

The Borough Of Sayreville

WATER DEPARTMENT

167 MAIN STREET • SAYREVILLE, N.J. 08872
TEL. (732) 390-7060 • FAX (732) 238-2147

November 16, 2007

State of New Jersey
Department of Environmental Protection
Bureau of Safe Drinking Water
P.O. Box 426
Trenton, New Jersey, 08625-0426

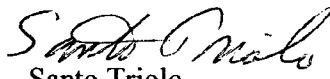
Attn: Ms. Betty Boros-Russo

Re: PFOA Sampling

Dear Ms. Boros-Russo:

Enclosed is the information as per your request. Should you require further information relative to the above, please do not hesitate to contact me at 732-390-7067.

Very truly yours,


Santo Triolo,
Director

ST: js

Succeed in Sayreville

Sayreville is an Equal Opportunity Employer

www.sayreville.com

DEP2-SDWB-000183

EXECUTIVE SUMMARY - Detection Highlights

D7H230330

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
#1 BORDENTOWN PLANT 08/22/07 08:00 001				
PFOA	0.0047 J	0.015	ug/L	DEN -LC-0012
PFOS	0.0026 J	0.010	ug/L	DEN -LC-0012
#2 MIDDLESEX INTERCONNECTION 08/22/07 08:30 002				
PFOA	0.014 J	0.015	ug/L	DEN -LC-0012
PFOS	0.010	0.010	ug/L	DEN -LC-0012
#3 MELROSE FIRE HOUSE 08/22/07 08:45 003				
PFOA	0.0091 J	0.015	ug/L	DEN -LC-0012
PFOS	0.0082 J	0.010	ug/L	DEN -LC-0012
#4 WEST MARINE 08/22/07 09:00 004				
PFOA	0.0039 J	0.015	ug/L	DEN -LC-0012
PFOS	0.0049 J	0.010	ug/L	DEN -LC-0012

Sayreville Water & Sewer

Client Sample ID: #1 BORDENTOWN PLANT

HPLC

Lot-Sample #....: D7H230330-001 Work Order #....: J5HDF1AA
 Date Sampled....: 08/22/07 08:00 Date Received...: 08/23/07
 Prep Date.....: 08/27/07 Analysis Date...: 08/31/07
 Prep Batch #....: 7239118 Analysis Time...: 19:48
 Dilution Factor: 1

Matrix.....: WATER

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
PFOA	0.0047 J	0.015	ug/L	0.0031
PFOS	0.0026 J	0.010	ug/L	0.0020
SURROGATE	PERCENT		RECOVERY	
	RECOVERY		LIMITS	
13C4 PFOA	55		(50 - 200)	
13C4 PFOS	36 *		(50 - 200)	

NOTE(S) :

- * Surrogate recovery is outside stated control limits.
- J Estimated result. Result is less than RL.

Sayreville Water & Sewer

Client Sample ID: #2 MIDDLESEX INTERCONNECTION

HPLC

Lot-Sample #....: D7H230330-002 Work Order #....: JSHDG1AA Matrix.....: WATER
Date Sampled....: 08/22/07 08:30 Date Received...: 08/23/07
Prep Date.....: 08/27/07 Analysis Date...: 08/31/07
Prep Batch #....: 7239118 Analysis Time...: 20:36
Dilution Factor: 1
Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
PFOA	0.014 J	0.015	ug/L	0.0031
PFOS	0.010	0.010	ug/L	0.0020

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	58	(50 - 200)
13C4 PFOS	44 *	(50 - 200)

NOTE(S) :

- * Surrogate recovery is outside stated control limits.
- J Estimated result. Result is less than RL.

Sayreville Water & Sewer

Client Sample ID: #3 MELROSE FIRE HOUSE

HPLC

Lot-Sample #....: D7H230330-003 Work Order #....: J5HDJ1AA Matrix.....: WATER
Date Sampled....: 08/22/07 08:45 Date Received...: 08/23/07
Prep Date.....: 08/27/07 Analysis Date...: 08/31/07
Prep Batch #....: 7239118 Analysis Time...: 20:53
Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
PFOA	0.0091 J	0.015	ug/L	0.0031
PFOS	0.0082 J	0.010	ug/L	0.0020

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	70	(50 - 200)
13C4 PFOS	61	(50 - 200)

NOTE(S) :

I Estimated result. Result is less than RL.

Sayreville Water & Sewer

Client Sample ID: #4 WEST MARINE

HPLC

Lot-Sample #....: D7H230330-004 Work Order #....: J5HDK1AA
Date Sampled....: 08/22/07 09:00 Date Received...: 08/23/07
Prep Date.....: 08/27/07 Analysis Date...: 08/31/07
Prep Batch #....: 7239118 Analysis Time...: 21:09
Dilution Factor: 1

Matrix.....: WATER

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
PFOA	0.0039 J	0.015	ug/L	0.0031
PFOS	0.0049 J	0.010	ug/L	0.0020

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
13C4 PFOA	68	(50 - 200)
13C4 PFOS	57	(50 - 200)

NOTE(S) :

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

HPLC

Client Lot #...: D7H230330
 MB Lot-Sample #: R7H270000-118
 Analysis Date...: 08/31/07
 Dilution Factor: 1

Work Order #...: J5M3W1AA
 Prep Date.....: 08/27/07
 Prep Batch #...: 7239118

Matrix.....: WATER
 Analysis Time...: 19:00

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
PFOA	ND	0.015	ug/L	DEN -LC-0012
PFOS	ND	0.010	ug/L	DEN -LC-0012
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
	<u>RECOVERY</u>	<u>LIMITS</u>		
	13C4 PFOA	53	(50 - 200)	
13C4 PFOS	45 *	(50 - 200)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

- * Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #....: D7H230330 Work Order #....: J5M3WLAC Matrix.....: WATER
 LCS Lot-Sample#: R7H270000-118
 Prep Date.....: 08/27/07 Analysis Date...: 08/31/07
 Prep Batch #....: 7239118 Analysis Time...: 19:16
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
PFOA	106	(70 - 130)	DEN -LC-0012
PFOS	92	(39 - 120)	DEN -LC-0012

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	56	(50 - 200)
13C4 PFOS	45 *	(50 - 200)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

HPLC

Client Lot #....: D7H230330 Work Order #....: J5HDF1AC-MS Matrix.....: WATER
 MS Lot-Sample #: D7H230330-001 J5HDF1AD-MSD
 Date Sampled....: 08/22/07 08:00 Date Received...: 08/23/07
 Prep Date.....: 08/27/07 Analysis Date...: 08/31/07
 Prep Batch #....: 7239118 Analysis Time...: 20:04
 Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
PFOA	0.0047	0.201	0.228	ug/L	111		DBN -LC-0012
	0.0047	0.196	0.222	ug/L	111	2.6	DBN -LC-0012
PFOS	0.0026	0.201	0.226	ug/L	111		DBN -LC-0012
	0.0026	0.196	0.179	ug/L	90 p	23	DBN -LC-0012

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	64	(50 - 200)
	57	(50 - 200)
13C4 PFOS	44 *	(50 - 200)
	45 *	(50 - 200)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

2007 NOV 25 PM 2:12

HPLC

Client Lot #....: D7H230330 Work Order #....: J5HDF1AC-MS Matrix.....: WATER
 MS Lot-Sample #: D7H230330-001 J5HDF1AD-MSD
 Date Sampled....: 08/22/07 08:00 Date Received...: 08/23/07
 Prep Date.....: 08/27/07 Analysis Date...: 08/31/07
 Prep Batch #....: 7239118 Analysis Time...: 20:04
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
PFOA	111	(70 - 130)			DEN -LC-0012
	111	(70 - 130)	2.6	(0-20)	DEN -LC-0012
PFOS	111	(39 - 120)			DEN -LC-0012
	90 p	(39 - 120)	23	(0-20)	DEN -LC-0012

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C4 PFOA	64	(50 - 200)
	57	(50 - 200)
13C4 PFOS	44 *	(50 - 200)
	45 *	(50 - 200)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

HPLC

Client Lot #....: D7H230330 Work Order #....: J5M3WLAD Matrix.....: WATER
 LCS Lot-Sample#: R7H270000-118
 Prep Date.....: 08/27/07 Analysis Date...: 08/31/07
 Prep Batch #....: 7239118 Analysis Time...: 19:32
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
PFOA	0.0200	0.0190	ug/L	95	DEN -LC-0012
PFOS	0.0200	0.0158	ug/L	79	DEN -LC-0012
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
13C4 PFOA		52	(50 - 200)		
13C4 PFOS		35 *	(50 - 200)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

HPLC

Client Lot #....: D7H230330 Work Order #....: J5M3W1AD Matrix.....: WATER
 LCS Lot-Sample#: R7H270000-118
 Prep Date.....: 08/27/07 Analysis Date...: 08/31/07
 Prep Batch #....: 7239118 Analysis Time...: 19:32
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
PFOA	95	(70 - 130)	DEN -LC-0012
PFOS	79	(39 - 120)	DEN -LC-0012

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	52	(50 - 200)
13C4 PFOS	35 *	(50 - 200)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

7007 NOV 26 PM 2:12

HPLC

Client Lot #...: D7H230330
LCS Lot-Sample#: R7H270000-118
Prep Date.....: 08/27/07
Prep Batch #...: 7239118
Dilution Factor: 1

Work Order #...: J5M3W1AC
Analysis Date...: 08/31/07
Analysis Time...: 19:16

Matrix.....: WATER

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
PFOA	0.200	0.212	ug/L	106	DEN -LC-0012
PFOS	0.200	0.184	ug/L	92	DEN -LC-0012
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
13C4 PFOA		56	(50 - 200)		
13C4 PFOS		45 *	(50 - 200)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.