Analytical Method: EPA 537 Preparation Method: EPA 537							
Perfluorobutanesulfonic acid	<0.086	ug/L	0.086		1	09/18/18 02:54	09/19/18 17:04	375-73-5	
Perfluoroheptanoic acid	<0.0095	ug/L	0.0095		1	09/18/18 02:54	09/19/18 17:04	375-85-9	
Perfluorohexanesulfonic acid	<0.029	ug/L	0.029		1	09/18/18 02:54	09/19/18 17:04	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/18/18 02:54	09/19/18 17:04	375-95-1	
Perfluorooctanesulfonic acid	<0.038	ug/L	0.038		1	09/18/18 02:54	09/19/18 17:04	1763-23-1	
Perfluorooctanoic acid	0.0036	ug/L	0.0019		1	09/18/18 02:54	09/19/18 17:04	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	09/18/18 02:54	09/19/18 17:04		
13C2-PFHxA (S)	84	%	70-130		1	09/18/18 02:54	09/19/18 17:04		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: COMBINED EFF. **Lab ID: 7064565004** Collected: 09/12/18 07:55 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water		Analytical Method: EPA 537 Preparation Method: EPA 537							
Perfluorobutanesulfonic acid	<0.095	ug/L	0.095		1	09/18/18 02:54	09/19/18 17:21	375-73-5	
Perfluoroheptanoic acid	<0.011	ug/L	0.011		1	09/18/18 02:54	09/19/18 17:21	375-85-9	
Perfluorohexanesulfonic acid	<0.032	ug/L	0.032		1	09/18/18 02:54	09/19/18 17:21	355-46-4	
Perfluorononanoic acid	<0.021	ug/L	0.021		1	09/18/18 02:54	09/19/18 17:21	375-95-1	
Perfluorooctanesulfonic acid	<0.042	ug/L	0.042		1	09/18/18 02:54	09/19/18 17:21	1763-23-1	
Perfluorooctanoic acid	<0.0021	ug/L	0.0021		1	09/18/18 02:54	09/19/18 17:21	335-67-1	
Surrogates									
13C2-PFDA (S)	114	%	70-130		1	09/18/18 02:54	09/19/18 17:21		
13C2-PFHxA (S)	101	%	70-130		1	09/18/18 02:54	09/19/18 17:21		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-50970 **Lab ID: 7064565005** Collected: 09/12/18 08:20 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	<0.084	ug/L	0.084		1	09/18/18 02:54	09/19/18 17:38	375-73-5	
Perfluoroheptanoic acid	<0.0094	ug/L	0.0094		1	09/18/18 02:54	09/19/18 17:38	375-85-9	
Perfluorohexanesulfonic acid	<0.028	ug/L	0.028		1	09/18/18 02:54	09/19/18 17:38	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/18/18 02:54	09/19/18 17:38	375-95-1	
Perfluorooctanesulfonic acid	<0.038	ug/L	0.038		1	09/18/18 02:54	09/19/18 17:38	1763-23-1	
Perfluorooctanoic acid	<0.0019	ug/L	0.0019		1	09/18/18 02:54	09/19/18 17:38	335-67-1	
Surrogates									
13C2-PFDA (S)	94	%	70-130		1	09/18/18 02:54	09/19/18 17:38		
13C2-PFHxA (S)	81	%	70-130		1	09/18/18 02:54	09/19/18 17:38		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-74071 **Lab ID: 7064565006** Collected: 09/12/18 08:30 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	<0.084	ug/L	0.084		1	09/18/18 02:54	09/19/18 17:55	375-73-5	
Perfluoroheptanoic acid	<0.0093	ug/L	0.0093		1	09/18/18 02:54	09/19/18 17:55	375-85-9	
Perfluorohexanesulfonic acid	<0.028	ug/L	0.028		1	09/18/18 02:54	09/19/18 17:55	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/18/18 02:54	09/19/18 17:55	375-95-1	
Perfluorooctanesulfonic acid	<0.037	ug/L	0.037		1	09/18/18 02:54	09/19/18 17:55	1763-23-1	
Perfluorooctanoic acid	<0.0019	ug/L	0.0019		1	09/18/18 02:54	09/19/18 17:55	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	09/18/18 02:54	09/19/18 17:55		
13C2-PFHxA (S)	82	%	70-130		1	09/18/18 02:54	09/19/18 17:55		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-58350 **Lab ID: 7064565007** Collected: 09/12/18 09:20 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	<0.090	ug/L	0.090		1	09/18/18 02:54	09/19/18 18:30	375-73-5	
Perfluoroheptanoic acid	<0.010	ug/L	0.010		1	09/18/18 02:54	09/19/18 18:30	375-85-9	
Perfluorohexanesulfonic acid	<0.030	ug/L	0.030		1	09/18/18 02:54	09/19/18 18:30	355-46-4	
Perfluorononanoic acid	<0.020	ug/L	0.020		1	09/18/18 02:54	09/19/18 18:30	375-95-1	
Perfluorooctanesulfonic acid	<0.040	ug/L	0.040		1	09/18/18 02:54	09/19/18 18:30	1763-23-1	
Perfluorooctanoic acid	<0.0020	ug/L	0.0020		1	09/18/18 02:54	09/19/18 18:30	335-67-1	
Surrogates									
13C2-PFDA (S)	97	%	70-130		1	09/18/18 02:54	09/19/18 18:30		
13C2-PFHxA (S)	84	%	70-130		1	09/18/18 02:54	09/19/18 18:30		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-58351 **Lab ID: 7064565008** Collected: 09/12/18 09:10 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	<0.085	ug/L	0.085		1	09/18/18 02:54	09/19/18 18:47	375-73-5	
Perfluoroheptanoic acid	<0.0095	ug/L	0.0095		1	09/18/18 02:54	09/19/18 18:47	375-85-9	
Perfluorohexanesulfonic acid	<0.028	ug/L	0.028		1	09/18/18 02:54	09/19/18 18:47	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/18/18 02:54	09/19/18 18:47	375-95-1	
Perfluorooctanesulfonic acid	<0.038	ug/L	0.038		1	09/18/18 02:54	09/19/18 18:47	1763-23-1	
Perfluorooctanoic acid	<0.0019	ug/L	0.0019		1	09/18/18 02:54	09/19/18 18:47	335-67-1	
Surrogates									
13C2-PFDA (S)	95	%	70-130		1	09/18/18 02:54	09/19/18 18:47		
13C2-PFHxA (S)	83	%	70-130		1	09/18/18 02:54	09/19/18 18:47		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-58352 **Lab ID: 7064565009** Collected: 09/12/18 09:30 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water		Analytical Method: EPA 537 Preparation Method: EPA 537							
Perfluorobutanesulfonic acid	<0.084	ug/L	0.084		1	09/18/18 02:54	09/19/18 19:04	375-73-5	
Perfluoroheptanoic acid	<0.0093	ug/L	0.0093		1	09/18/18 02:54	09/19/18 19:04	375-85-9	
Perfluorohexanesulfonic acid	<0.028	ug/L	0.028		1	09/18/18 02:54	09/19/18 19:04	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/18/18 02:54	09/19/18 19:04	375-95-1	
Perfluorooctanesulfonic acid	<0.037	ug/L	0.037		1	09/18/18 02:54	09/19/18 19:04	1763-23-1	
Perfluorooctanoic acid	<0.0019	ug/L	0.0019		1	09/18/18 02:54	09/19/18 19:04	335-67-1	
Surrogates									
13C2-PFDA (S)	98	%	70-130		1	09/18/18 02:54	09/19/18 19:04		
13C2-PFHxA (S)	85	%	70-130		1	09/18/18 02:54	09/19/18 19:04		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-108065 **Lab ID: 7064565010** Collected: 09/12/18 08:45 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water		Analytical Method: EPA 537 Preparation Method: EPA 537							
Perfluorobutanesulfonic acid	<0.087	ug/L	0.087		1	09/18/18 02:54	09/19/18 19:21	375-73-5	
Perfluoroheptanoic acid	<0.0097	ug/L	0.0097		1	09/18/18 02:54	09/19/18 19:21	375-85-9	
Perfluorohexanesulfonic acid	<0.029	ug/L	0.029		1	09/18/18 02:54	09/19/18 19:21	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/18/18 02:54	09/19/18 19:21	375-95-1	
Perfluorooctanesulfonic acid	<0.039	ug/L	0.039		1	09/18/18 02:54	09/19/18 19:21	1763-23-1	
Perfluorooctanoic acid	<0.0019	ug/L	0.0019		1	09/18/18 02:54	09/19/18 19:21	335-67-1	
Surrogates									
13C2-PFDA (S)	94	%	70-130		1	09/18/18 02:54	09/19/18 19:21		
13C2-PFHxA (S)	79	%	70-130		1	09/18/18 02:54	09/19/18 19:21		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-108066 **Lab ID: 7064565011** Collected: 09/12/18 08:55 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	<0.084	ug/L	0.084		1	09/18/18 02:54	09/19/18 19:38	375-73-5	
Perfluoroheptanoic acid	<0.0093	ug/L	0.0093		1	09/18/18 02:54	09/19/18 19:38	375-85-9	
Perfluorohexanesulfonic acid	<0.028	ug/L	0.028		1	09/18/18 02:54	09/19/18 19:38	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/18/18 02:54	09/19/18 19:38	375-95-1	
Perfluorooctanesulfonic acid	<0.037	ug/L	0.037		1	09/18/18 02:54	09/19/18 19:38	1763-23-1	
Perfluorooctanoic acid	<0.0019	ug/L	0.0019		1	09/18/18 02:54	09/19/18 19:38	335-67-1	
Surrogates									
13C2-PFDA (S)	117	%	70-130		1	09/18/18 02:54	09/19/18 19:38		
13C2-PFHxA (S)	97	%	70-130		1	09/18/18 02:54	09/19/18 19:38		

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ANALYTICAL RESULTS

Project: PFOS 9/12

Pace Project No.: 7064565

Sample: S-127163 **Lab ID: 7064565012** Collected: 09/12/18 00:00 Received: 09/12/18 17:10 Matrix: Drinking Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
537 PFOA Compounds, Water		Analytical Method: EPA 537 Preparation Method: EPA 537							
Perfluorobutanesulfonic acid	<0.087	ug/L	0.087		1	09/18/18 02:54	09/19/18 19:55	375-73-5	
Perfluoroheptanoic acid	<0.0096	ug/L	0.0096		1	09/18/18 02:54	09/19/18 19:55	375-85-9	
Perfluorohexanesulfonic acid	<0.029	ug/L	0.029		1	09/18/18 02:54	09/19/18 19:55	355-46-4	
Perfluorononanoic acid	<0.019	ug/L	0.019		1	09/18/18 02:54	09/19/18 19:55	375-95-1	
Perfluorooctanesulfonic acid	<0.039	ug/L	0.039		1	09/18/18 02:54	09/19/18 19:55	1763-23-1	
Perfluorooctanoic acid	<0.0019	ug/L	0.0019		1	09/18/18 02:54	09/19/18 19:55	335-67-1	
Surrogates									
13C2-PFDA (S)	102	%	70-130		1	09/18/18 02:54	09/19/18 19:55		
13C2-PFHxA (S)	88	%	70-130		1	09/18/18 02:54	09/19/18 19:55		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PFOS 9/12
Pace Project No.: 7064565

QC Batch: 478113 Analysis Method: EPA 537
QC Batch Method: EPA 537 Analysis Description: 537 PFOA Compounds, Water
Associated Lab Samples: 7064565002, 7064565003, 7064565004, 7064565005, 7064565006, 7064565007, 7064565008, 7064565009, 7064565010, 7064565011, 7064565012

METHOD BLANK: 2589487 Matrix: Water
Associated Lab Samples: 7064565001, 7064565002, 7064565003, 7064565004, 7064565005, 7064565006, 7064565007, 7064565008, 7064565009, 7064565010, 7064565011, 7064565012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ug/L	<0.090	0.090	09/19/18 14:46	
Perfluoroheptanoic acid	ug/L	<0.010	0.010	09/19/18 14:46	
Perfluorohexanesulfonic acid	ug/L	<0.030	0.030	09/19/18 14:46	
Perfluorononanoic acid	ug/L	<0.020	0.020	09/19/18 14:46	
Perfluorooctanesulfonic acid	ug/L	<0.040	0.040	09/19/18 14:46	
Perfluorooctanoic acid	ug/L	<0.0020	0.0020	09/19/18 14:46	
13C2-PFDA (S)	%	108	70-130	09/19/18 14:46	
13C2-PFHxA (S)	%	88	70-130	09/19/18 14:46	

LABORATORY CONTROL SAMPLE & LCSD: 2589488

2590128

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Perfluorobutanesulfonic acid	ug/L	.36	0.36	0.34	101	95	50-150	6	30	
Perfluoroheptanoic acid	ug/L	.04	0.030	0.032	75	81	50-150	7	30	
Perfluorohexanesulfonic acid	ug/L	.12	0.093	0.10	77	83	50-150	8	30	
Perfluorononanoic acid	ug/L	.08	0.058	0.062	72	77	50-150	7	30	
Perfluorooctanesulfonic acid	ug/L	.16	0.13	0.13	80	84	50-150	4	30	
Perfluorooctanoic acid	ug/L	.08	0.059	0.064	74	80	50-150	8	30	
13C2-PFDA (S)	%				99	103	70-130			
13C2-PFHxA (S)	%				78	84	70-130			

LABORATORY CONTROL SAMPLE: 2589489

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ug/L	.09	0.12	130	50-150	
Perfluoroheptanoic acid	ug/L	.01	<0.010	93	50-150	
Perfluorohexanesulfonic acid	ug/L	.03	<0.030	96	50-150	
Perfluorononanoic acid	ug/L	.02	<0.020	86	50-150	
Perfluorooctanesulfonic acid	ug/L	.04	<0.040	79	50-150	
Perfluorooctanoic acid	ug/L	.02	0.017	84	50-150	
13C2-PFDA (S)	%			101	70-130	
13C2-PFHxA (S)	%			85	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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QUALITY CONTROL DATA

Project: PFOS 9/12
Pace Project No.: 7064565

QC Batch: 479178 Analysis Method: EPA 537
QC Batch Method: EPA 537 Analysis Description: 537 PFOA Compounds, Water
Associated Lab Samples: 7064565001

METHOD BLANK: 2595112 Matrix: Water
Associated Lab Samples: 7064565001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ug/L	<0.090	0.090	09/25/18 12:40	
Perfluoroheptanoic acid	ug/L	<0.010	0.010	09/25/18 12:40	
Perfluorohexanesulfonic acid	ug/L	<0.030	0.030	09/25/18 12:40	
Perfluorononanoic acid	ug/L	<0.020	0.020	09/25/18 12:40	
Perfluorooctanesulfonic acid	ug/L	<0.040	0.040	09/25/18 12:40	
Perfluorooctanoic acid	ug/L	<0.0020	0.0020	09/25/18 12:40	
13C2-PFDA (S)	%	116	70-130	09/25/18 12:40	
13C2-PFHxA (S)	%	97	70-130	09/25/18 12:40	

LABORATORY CONTROL SAMPLE & LCSD: 2595113

Parameter	Units	2596153									Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD		
Perfluorobutanesulfonic acid	ug/L	.36	0.26	0.34	73	94	50-150	25	30		
Perfluoroheptanoic acid	ug/L	.04	0.028	0.030	71	75	50-150	5	30		
Perfluorohexanesulfonic acid	ug/L	.12	0.087	0.11	73	92	50-150	24	30		
Perfluorononanoic acid	ug/L	.08	0.057	0.059	72	73	50-150	2	30		
Perfluorooctanesulfonic acid	ug/L	.16	0.12	0.12	74	77	50-150	4	30		
Perfluorooctanoic acid	ug/L	.08	0.056	0.058	70	72	50-150	3	30		
13C2-PFDA (S)	%				115	116	70-130				
13C2-PFHxA (S)	%				94	95	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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QUALIFIERS

Project: PFOS 9/12

Pace Project No.: 7064565

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PFOS 9/12

Pace Project No.: 7064565

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7064565001	S-15687	EPA 537	479178	EPA 537	479859
7064565002	S-24848	EPA 537	478113	EPA 537	478629
7064565003	S-31636	EPA 537	478113	EPA 537	478629
7064565004	COMBINED EFF.	EPA 537	478113	EPA 537	478629
7064565005	S-50970	EPA 537	478113	EPA 537	478629
7064565006	S-74071	EPA 537	478113	EPA 537	478629
7064565007	S-58350	EPA 537	478113	EPA 537	478629
7064565008	S-58351	EPA 537	478113	EPA 537	478629
7064565009	S-58352	EPA 537	478113	EPA 537	478629
7064565010	S-108065	EPA 537	478113	EPA 537	478629
7064565011	S-108066	EPA 537	478113	EPA 537	478629
7064565012	S-127163	EPA 537	478113	EPA 537	478629

REPORT OF LABORATORY ANALYSIS

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Melichy Dam 9-12-18 17:10

Sample Request Form PUBLIC WATER SUPPLIER

WO#: 7064565



WELL OFF LINE

WELL RUN TO SYSTEM

Date: 9-12-18

Collected By: Hy Deborah 1925

Accepted By: Hy Deborah 1925

Cooler Temp: 4.4 °C

Client Info: HAMPTON BAYS WATER DISTRICT
P.O. BOX 1013
HAMPTON BAYS, NEW YORK 11946
(631) 728-0179

Name or Code: _____

Address: _____

Phone #: _____

Attn: _____

Proj. # or (Name): _____

Bill To: _____

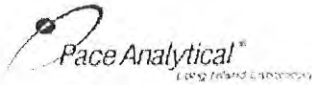
Copies To: _____

Sample Types	Purpose	Origin	Treatment Types
PW - Potable Water	RO - Routine	D - Distribution	AST - Air Stripper
GW - Groundwater	RE - Resample	RW - Raw Well	GAC - Granular Activated Charcoal
SW - Surface Water	S - Special	TW - Treated Well	N - Nitrate Removal Plant
WW - Waste Water		T - Tank	FE - Iron Removal Plant
AQ - Aqueous		MW - Monitoring Well	O - Other
S - Soil		I - Influent	
		E - Effluent	

Sample Info:

Date/Time Collected:	Sample Type	Location	Origin	Treatment Type	Purpose	Field Readings Cl ₂ pH/Temp	Analysis	Lab No.
8:10 9-12-18	GW	WELL 1-1	RW	-	S		PFC'S	001
8:05 9-12-18	GW	WELL 1-2	RW	-	S		PFC'S	002
7:45 9-12-18	GW	WELL 1-3	RW	-	S		PFC'S	003
7:55 9-12-18	GW	COMBINED EFF.	RW	-	S		PFC'S	004
8:20 9-12-18	GW	WELL 2-1	RW	-	S		PFC'S	005
8:30 9-12-18	GW	WELL 2-2	RW	-	S		PFC'S	006
9:20 9-12-18	GW	WELL 3-1	RW	-	S		PFC'S	007
9:10 9-12-18	GW	WELL 3-2	RW	-	S		PFC'S	008
9:30 9-12-18	GW	WELL 3-3	RW	-	S		PFC'S	009
8:45 9-12-18	GW	WELL 4-1	RW	-	S		PFC'S	010
8:55 9-12-18	GW	WELL 4-2	RW	-	S		PFC'S	011
9-12-18	GW	WELL 5-1	RW	-	S		PFC'S	012

Remarks: _____



Sample Condition Upon Receipt

Client Name: Hagerman Bay

Proj

WO#: 7064565

PM: SWM Due Date: 09/26/18

CLIENT: HBW

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Temperature Blank Present: Yes No

Type of Ice: Wet Blue None

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Samples on ice, cooling process has begun

Thermometer Used: TH091 Correction Factor: 0.0

Cooler Temperature (°C): 4.7 Cooler Temperature Corrected (°C): 4.7

Date/Time 5035A kits placed in freezer _____

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: CD 9-12-18

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? 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 (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12. <u>NO TIME OF COLL FOR 012</u>
-Includes date/time/ID/Analysis Matrix SL WT OIL		
All containers needing preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #		Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #		
Residual chlorine strips Lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____