eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

ORELAP 4034

AT-1807

Laboratory Report

for

Kleinfelder
3 AAA Drive, First Floor
Hamilton, NJ 08691
Attention: James L. Killen
Fax: 609.584.7498

Date of Issue
02/19/2015

Linda Geddes
EUROFINS EATON
ANALYTICAL

LXG: Linda Geddes

Project Manager

Report: 519301
Project: PFC
Group: PFC

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
* Test results relate only to the sample(s) tested.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nebraska**	Certified
Arkansas	Certified	**Nevada**	CA00006-2014-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	**New Mexico**	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	14-003r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016
Idaho	Certified	**South Dakota**	Certified
Illinois *	200033	**Tennessee**	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-7
Kansas *	E-10268	Utah *	CA000062014-7
Kentucky	90107	**Vermont**	VT0114
Louisiana *	LA140009	Virginia *	460260
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: http://www.eatonanalytical.com

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DBCP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-$S^{=}$ D			x
Sulfite	SM 4500-SO^3B	x	x	x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

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Acknowledgement of Samples Received

Addr: **Kleinfelder**
3 AAA Drive, First Floor
Hamilton, NJ 08691

Client ID: KLEINFELDER-NJ
Folder #: 519301
Project: PFC
Sample Group: PFC

Attn: James L. Killen
Phone: 609.584.5271 x 386

Project Manager: Linda Geddes
Phone: (626) 386-1163

The following samples were received from you on **February 05, 2015** at **1637**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201502050748	PW0034	02/04/2015 0910
	@537	
201502050750	PW0035	02/04/2015 1000
	@537	
201502050751	PW0036	02/04/2015 1115
	@537	
201502050752	PW0036 MS	02/04/2015 1115
	@537	
201502050753	PW0036 MSD	02/04/2015 1115
	@537	
201502050754	PW0037	02/04/2015 1155
	@537	
201502050755	PW0038	02/04/2015 1220
	@537	
201502050756	PW0039	02/04/2015 1225
	@537	
201502050757	PW0040	02/04/2015 1415
	@537	
201502050759	PW0041	02/04/2015 1505
	@537	
201502050760	FB_020415	02/04/2015 1515
	@537 FB	

Test Description

@537 -- Perfluorinated Alkyl Acids

@537 FB -- Perfluorinated Alkyl Acids

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

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CHAIN OF CUSTODY RECORD

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: _____ SAMPLES CHECKED AGAINST COC BY: HS

SAMPLES LOGGED IN BY: _____

SAMPLE TEMP RECEIVED AT: SAMPLES REC'D DAY OF COLLECTION? [ ] (check for yes)

[ ] Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

[✓] Monrovia 6-3-0-3 6.0°C °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice ✓ No Ice _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / (FedEx) / UPS / DHL / Area Fast / Top Line / Other: _____

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: NJDEP

PROJECT CODE: SOLVAY

COMPLIANCE SAMPLES [X] (check for yes) NON-COMPLIANCE SAMPLES [ ] (check for yes)

- Requires state forms [ ] REGULATION INVOLVED: _____

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)

EEA CLIENT CODE: _____ COC ID: _____ SAMPLE GROUP: SDG:5

SEE ATTACHED BOTTLE ORDER FOR ANALYSES [ ] (check for yes), *OR*

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

TAT requested: rush by adv notice only STD ____ 1 wk ____ 3 day ____ 2 day ____ 1 day ____

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	SS												SAMPLER COMMENTS
2/4/15	0910	PW0034		RGW	pH 7.16		2												
	1000	PW0035					2												
	1115	PW0036					6												MS/MSD
	1155	PW0037					2												
	1220	PW0038					2												
	1225	PW0039					2												
	1415	PW0040					2												
	1505	PW0041					2												
	1515	FB.020415		FB			2												

TRK# (0200) 8045 5615 9649

* MATRIX TYPES: RSW = Raw Surface Water, RGW = Raw Ground Water, CFW = Chlor(am)inated Finished Water, FW = Other Finished Water, SEAW = Sea Water, WW = Waste Water, BW = Bottled Water, SW = Storm Water, SO = Soil, SL = Sludge, O = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:		Ashley Deen	Klonfelder/Env. Sci.	02/04/15	1530
RELINQUISHED BY:		Ashley Deen	KLF / Env. Sci	02/04/15	1600
RECEIVED BY:		M. Escalante	EEA	2/5/15	16:37
RELINQUISHED BY:					
RECEIVED BY:					

QA FO 0023 (06/26/2013)

PAGE 1 OF 1

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Eaton Analytical
formerly NWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Kleinfelder

Linda Geddes is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 105555
Created By: LXG
Deliver By: 02/03/2015
STG: Bottle Orders
Ice Type: W

Client ID: KLEINFELDER-NJ
Project Code: PFC Bottle Orders
Group Name: PFC
PO#/JOB#:

Ship Sample Kits to
Kleinfelder
3 AAA Drive, First Floor
Hamilton, NJ 08691

Attn: James L. Killen
Phone: 609.584.5271 x 386
Fax: 609.584.7498

Send Report to
Kleinfelder
3 AAA Drive, First Floor
Hamilton, NJ 08691

Attn: James L. Killen
Phone: 609.584.5271 x 386
Fax: 609.584.7498

Billing Address
New Jersey Department of
Environmental Protection

,

Attn: Greg Toffoli

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
11	@537	2 275 ml polypro w polypro cap 1.4 g Trisma	
1	@537 FB	2 275 ml polypro w polypro cap no preservative	
1	@537 TB	2 275 ml polypro w polypro cap 1.4g Trisma + H2O	

Comments

SEND MONDAY FOR TUESDAY DELIVERY 2/3/15
BE SURE TO INCLUDE CUSTODY SEALS ON THE COOLER
WO6-020415

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

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formerly MWH Laboratories

Kit Order for Kleinfelder

Linda Geddes is your Eurofins Eaton Analytical Project Manager

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Note: Sampler Please return this paper with your samples

Kit #: 105555
Created By: LXG
Deliver By: 02/03/2015
STG: Bottle Orders
Ice Type: W

Client ID: KLEINFELDER-NJ
Project Code: PFC Bottle Orders
Group Name: PFC
PO#/JOB#:

Ship Sample Kits to
Kleinfelder
3 AAA Drive, First Floor
Hamilton, NJ 08691

Attn: James L. Killen
Phone: 609.584.5271 x 386
Fax: 609.584.7498

Send Report to
Kleinfelder
3 AAA Drive, First Floor
Hamilton, NJ 08691

Attn: James L. Killen
Phone: 609.584.5271 x 386
Fax: 609.584.7498

Billing Address
New Jersey Department of
Environmental Protection

,

Attn: Greg Toffoli

# of Sample	Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
11	@537	2 275 ml polypro w polypro cap 1.4 g Trisma	
1	@537 FB	2 275 ml polypro w polypro cap no preservative	
1	@537 TB	2 275 ml polypro w polypro cap 1.4g Trisma + H2O	

Comments

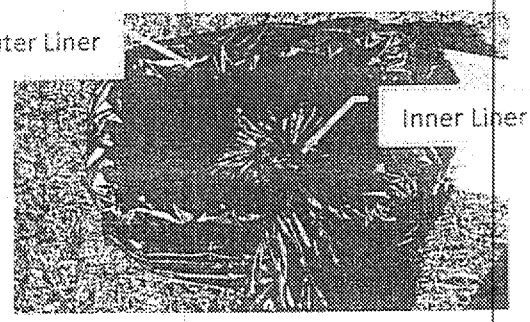
SEND MONDAY FOR TUESDAY DELIVERY 2/3/15
BE SURE TO INCLUDE CUSTODY SEALS ON THE COOLER
WO6-020415

Code	Status	Date Shipped	Via	Tracking #	# of Coolers	Prepared By

Wet Ice Packing Instructions

Courier delivery service (i.e. FEDEX or UPS) will NOT transport LEAKING Coolers. It is very important that the wet ice is all contained in sealed bags.

1) After sampling, insert sample containers back into original bubble wrap, Ziploc style bags, or other inserts.
2) Your kits should include 2 large heavy-weight plastic bags.
3) Place the first large bag in the interior of the cooler. This bag will be your "*outer liner*." No water or ice should be placed outside this bag.
4) Pour in some wet ice in a single layer to cover the bottom of the outer liner.
5) Add a second large bag to the cooler so that it fits inside the *outer liner*. The second bag will be your "*inner liner*."



6) Place bagged samples inside the inner liner.
7) Tie a knot at the top of the inner bag around the sample containers.
8) Pour ice onto and around the inner liner to fill up any empty spaces on the outside of the inner liner until the cooler is full. The ice should fill up about 30-50% of the content of cooler. Make sure that there are enough loose ends to tie the outer liner in a knot
9) Tie a knot at the top of the outer liner in a manner that ensures there will be no leakage.
10) Place completed Chain of Custody and Kit Order in a Ziploc bag and place them in the cooler on top of the outer liner.
11) Ensure contents will not move too much when cooler is closed.
12) Secure shut the cooler with packing tape before you ship it out.

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750 Royal Oaks Drive, Suite 100
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Laboratory Comments
Report: 519301

Kleinfelder
James L. Killen
3 AAA Drive, First Floor
Hamilton, NJ 08691

Flags Legend:

S6 - Surrogate recovery was below laboratory and method acceptance limits. Re-extraction and/or reanalysis confirms low recovery caused by matrix effect.

The Comments Report may be blank if there are no comments for this report.

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750 Royal Oaks Drive, Suite 100
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1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 519301

Kleinfelder
James L. Killen
3 AAA Drive, First Floor
Hamilton, NJ 08691

Samples Received on:
02/05/2015 1637

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	201502050748	**PW0034**				
02/11/2015 21:26	Perfluoroheptanoic acid		0.0025		ug/L	0.003
02/11/2015 21:26	Perfluorohexanoic acid		0.0051		ug/L	0.0025
02/11/2015 21:26	Perfluorononanoic acid		0.017		ug/L	0.003
02/11/2015 21:26	Perfluorooctanesulfonic acid		0.0045		ug/L	0.003
02/11/2015 21:26	Perfluorooctanoic acid		0.016		ug/L	0.003
	201502050750	**PW0035**				
02/11/2015 21:47	Perfluoroheptanoic acid		0.011		ug/L	0.003
02/11/2015 21:47	Perfluorohexanesulfonic acid		0.0034		ug/L	0.003
02/11/2015 21:47	Perfluorohexanoic acid		0.020		ug/L	0.0025
02/11/2015 21:47	Perfluorononanoic acid		0.0061		ug/L	0.003
02/11/2015 21:47	Perfluorooctanesulfonic acid		0.0030		ug/L	0.003
02/11/2015 21:47	Perfluorooctanoic acid		0.024		ug/L	0.003
	201502050751	**PW0036**				
02/11/2015 19:02	Perfluorohexanoic acid		0.0040		ug/L	0.0025
02/11/2015 19:02	Perfluorononanoic acid		0.0026		ug/L	0.003
02/11/2015 19:02	Perfluorooctanoic acid		0.0046		ug/L	0.003
	201502050754	**PW0037**				
02/12/2015 00:53	Perfluorohexanoic acid		0.0026		ug/L	0.0025
02/12/2015 00:53	Perfluorononanoic acid		0.0088		ug/L	0.003
02/12/2015 00:53	Perfluorooctanoic acid		0.0067		ug/L	0.003
	201502050755	**PW0038**				
02/12/2015 1:13	Perfluorohexanoic acid		0.0036		ug/L	0.0025
02/12/2015 1:13	Perfluorononanoic acid		0.0059		ug/L	0.003
02/12/2015 1:13	Perfluorooctanoic acid		0.0059		ug/L	0.003
	201502050756	**PW0039**				
02/12/2015 1:34	Perfluorohexanoic acid		0.0035		ug/L	0.0025
02/12/2015 1:34	Perfluorononanoic acid		0.0055		ug/L	0.003
02/12/2015 1:34	Perfluorooctanoic acid		0.0056		ug/L	0.003

SUMMARY OF POSITIVE DATA ONLY

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750 Royal Oaks Drive, Suite 100
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Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Data
Report: 519301

Kleinfelder
James L. Killen
3 AAA Drive, First Floor
Hamilton, NJ 08691
USA

Samples Received on:
02/05/2015 1637

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
PW0034 (201502050748)						**Sampled on 02/04/2015 0910**			
			EPA 537 - Perfluorinated Alkyl Acids						
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.00073	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorodecanoic acid	0.00052J	ug/L	0.00028	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.00064	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluoroheptanoic acid	0.0025J	ug/L	0.00036	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorohexanesulfonic acid	0.00097J	ug/L	0.00046	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorohexanoic acid	0.0051	ug/L	0.0039	0.0025	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorononanoic acid	0.017	ug/L	0.00035	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorooctanesulfonic acid	0.0045	ug/L	0.00020	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorooctanoic acid	0.016	ug/L	0.00023	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0014	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.00083	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.00044	0.003	1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	13C-PFDA	79	%			1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	13C-PFHxA	88	%			1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	13C-PFOA	112	%			1
2/6/2015	02/11/2015 21:26	819026	(EPA 537)	13C-PFOS	105	%			1
PW0035 (201502050750)						**Sampled on 02/04/2015 1000**			
			EPA 537 - Perfluorinated Alkyl Acids						
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorobutanesulfonic acid	0.0019J	ug/L	0.00073	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.00028	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.00064	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluoroheptanoic acid	0.011	ug/L	0.00036	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorohexanesulfonic acid	0.0034	ug/L	0.00046	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorohexanoic acid	0.020	ug/L	0.0039	0.0025	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorononanoic acid	0.0061	ug/L	0.00035	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorooctanesulfonic acid	0.0030	ug/L	0.00020	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorooctanoic acid	0.024	ug/L	0.00023	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0014	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.00083	0.003	1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.00044	0.003	1

Rounding on totals after summation.
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Laboratory Data
Report: 519301

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Samples Received on:
02/05/2015 1637

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	13C-PFDA	71	%			1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	13C-PFHxA	89	%			1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	13C-PFOA	117	%			1
2/6/2015	02/11/2015 21:47	819026	(EPA 537)	13C-PFOS	107	%			1

PW0036 (201502050751) **Sampled on 02/04/2015 1115**

EPA 537 - Perfluorinated Alkyl Acids

2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorobutanesulfonic acid	ND(S6)	ug/L	0.00073	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorodecanoic acid	ND(S6)	ug/L	0.00028	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorododecanoic acid	ND(S6)	ug/L	0.00064	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluoroheptanoic acid	0.0022J(S6)	ug/L	0.00036	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorohexanesulfonic acid	ND(S6)	ug/L	0.00046	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorohexanoic acid	0.0040(S6)	ug/L	0.0039	0.0025	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorononanoic acid	0.0026J(S6)	ug/L	0.00035	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorooctanesulfonic acid	ND(S6)	ug/L	0.00020	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorooctanoic acid	0.0046(S6)	ug/L	0.00023	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorotetradecanoic acid	ND(S6)	ug/L	0.0014	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluorotridecanoic acid	ND(S6)	ug/L	0.00083	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	Perfluoroundecanoic acid	ND(S6)	ug/L	0.00044	0.003	1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	13C-PFDA	64(S6)	%			1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	13C-PFHxA	89	%			1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	13C-PFOA	110	%			1
2/6/2015	02/11/2015 19:02	819026	(EPA 537)	13C-PFOS	103	%			1

PW0036 MS (201502050752) **Sampled on 02/04/2015 1115**

EPA 537 - Perfluorinated Alkyl Acids

2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorobutanesulfonic acid	0.021(S6)	ug/L	0.00073	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorodecanoic acid	0.020(S6)	ug/L	0.00028	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorododecanoic acid	0.020(S6)	ug/L	0.00064	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluoroheptanoic acid	0.025(S6)	ug/L	0.00036	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorohexanesulfonic acid	0.022(S6)	ug/L	0.00046	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorohexanoic acid	0.026(S6)	ug/L	0.0039	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorononanoic acid	0.023(S6)	ug/L	0.00035	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorooctanesulfonic acid	0.019(S6)	ug/L	0.00020	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorooctanoic acid	0.027(S6)	ug/L	0.00023	0.0025	1

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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorotetradecanoic acid	0.019(S6)	ug/L	0.0014	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluorotridecanoic acid	0.020(S6)	ug/L	0.00083	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	Perfluoroundecanoic acid	0.020(S6)	ug/L	0.00044	0.0025	1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	13C-PFDA	59(S6)	%			1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	13C-PFHxA	88	%			1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	13C-PFOA	114	%			1
2/6/2015	02/11/2015 19:22	819026	(EPA 537)	13C-PFOS	108	%			1

PW0036 MSD (201502050753) **Sampled on 02/04/2015 1115**

EPA 537 - Perfluorinated Alkyl Acids

2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorobutanesulfonic acid	0.022(S6)	ug/L	0.00073	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorodecanoic acid	0.021(S6)	ug/L	0.00028	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorododecanoic acid	0.022(S6)	ug/L	0.00064	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluoroheptanoic acid	0.026(S6)	ug/L	0.00036	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorohexanesulfonic acid	0.023(S6)	ug/L	0.00046	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorohexanoic acid	0.027(S6)	ug/L	0.0039	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorononanoic acid	0.025(S6)	ug/L	0.00035	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorooctanesulfonic acid	0.020(S6)	ug/L	0.00020	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorooctanoic acid	0.029(S6)	ug/L	0.00023	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorotetradecanoic acid	0.020(S6)	ug/L	0.0014	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluorotridecanoic acid	0.021(S6)	ug/L	0.00083	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	Perfluoroundecanoic acid	0.022(S6)	ug/L	0.00044	0.0025	1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	13C-PFDA	66(S6)	%			1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	13C-PFHxA	88	%			1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	13C-PFOA	113	%			1
2/6/2015	02/11/2015 19:43	819026	(EPA 537)	13C-PFOS	105	%			1

PW0037 (201502050754) **Sampled on 02/04/2015 1155**

EPA 537 - Perfluorinated Alkyl Acids

2/6/2015	02/12/2015 00:53	819026	(EPA 537)	Perfluorobutanesulfonic acid	ND(S6)	ug/L	0.00073	0.003	1
2/6/2015	02/12/2015 00:53	819026	(EPA 537)	Perfluorodecanoic acid	0.00086J(S6)	ug/L	0.00028	0.003	1
2/6/2015	02/12/2015 00:53	819026	(EPA 537)	Perfluorododecanoic acid	ND(S6)	ug/L	0.00064	0.003	1
2/6/2015	02/12/2015 00:53	819026	(EPA 537)	Perfluoroheptanoic acid	0.0016J(S6)	ug/L	0.00036	0.003	1
2/6/2015	02/12/2015 00:53	819026	(EPA 537)	Perfluorohexanesulfonic acid	ND(S6)	ug/L	0.00046	0.003	1

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Samples Received on:
02/05/2015 1637

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	Perfluorohexanoic acid	0.0026(S6)	ug/L	0.0039	0.0025	1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	Perfluorononanoic acid	0.0088(S6)	ug/L	0.00035	0.003	1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	Perfluorooctanesulfonic acid	0.0015J(S6)	ug/L	0.00020	0.003	1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	Perfluorooctanoic acid	0.0067(S6)	ug/L	0.00023	0.003	1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	Perfluorotetradecanoic acid	ND(S6)	ug/L	0.0014	0.003	1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	Perfluorotridecanoic acid	ND(S6)	ug/L	0.00083	0.003	1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	Perfluoroundecanoic acid	0.00068J(S6)	ug/L	0.00044	0.003	1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	13C-PFDA	61(S6)	%			1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	13C-PFHxA	87	%			1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	13C-PFOA	115	%			1
2/6/2015	02/12/2015	00:53	819026	(EPA 537)	13C-PFOS	104	%			1

PW0038 (201502050755) **Sampled on 02/04/2015 1220**

EPA 537 - Perfluorinated Alkyl Acids

2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorobutanesulfonic acid	ND(S6)	ug/L	0.00073	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorodecanoic acid	ND(S6)	ug/L	0.00028	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorododecanoic acid	ND(S6)	ug/L	0.00064	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluoroheptanoic acid	0.0024J(S6)	ug/L	0.00036	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorohexanesulfonic acid	ND(S6)	ug/L	0.00046	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorohexanoic acid	0.0036(S6)	ug/L	0.0039	0.0025	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorononanoic acid	0.0059(S6)	ug/L	0.00035	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorooctanesulfonic acid	ND(S6)	ug/L	0.00020	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorooctanoic acid	0.0059(S6)	ug/L	0.00023	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorotetradecanoic acid	ND(S6)	ug/L	0.0014	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluorotridecanoic acid	ND(S6)	ug/L	0.00083	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	Perfluoroundecanoic acid	ND(S6)	ug/L	0.00044	0.003	1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	13C-PFDA	52(S6)	%			1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	13C-PFHxA	89	%			1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	13C-PFOA	109	%			1
2/6/2015	02/12/2015	1:13	819026	(EPA 537)	13C-PFOS	99	%			1

PW0039 (201502050756) **Sampled on 02/04/2015 1225**

EPA 537 - Perfluorinated Alkyl Acids

2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorobutanesulfonic acid	ND(S6)	ug/L	0.00073	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorodecanoic acid	ND(S6)	ug/L	0.00028	0.003	1

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Samples Received on:
02/05/2015 1637

Prepared	Analyzed		QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorododecanoic acid	ND(S6)	ug/L	0.00064	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluoroheptanoic acid	0.0023J(S6)	ug/L	0.00036	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorohexanesulfonic acid	ND(S6)	ug/L	0.00046	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorohexanoic acid	0.0035(S6)	ug/L	0.0039	0.0025	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorononanoic acid	0.0055(S6)	ug/L	0.00035	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorooctanesulfonic acid	ND(S6)	ug/L	0.00020	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorooctanoic acid	0.0056(S6)	ug/L	0.00023	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorotetradecanoic acid	ND(S6)	ug/L	0.0014	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluorotridecanoic acid	ND(S6)	ug/L	0.00083	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	Perfluoroundecanoic acid	ND(S6)	ug/L	0.00044	0.003	1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	13C-PFDA	38(S6)	%			1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	13C-PFHxA	87	%			1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	13C-PFOA	117	%			1
2/6/2015	02/12/2015	1:34	819026	(EPA 537)	13C-PFOS	107	%			1

PW0040 (201502050757) **Sampled on 02/04/2015 1415**

EPA 537 - Perfluorinated Alkyl Acids

2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorobutanesulfonic acid	ND(S6)	ug/L	0.00073	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorodecanoic acid	ND(S6)	ug/L	0.00028	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorododecanoic acid	ND(S6)	ug/L	0.00064	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluoroheptanoic acid	ND(S6)	ug/L	0.00036	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorohexanesulfonic acid	ND(S6)	ug/L	0.00046	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorohexanoic acid	ND(S6)	ug/L	0.0039	0.0025	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorononanoic acid	ND(S6)	ug/L	0.00035	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorooctanesulfonic acid	ND(S6)	ug/L	0.00020	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorooctanoic acid	0.0011J(S6)	ug/L	0.00023	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorotetradecanoic acid	ND(S6)	ug/L	0.0014	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluorotridecanoic acid	ND(S6)	ug/L	0.00083	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	Perfluoroundecanoic acid	ND(S6)	ug/L	0.00044	0.003	1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	13C-PFDA	58(S6)	%			1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	13C-PFHxA	86	%			1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	13C-PFOA	119	%			1
2/6/2015	02/12/2015	1:54	819026	(EPA 537)	13C-PFOS	110	%			1

PW0041 (201502050759) **Sampled on 02/04/2015 1505**

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Samples Received on:
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Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
		EPA 537 - Perfluorinated Alkyl Acids							
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorobutanesulfonic acid	ND(S6)	ug/L	0.00073	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorodecanoic acid	ND(S6)	ug/L	0.00028	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorododecanoic acid	ND(S6)	ug/L	0.00064	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluoroheptanoic acid	ND(S6)	ug/L	0.00036	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorohexanesulfonic acid	ND(S6)	ug/L	0.00046	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorohexanoic acid	ND(S6)	ug/L	0.0039	0.0025	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorononanoic acid	ND(S6)	ug/L	0.00035	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorooctanesulfonic acid	ND(S6)	ug/L	0.00020	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorooctanoic acid	0.00079J(S6)	ug/L	0.00023	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorotetradecanoic acid	ND(S6)	ug/L	0.0014	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluorotridecanoic acid	ND(S6)	ug/L	0.00083	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	Perfluoroundecanoic acid	ND(S6)	ug/L	0.00044	0.003	1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	13C-PFDA	65(S6)	%			1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	13C-PFHxA	89	%			1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	13C-PFOA	115	%			1
2/6/2015	02/11/2015 22:07	819026	(EPA 537)	13C-PFOS	106	%			1
FB_020415 (201502050760)						**Sampled on 02/04/2015 1515**			
		EPA 537 - Perfluorinated Alkyl Acids							
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorobutanesulfonic acid	ND	ug/L	0.00073	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.00028	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.00064	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluoroheptanoic acid	ND	ug/L	0.00036	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorohexanesulfonic acid	ND	ug/L	0.00046	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorohexanoic acid	ND	ug/L	0.0039	0.0025	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.00035	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorooctanesulfonic acid	ND	ug/L	0.00020	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorooctanoic acid	0.00046J	ug/L	0.00023	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0014	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.00083	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.00044	0.003	1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	13C-PFDA	84	%			1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	13C-PFHxA	91	%			1

Rounding on totals after summation.
(c) - Indicates calculated results.
ND - Analyte was not detected at the calculated MDL.
J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria.

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Laboratory Data
Report: 519301

Kleinfelder
James L. Killen
3 AAA Drive, First Floor
Hamilton, NJ 08691
USA

Samples Received on:
02/05/2015 1637

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	13C-PFOA	115	%			1
2/6/2015	02/11/2015 20:04	819026	(EPA 537)	13C-PFOS	108	%			1

Rounding on totals after summation.
(c) - Indicates calculated results.
ND - Analyte was not detected at the calculated MDL.
J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria.

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QC Ref # 819026 - Perfluorinated Alkyl Acids **Analysis Date: 02/11/2015**

201502050748	PW0034	Analyzed by: LHZ
201502050750	PW0035	Analyzed by: LHZ
201502050751	PW0036	Analyzed by: LHZ
201502050751	PW0036	Analyzed by: LHZ
201502050752	PW0036 MS	Analyzed by: LHZ
201502050752	PW0036 MS	Analyzed by: LHZ
201502050753	PW0036 MSD	Analyzed by: LHZ
201502050753	PW0036 MSD	Analyzed by: LHZ
201502050754	PW0037	Analyzed by: LHZ
201502050754	PW0037	Analyzed by: LHZ
201502050755	PW0038	Analyzed by: LHZ
201502050755	PW0038	Analyzed by: LHZ
201502050756	PW0039	Analyzed by: LHZ
201502050756	PW0039	Analyzed by: LHZ
201502050757	PW0040	Analyzed by: LHZ
201502050757	PW0040	Analyzed by: LHZ
201502050759	PW0041	Analyzed by: LHZ
201502050759	PW0041	Analyzed by: LHZ
201502050760	FB_020415	Analyzed by: LHZ

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Report: 519301

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 819026 - Perfluorinated Alkyl Acids by EPA 537						**Analysis Date: 02/11/2015**			
LCS1	13C-PFDA (S)			78.0	%	78	(70-130)		
LCS2	13C-PFDA (S)			83.4	%	83	(70-130)		
MBLK	13C-PFDA (S)			84.1	%	84	(70-130)		
MRL_CHK	13C-PFDA (S)			80.7	%	81	(70-130)		
MS1_201502050751	13C-PFDA (S)			59.3	%	**59**	(70-130)		
MSD1_201502050751	13C-PFDA (S)			65.7	%	**66**	(70-130)		
LCS1	13C-PFHxA (S)			88.0	%	88	(70-130)		
LCS2	13C-PFHxA (S)			89.3	%	89	(70-130)		
MBLK	13C-PFHxA (S)			89.5	%	89	(70-130)		
MRL_CHK	13C-PFHxA (S)			89.9	%	90	(70-130)		
MS1_201502050751	13C-PFHxA (S)			87.9	%	88	(70-130)		
MSD1_201502050751	13C-PFHxA (S)			88.5	%	88	(70-130)		
LCS1	13C-PFOA (I)			118	%	118	(50-150)		
LCS2	13C-PFOA (I)			114	%	114	(50-150)		
MBLK	13C-PFOA (I)			115	%	115	(50-150)		
MRL_CHK	13C-PFOA (I)			112	%	112	(50-150)		
MS1_201502050751	13C-PFOA (I)			114	%	114	(50-150)		
MSD1_201502050751	13C-PFOA (I)			113	%	113	(50-150)		
LCS1	13C-PFOS (I)			114	%	114	(50-150)		
LCS2	13C-PFOS (I)			109	%	109	(50-150)		
MBLK	13C-PFOS (I)			108	%	109	(50-150)		
MRL_CHK	13C-PFOS (I)			106	%	106	(50-150)		
MS1_201502050751	13C-PFOS (I)			108	%	108	(50-150)		
MSD1_201502050751	13C-PFOS (I)			105	%	105	(50-150)		
LCS1	Perfluorobutanesulfonic acid		0.022	0.0206	ug/L	93	(70-130)		
LCS2	Perfluorobutanesulfonic acid		0.022	0.0212	ug/L	95	(70-130)	30	2.9
MBLK	Perfluorobutanesulfonic acid			<0.00074	ug/L				
MRL_CHK	Perfluorobutanesulfonic acid		0.0022	0.00216	ug/L	97	(50-150)		
MS1_201502050751	Perfluorobutanesulfonic acid	ND	0.022	0.0213	ug/L	96	(70-130)		
MSD1_201502050751	Perfluorobutanesulfonic acid	ND	0.022	0.0224	ug/L	100	(70-130)	30	5.0
LCS1	Perfluorodecanoic acid		0.025	0.0216	ug/L	86	(70-130)		
LCS2	Perfluorodecanoic acid		0.025	0.0229	ug/L	92	(70-130)	30	5.8
MBLK	Perfluorodecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorodecanoic acid		0.0025	0.00221	ug/L	89	(50-150)		
MS1_201502050751	Perfluorodecanoic acid	ND	0.025	0.0199	ug/L	80	(70-130)		
MSD1_201502050751	Perfluorodecanoic acid	ND	0.025	0.0214	ug/L	86	(70-130)	30	7.3

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
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RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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Laboratory QC
Report: 519301

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Perfluorododecanoic acid		0.025	0.0199	ug/L	80	(70-130)		
LCS2	Perfluorododecanoic acid		0.025	0.0215	ug/L	86	(70-130)	30	7.7
MBLK	Perfluorododecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorododecanoic acid		0.0025	0.00215	ug/L	86	(50-150)		
MS1_201502050751	Perfluorododecanoic acid	ND	0.025	0.0201	ug/L	80	(70-130)		
MSD1_201502050751	Perfluorododecanoic acid	ND	0.025	0.0223	ug/L	89	(70-130)	30	10
LCS1	Perfluoroheptanoic acid		0.025	0.0228	ug/L	91	(70-130)		
LCS2	Perfluoroheptanoic acid		0.025	0.0241	ug/L	96	(70-130)	30	5.5
MBLK	Perfluoroheptanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroheptanoic acid		0.0025	0.00243	ug/L	97	(50-150)		
MS1_201502050751	Perfluoroheptanoic acid	ND	0.025	0.0250	ug/L	91	(70-130)		
MSD1_201502050751	Perfluoroheptanoic acid	ND	0.025	0.0257	ug/L	94	(70-130)	30	2.8
LCS1	Perfluorohexanesulfonic acid		0.024	0.0213	ug/L	90	(70-130)		
LCS2	Perfluorohexanesulfonic acid		0.024	0.0226	ug/L	96	(70-130)	30	5.9
MBLK	Perfluorohexanesulfonic acid			<0.00079	ug/L				
MRL_CHK	Perfluorohexanesulfonic acid		0.0024	0.00208	ug/L	88	(50-150)		
MS1_201502050751	Perfluorohexanesulfonic acid	ND	0.024	0.0216	ug/L	90	(70-130)		
MSD1_201502050751	Perfluorohexanesulfonic acid	ND	0.024	0.0232	ug/L	97	(70-130)	30	7.1
LCS1	Perfluorohexanoic acid		0.025	0.0229	ug/L	92	(70-130)		
LCS2	Perfluorohexanoic acid		0.025	0.0236	ug/L	95	(70-130)	30	3.0
MBLK	Perfluorohexanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorohexanoic acid		0.0025	0.00234	ug/L	94	(50-150)		
MS1_201502050751	Perfluorohexanoic acid	0.0040	0.025	0.0266	ug/L	90	(70-130)		
MSD1_201502050751	Perfluorohexanoic acid	0.0040	0.025	0.0274	ug/L	93	(70-130)	30	3.0
LCS1	Perfluorononanoic acid		0.025	0.0220	ug/L	88	(70-130)		
LCS2	Perfluorononanoic acid		0.025	0.0235	ug/L	94	(70-130)	30	6.6
MBLK	Perfluorononanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorononanoic acid		0.0025	0.00222	ug/L	89	(50-150)		
MS1_201502050751	Perfluorononanoic acid	0.0026	0.025	0.0235	ug/L	94	(70-130)		
MSD1_201502050751	Perfluorononanoic acid	0.0026	0.025	0.0252	ug/L	90	(70-130)	30	7.0
LCS1	Perfluorooctanesulfonic acid		0.024	0.0205	ug/L	86	(70-130)		
LCS2	Perfluorooctanesulfonic acid		0.024	0.0212	ug/L	88	(70-130)	30	3.4
MBLK	Perfluorooctanesulfonic acid			<0.0008	ug/L				
MRL_CHK	Perfluorooctanesulfonic acid		0.0024	0.00180	ug/L	75	(50-150)		
MS1_201502050751	Perfluorooctanesulfonic acid	ND	0.024	0.0192	ug/L	80	(70-130)		
MSD1_201502050751	Perfluorooctanesulfonic acid	ND	0.024	0.0206	ug/L	86	(70-130)	30	7.0
LCS1	Perfluorooctanoic acid		0.025	0.0229	ug/L	92	(70-130)		
LCS2	Perfluorooctanoic acid		0.025	0.0245	ug/L	98	(70-130)	30	6.8

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MBLK	Perfluorooctanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorooctanoic acid		0.0025	0.00266	ug/L	106	(50-150)		
MS1_201502050751	Perfluorooctanoic acid	0.0046	0.025	0.0275	ug/L	91	(70-130)		
MSD1_201502050751	Perfluorooctanoic acid	0.0046	0.025	0.0287	ug/L	96	(70-130)	30	4.3
LCS1	Perfluorotetradecanoic acid		0.025	0.0193	ug/L	77	(70-130)		
LCS2	Perfluorotetradecanoic acid		0.025	0.0205	ug/L	82	(70-130)	30	6.0
MBLK	Perfluorotetradecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotetradecanoic acid		0.0025	0.00198	ug/L	79	(50-150)		
MS1_201502050751	Perfluorotetradecanoic acid	ND	0.025	0.0187	ug/L	74	(70-130)		
MSD1_201502050751	Perfluorotetradecanoic acid	ND	0.025	0.0198	ug/L	79	(70-130)	30	5.7
LCS1	Perfluorotridecanoic acid		0.025	0.0190	ug/L	76	(70-130)		
LCS2	Perfluorotridecanoic acid		0.025	0.0210	ug/L	84	(70-130)	30	10
MBLK	Perfluorotridecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotridecanoic acid		0.0025	0.00201	ug/L	80	(50-150)		
MS1_201502050751	Perfluorotridecanoic acid	ND	0.025	0.0195	ug/L	78	(70-130)		
MSD1_201502050751	Perfluorotridecanoic acid	ND	0.025	0.0211	ug/L	84	(70-130)	30	7.9
LCS1	Perfluoroundecanoic acid		0.025	0.0196	ug/L	78	(70-130)		
LCS2	Perfluoroundecanoic acid		0.025	0.0204	ug/L	82	(70-130)	30	4.0
MBLK	Perfluoroundecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroundecanoic acid		0.0025	0.00203	ug/L	81	(50-150)		
MS1_201502050751	Perfluoroundecanoic acid	ND	0.025	0.0198	ug/L	79	(70-130)		
MSD1_201502050751	Perfluoroundecanoic acid	ND	0.025	0.0217	ug/L	87	(70-130)	30	9.2

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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