

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-21576-1
Client Project/Site: Fort McCoy PFAS FTBP1

For:
Hyde Environmental, Inc.
W175 N11163 Stonewood Drive
Suite 110
Germantown, Wisconsin 53022

Attn: (b) (6)

(b) (6)

Authorized for release by:
10/3/2016 2:51:15 PM

(b) (6)

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	8
Isotope Dilution Summary	21
QC Sample Results	22
QC Association Summary	24
Lab Chronicle	25
Certification Summary	28
Method Summary	29
Sample Summary	30
Chain of Custody	31
Receipt Checklists	33

Definitions/Glossary

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Qualifiers

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	Isotope Dilution analyte is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Job ID: 320-21576-1

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative 320-21576-1

Comments

No additional comments.

Receipt

The samples were received on 9/8/2016 9:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.0° C and 5.1° C.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

Method(s) 537 (Modified): The first level standard from the initial calibration curve is used to evaluate the tune criteria. The instrument mass windows are set at +/- 0.5amu; therefore, detection of the analyte serves as verification that the assigned mass is within +/- 0.5amu of the true value, which meets the DoD/DOE QSM tune criterion.

Method(s) 537 (Modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for several analytes in the following samples: OW-117 (320-21576-11). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method(s) 537 (Modified): The closing continuing calibration verification (CCV) standard associated with batch 320-129481 failed to meet acceptance limits for Perfluorooctanesulfonic acid (PFOS). The CCV was out high due to carryover from high concentrations of PFOS in the preceding samples. The opening CCV was in control and so reanalysis of the following samples was not performed: OW-141 (320-21576-7), P-308A (320-21576-8), OW-308 (320-21576-9), EQ. BLANK (320-21576-10) and (CCV 320-129481/63).

Method(s) 537 (Modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit for 13C4 PFBA: OW-141 (320-21576-7). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample(s). All detection limits are below the lower calibration.

Method(s) 537 (Modified): The injection times displayed in chrom/TALS do not match the injection times listed on A8 instrument printouts. The instrument printout listing the injection times can be found at the end of the run log section. P-133A (320-21576-1), OW-133B (320-21576-2), OW-133B (DUP) (320-21576-3), P-134A (320-21576-4), OW-134 (320-21576-5), OW-134 (320-21576-5[MS]), OW-134 (320-21576-5[MSD]), OW-137 (320-21576-6), OW-141 (320-21576-7), P-308A (320-21576-8), OW-308 (320-21576-9), EQ. BLANK (320-21576-10), OW-117 (320-21576-11), OW-136B (320-21576-12), OW-145 (320-21576-13), (CCV 320-129481/30), (CCV 320-129481/31), (CCV 320-129481/59), (CCV 320-129481/60), (CCV 320-129481/63), (CCV 320-129481/64), (CCV 320-129481/70), (CCV 320-129481/15), (CCV 320-129481/5), (LCS 320-126548/2-A), (MB 320-126548/1-A), (CCV 320-129688/19), (CCV 320-129688/20), (CCV 320-129688/6), (CCV 320-129688/7), (CCV 320-129688/4), (CCV 320-129688/5), (ICV 320-129364/12), (ICV 320-129364/22), (CCV 320-129691/16), (CCV 320-129691/17), (CCV 320-129691/26) and (CCV 320-129691/27)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: P-133A

Lab Sample ID: 320-21576-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	8.7	B	2.1	0.38	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	2.1	0.66	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.6		2.1	0.63	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	12		2.1	0.77	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	26		2.1	0.73	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.5		3.3	1.1	ng/L	1		537 (Modified)	Total/NA

Client Sample ID: OW-133B

Lab Sample ID: 320-21576-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.4	B	2.0	0.37	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.8	J	2.0	0.64	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.0		2.0	0.66	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.4	J	2.0	0.81	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	9.6		2.0	0.61	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.4	J	2.0	0.75	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	28		2.0	0.71	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	44		3.3	1.0	ng/L	1		537 (Modified)	Total/NA

Client Sample ID: OW-133B (DUP)

Lab Sample ID: 320-21576-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.0	J B	2.1	0.38	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	2.1	0.65	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.3	J	2.1	0.66	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.82	J	2.1	0.82	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.5		2.1	0.62	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.1	J	2.1	0.76	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	21		2.1	0.72	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	34		3.3	1.1	ng/L	1		537 (Modified)	Total/NA

Client Sample ID: P-134A

Lab Sample ID: 320-21576-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.53	J B	2.1	0.38	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	2.1	0.72	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.1	J	3.3	1.1	ng/L	1		537 (Modified)	Total/NA

Client Sample ID: OW-134

Lab Sample ID: 320-21576-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.9	B	2.0	0.37	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		2.0	0.64	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	2.0	0.65	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.2	J	2.0	0.80	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.9	J	2.0	0.61	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4		2.0	0.75	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	19		2.0	0.71	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	220		3.3	1.0	ng/L	1		537 (Modified)	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-137

Lab Sample ID: 320-21576-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	17	B	2.1	0.38	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	17		2.1	0.66	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.6		2.1	0.67	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	16		2.1	0.83	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	13		2.1	0.63	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.7		2.1	0.77	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	48		2.1	0.73	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	190		3.3	1.1	ng/L	1		537 (Modified)	Total/NA

Client Sample ID: OW-141

Lab Sample ID: 320-21576-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.6	B	2.1	0.39	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.1	J	2.1	0.67	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.85	J	2.1	0.84	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.2	J	2.1	0.78	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.7		2.1	0.74	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.1	J	3.4	1.1	ng/L	1		537 (Modified)	Total/NA

Client Sample ID: P-308A

Lab Sample ID: 320-21576-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	8.7	B	2.1	0.38	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.1		2.1	0.65	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.1	J	2.1	0.82	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.3		2.1	0.62	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.4		2.1	0.76	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	13		2.1	0.72	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	7.7		3.3	1.1	ng/L	1		537 (Modified)	Total/NA

Client Sample ID: OW-308

Lab Sample ID: 320-21576-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.3	B	2.1	0.39	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.4		2.1	0.67	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.8		2.1	0.69	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.2		2.1	0.85	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.0		2.1	0.64	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.7	J	2.1	0.78	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	16		2.1	0.74	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	160		3.4	1.1	ng/L	1		537 (Modified)	Total/NA

Client Sample ID: EQ. BLANK

Lab Sample ID: 320-21576-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	1.7	J	3.5	1.1	ng/L	1		537 (Modified)	Total/NA

Client Sample ID: OW-117

Lab Sample ID: 320-21576-11

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-117 (Continued)

Lab Sample ID: 320-21576-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	510		2.1	0.62	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	410	B	100	19	ng/L	50		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1300		100	33	ng/L	50		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	580		100	33	ng/L	50		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	1400		100	41	ng/L	50		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS) - DL	240		100	38	ng/L	50		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	2800		100	36	ng/L	50		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	23000		170	53	ng/L	50		537 (Modified)	Total/NA

Client Sample ID: OW-136B

Lab Sample ID: 320-21576-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	11	B	2.1	0.39	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	21		2.1	0.67	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	13		2.1	0.69	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	14		2.1	0.85	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	44		2.1	0.64	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	10		2.1	0.78	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	370		2.1	0.74	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	1400		170	55	ng/L	50		537 (Modified)	Total/NA

Client Sample ID: OW-145

Lab Sample ID: 320-21576-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.7	B	2.1	0.38	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.7		2.1	0.65	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.9	J	2.1	0.66	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.7	J	2.1	0.81	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	150		2.1	0.62	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.4	J	2.1	0.76	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	58		2.1	0.72	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	29		3.3	1.1	ng/L	1		537 (Modified)	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: P-133A

Date Collected: 09/06/16 13:03

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-1

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.7	B	2.1	0.38	ng/L		09/10/16 09:06	09/27/16 16:01	1
Perfluorohexanoic acid (PFHxA)	1.1	J	2.1	0.66	ng/L		09/10/16 09:06	09/27/16 16:01	1
Perfluoroheptanoic acid (PFHpA)	<0.67		2.1	0.67	ng/L		09/10/16 09:06	09/27/16 16:01	1
Perfluoropentanoic acid (PFPeA)	<0.83		2.1	0.83	ng/L		09/10/16 09:06	09/27/16 16:01	1
Perfluorooctanoic acid (PFOA)	2.6		2.1	0.63	ng/L		09/10/16 09:06	09/27/16 16:01	1
Perfluorobutanesulfonic acid (PFBS)	12		2.1	0.77	ng/L		09/10/16 09:06	09/27/16 16:01	1
Perfluorohexanesulfonic acid (PFHxS)	26		2.1	0.73	ng/L		09/10/16 09:06	09/27/16 16:01	1
Perfluorooctanesulfonic acid (PFOS)	5.5		3.3	1.1	ng/L		09/10/16 09:06	09/27/16 16:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	71		25 - 150				09/10/16 09:06	09/27/16 16:01	1
13C4 PFOA	78		25 - 150				09/10/16 09:06	09/27/16 16:01	1
18O2 PFHxS	102		25 - 150				09/10/16 09:06	09/27/16 16:01	1
13C4 PFOS	106		25 - 150				09/10/16 09:06	09/27/16 16:01	1
13C4-PFHxA	75		25 - 150				09/10/16 09:06	09/27/16 16:01	1
13C5-PFPeA	59		25 - 150				09/10/16 09:06	09/27/16 16:01	1
13C4 PFBA	31		25 - 150				09/10/16 09:06	09/27/16 16:01	1

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-133B

Date Collected: 09/06/16 13:30

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-2

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.4	B	2.0	0.37	ng/L		09/10/16 09:06	09/27/16 16:09	1
Perfluorohexanoic acid (PFHxA)	1.8	J	2.0	0.64	ng/L		09/10/16 09:06	09/27/16 16:09	1
Perfluoroheptanoic acid (PFHpA)	2.0		2.0	0.66	ng/L		09/10/16 09:06	09/27/16 16:09	1
Perfluoropentanoic acid (PFPeA)	1.4	J	2.0	0.81	ng/L		09/10/16 09:06	09/27/16 16:09	1
Perfluorooctanoic acid (PFOA)	9.6		2.0	0.61	ng/L		09/10/16 09:06	09/27/16 16:09	1
Perfluorobutanesulfonic acid (PFBS)	1.4	J	2.0	0.75	ng/L		09/10/16 09:06	09/27/16 16:09	1
Perfluorohexanesulfonic acid (PFHxS)	28		2.0	0.71	ng/L		09/10/16 09:06	09/27/16 16:09	1
Perfluorooctanesulfonic acid (PFOS)	44		3.3	1.0	ng/L		09/10/16 09:06	09/27/16 16:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	77		25 - 150				09/10/16 09:06	09/27/16 16:09	1
13C4 PFOA	78		25 - 150				09/10/16 09:06	09/27/16 16:09	1
18O2 PFHxS	106		25 - 150				09/10/16 09:06	09/27/16 16:09	1
13C4 PFOS	111		25 - 150				09/10/16 09:06	09/27/16 16:09	1
13C4-PFHxA	79		25 - 150				09/10/16 09:06	09/27/16 16:09	1
13C5-PFPeA	67		25 - 150				09/10/16 09:06	09/27/16 16:09	1
13C4 PFBA	36		25 - 150				09/10/16 09:06	09/27/16 16:09	1

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-133B (DUP)

Lab Sample ID: 320-21576-3

Date Collected: 09/06/16 13:30

Matrix: Water

Date Received: 09/08/16 09:55

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.0	J B	2.1	0.38	ng/L		09/10/16 09:06	09/27/16 16:16	1
Perfluorohexanoic acid (PFHxA)	1.1	J	2.1	0.65	ng/L		09/10/16 09:06	09/27/16 16:16	1
Perfluoroheptanoic acid (PFHpA)	1.3	J	2.1	0.66	ng/L		09/10/16 09:06	09/27/16 16:16	1
Perfluoropentanoic acid (PFPeA)	0.82	J	2.1	0.82	ng/L		09/10/16 09:06	09/27/16 16:16	1
Perfluorooctanoic acid (PFOA)	5.5		2.1	0.62	ng/L		09/10/16 09:06	09/27/16 16:16	1
Perfluorobutanesulfonic acid (PFBS)	1.1	J	2.1	0.76	ng/L		09/10/16 09:06	09/27/16 16:16	1
Perfluorohexanesulfonic acid (PFHxS)	21		2.1	0.72	ng/L		09/10/16 09:06	09/27/16 16:16	1
Perfluorooctanesulfonic acid (PFOS)	34		3.3	1.1	ng/L		09/10/16 09:06	09/27/16 16:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	79		25 - 150				09/10/16 09:06	09/27/16 16:16	1
13C4 PFOA	80		25 - 150				09/10/16 09:06	09/27/16 16:16	1
18O2 PFHxS	100		25 - 150				09/10/16 09:06	09/27/16 16:16	1
13C4 PFOS	106		25 - 150				09/10/16 09:06	09/27/16 16:16	1
13C4-PFHxA	80		25 - 150				09/10/16 09:06	09/27/16 16:16	1
13C5-PFPeA	69		25 - 150				09/10/16 09:06	09/27/16 16:16	1
13C4 PFBA	36		25 - 150				09/10/16 09:06	09/27/16 16:16	1

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: P-134A

Date Collected: 09/06/16 15:00

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-4

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.53	J B	2.1	0.38	ng/L		09/10/16 09:06	09/27/16 16:24	1
Perfluorohexanoic acid (PFHxA)	<0.65		2.1	0.65	ng/L		09/10/16 09:06	09/27/16 16:24	1
Perfluoroheptanoic acid (PFHpA)	<0.66		2.1	0.66	ng/L		09/10/16 09:06	09/27/16 16:24	1
Perfluoropentanoic acid (PFPeA)	<0.82		2.1	0.82	ng/L		09/10/16 09:06	09/27/16 16:24	1
Perfluorooctanoic acid (PFOA)	<0.62		2.1	0.62	ng/L		09/10/16 09:06	09/27/16 16:24	1
Perfluorobutanesulfonic acid (PFBS)	<0.76		2.1	0.76	ng/L		09/10/16 09:06	09/27/16 16:24	1
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	2.1	0.72	ng/L		09/10/16 09:06	09/27/16 16:24	1
Perfluorooctanesulfonic acid (PFOS)	1.1	J	3.3	1.1	ng/L		09/10/16 09:06	09/27/16 16:24	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	75		25 - 150				09/10/16 09:06	09/27/16 16:24	1
13C4 PFOA	73		25 - 150				09/10/16 09:06	09/27/16 16:24	1
18O2 PFHxS	101		25 - 150				09/10/16 09:06	09/27/16 16:24	1
13C4 PFOS	103		25 - 150				09/10/16 09:06	09/27/16 16:24	1
13C4-PFHpA	77		25 - 150				09/10/16 09:06	09/27/16 16:24	1
13C5-PFPeA	61		25 - 150				09/10/16 09:06	09/27/16 16:24	1
13C4 PFBA	30		25 - 150				09/10/16 09:06	09/27/16 16:24	1

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-134

Date Collected: 09/06/16 14:00

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-5

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.9	B	2.0	0.37	ng/L		09/10/16 09:06	09/27/16 16:31	1
Perfluorohexanoic acid (PFHxA)	2.0		2.0	0.64	ng/L		09/10/16 09:06	09/27/16 16:31	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	2.0	0.65	ng/L		09/10/16 09:06	09/27/16 16:31	1
Perfluoropentanoic acid (PFPeA)	1.2	J	2.0	0.80	ng/L		09/10/16 09:06	09/27/16 16:31	1
Perfluorooctanoic acid (PFOA)	1.9	J	2.0	0.61	ng/L		09/10/16 09:06	09/27/16 16:31	1
Perfluorobutanesulfonic acid (PFBS)	2.4		2.0	0.75	ng/L		09/10/16 09:06	09/27/16 16:31	1
Perfluorohexanesulfonic acid (PFHxS)	19		2.0	0.71	ng/L		09/10/16 09:06	09/27/16 16:31	1
Perfluorooctanesulfonic acid (PFOS)	220		3.3	1.0	ng/L		09/10/16 09:06	09/27/16 16:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	80		25 - 150				09/10/16 09:06	09/27/16 16:31	1
13C4 PFOA	79		25 - 150				09/10/16 09:06	09/27/16 16:31	1
18O2 PFHxS	100		25 - 150				09/10/16 09:06	09/27/16 16:31	1
13C4 PFOS	100		25 - 150				09/10/16 09:06	09/27/16 16:31	1
13C4-PFHxA	80		25 - 150				09/10/16 09:06	09/27/16 16:31	1
13C5-PFPeA	68		25 - 150				09/10/16 09:06	09/27/16 16:31	1
13C4 PFBA	35		25 - 150				09/10/16 09:06	09/27/16 16:31	1

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-137

Date Collected: 09/06/16 10:21

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-6

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	17	B	2.1	0.38	ng/L		09/10/16 09:06	09/27/16 16:54	1
Perfluorohexanoic acid (PFHxA)	17		2.1	0.66	ng/L		09/10/16 09:06	09/27/16 16:54	1
Perfluoroheptanoic acid (PFHpA)	8.6		2.1	0.67	ng/L		09/10/16 09:06	09/27/16 16:54	1
Perfluoropentanoic acid (PFPeA)	16		2.1	0.83	ng/L		09/10/16 09:06	09/27/16 16:54	1
Perfluorooctanoic acid (PFOA)	13		2.1	0.63	ng/L		09/10/16 09:06	09/27/16 16:54	1
Perfluorobutanesulfonic acid (PFBS)	2.7		2.1	0.77	ng/L		09/10/16 09:06	09/27/16 16:54	1
Perfluorohexanesulfonic acid (PFHxS)	48		2.1	0.73	ng/L		09/10/16 09:06	09/27/16 16:54	1
Perfluorooctanesulfonic acid (PFOS)	190		3.3	1.1	ng/L		09/10/16 09:06	09/27/16 16:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	74		25 - 150				09/10/16 09:06	09/27/16 16:54	1
13C4 PFOA	82		25 - 150				09/10/16 09:06	09/27/16 16:54	1
18O2 PFHxS	95		25 - 150				09/10/16 09:06	09/27/16 16:54	1
13C4 PFOS	109		25 - 150				09/10/16 09:06	09/27/16 16:54	1
13C4-PFHxA	76		25 - 150				09/10/16 09:06	09/27/16 16:54	1
13C5-PFPeA	58		25 - 150				09/10/16 09:06	09/27/16 16:54	1
13C4 PFBA	27		25 - 150				09/10/16 09:06	09/27/16 16:54	1

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-141

Date Collected: 09/06/16 11:05

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-7

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.6	B	2.1	0.39	ng/L		09/10/16 09:06	09/27/16 17:31	1
Perfluorohexanoic acid (PFHxA)	1.1	J	2.1	0.67	ng/L		09/10/16 09:06	09/27/16 17:31	1
Perfluoroheptanoic acid (PFHpA)	<0.68		2.1	0.68	ng/L		09/10/16 09:06	09/27/16 17:31	1
Perfluoropentanoic acid (PFPeA)	0.85	J	2.1	0.84	ng/L		09/10/16 09:06	09/27/16 17:31	1
Perfluorooctanoic acid (PFOA)	<0.64		2.1	0.64	ng/L		09/10/16 09:06	09/27/16 17:31	1
Perfluorobutanesulfonic acid (PFBS)	1.2	J	2.1	0.78	ng/L		09/10/16 09:06	09/27/16 17:31	1
Perfluorohexanesulfonic acid (PFHxS)	3.7		2.1	0.74	ng/L		09/10/16 09:06	09/27/16 17:31	1
Perfluorooctanesulfonic acid (PFOS)	3.1	J	3.4	1.1	ng/L		09/10/16 09:06	09/27/16 17:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	70		25 - 150				09/10/16 09:06	09/27/16 17:31	1
13C4 PFOA	85		25 - 150				09/10/16 09:06	09/27/16 17:31	1
18O2 PFHxS	90		25 - 150				09/10/16 09:06	09/27/16 17:31	1
13C4 PFOS	100		25 - 150				09/10/16 09:06	09/27/16 17:31	1
13C4-PFHxA	78		25 - 150				09/10/16 09:06	09/27/16 17:31	1
13C5-PFPeA	52		25 - 150				09/10/16 09:06	09/27/16 17:31	1
13C4 PFBA	23	*	25 - 150				09/10/16 09:06	09/27/16 17:31	1

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: P-308A

Date Collected: 09/06/16 11:45

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-8

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	8.7	B	2.1	0.38	ng/L		09/10/16 09:06	09/27/16 17:39	1
Perfluorohexanoic acid (PFHxA)	2.1		2.1	0.65	ng/L		09/10/16 09:06	09/27/16 17:39	1
Perfluoroheptanoic acid (PFHpA)	<0.67		2.1	0.67	ng/L		09/10/16 09:06	09/27/16 17:39	1
Perfluoropentanoic acid (PFPeA)	1.1	J	2.1	0.82	ng/L		09/10/16 09:06	09/27/16 17:39	1
Perfluorooctanoic acid (PFOA)	6.3		2.1	0.62	ng/L		09/10/16 09:06	09/27/16 17:39	1
Perfluorobutanesulfonic acid (PFBS)	3.4		2.1	0.76	ng/L		09/10/16 09:06	09/27/16 17:39	1
Perfluorohexanesulfonic acid (PFHxS)	13		2.1	0.72	ng/L		09/10/16 09:06	09/27/16 17:39	1
Perfluorooctanesulfonic acid (PFOS)	7.7		3.3	1.1	ng/L		09/10/16 09:06	09/27/16 17:39	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	82		25 - 150				09/10/16 09:06	09/27/16 17:39	1
13C4 PFOA	78		25 - 150				09/10/16 09:06	09/27/16 17:39	1
18O2 PFHxS	105		25 - 150				09/10/16 09:06	09/27/16 17:39	1
13C4 PFOS	110		25 - 150				09/10/16 09:06	09/27/16 17:39	1
13C4-PFHxA	79		25 - 150				09/10/16 09:06	09/27/16 17:39	1
13C5-PFPeA	66		25 - 150				09/10/16 09:06	09/27/16 17:39	1
13C4 PFBA	30		25 - 150				09/10/16 09:06	09/27/16 17:39	1

TestAmerica Sacramento

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-308

Date Collected: 09/06/16 12:17

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-9

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.3	B	2.1	0.39	ng/L		09/10/16 09:06	09/27/16 17:46	1
Perfluorohexanoic acid (PFHxA)	4.4		2.1	0.67	ng/L		09/10/16 09:06	09/27/16 17:46	1
Perfluoroheptanoic acid (PFHpA)	2.8		2.1	0.69	ng/L		09/10/16 09:06	09/27/16 17:46	1
Perfluoropentanoic acid (PFPeA)	4.2		2.1	0.85	ng/L		09/10/16 09:06	09/27/16 17:46	1
Perfluorooctanoic acid (PFOA)	4.0		2.1	0.64	ng/L		09/10/16 09:06	09/27/16 17:46	1
Perfluorobutanesulfonic acid (PFBS)	1.7	J	2.1	0.78	ng/L		09/10/16 09:06	09/27/16 17:46	1
Perfluorohexanesulfonic acid (PFHxS)	16		2.1	0.74	ng/L		09/10/16 09:06	09/27/16 17:46	1
Perfluorooctanesulfonic acid (PFOS)	160		3.4	1.1	ng/L		09/10/16 09:06	09/27/16 17:46	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	76		25 - 150				09/10/16 09:06	09/27/16 17:46	1
13C4 PFOA	87		25 - 150				09/10/16 09:06	09/27/16 17:46	1
18O2 PFHxS	90		25 - 150				09/10/16 09:06	09/27/16 17:46	1
13C4 PFOS	96		25 - 150				09/10/16 09:06	09/27/16 17:46	1
13C4-PFHxA	80		25 - 150				09/10/16 09:06	09/27/16 17:46	1
13C5-PFPeA	61		25 - 150				09/10/16 09:06	09/27/16 17:46	1
13C4 PFBA	31		25 - 150				09/10/16 09:06	09/27/16 17:46	1

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: EQ. BLANK

Lab Sample ID: 320-21576-10

Date Collected: 09/06/16 11:30

Matrix: Water

Date Received: 09/08/16 09:55

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	<0.40		2.2	0.40	ng/L		09/10/16 09:06	09/27/16 17:54	1
Perfluorohexanoic acid (PFHxA)	<0.69		2.2	0.69	ng/L		09/10/16 09:06	09/27/16 17:54	1
Perfluoroheptanoic acid (PFHpA)	<0.70		2.2	0.70	ng/L		09/10/16 09:06	09/27/16 17:54	1
Perfluoropentanoic acid (PFPeA)	<0.86		2.2	0.86	ng/L		09/10/16 09:06	09/27/16 17:54	1
Perfluorooctanoic acid (PFOA)	<0.65		2.2	0.65	ng/L		09/10/16 09:06	09/27/16 17:54	1
Perfluorobutanesulfonic acid (PFBS)	<0.80		2.2	0.80	ng/L		09/10/16 09:06	09/27/16 17:54	1
Perfluorohexanesulfonic acid (PFHxS)	<0.76		2.2	0.76	ng/L		09/10/16 09:06	09/27/16 17:54	1
Perfluorooctanesulfonic acid (PFOS)	1.7	J	3.5	1.1	ng/L		09/10/16 09:06	09/27/16 17:54	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	104		25 - 150	09/10/16 09:06	09/27/16 17:54	1
13C4 PFOA	118		25 - 150	09/10/16 09:06	09/27/16 17:54	1
18O2 PFHxS	104		25 - 150	09/10/16 09:06	09/27/16 17:54	1
13C4 PFOS	106		25 - 150	09/10/16 09:06	09/27/16 17:54	1
13C4-PFHpA	113		25 - 150	09/10/16 09:06	09/27/16 17:54	1
13C5-PFPeA	112		25 - 150	09/10/16 09:06	09/27/16 17:54	1
13C4 PFBA	111		25 - 150	09/10/16 09:06	09/27/16 17:54	1

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-117

Date Collected: 09/07/16 10:55

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-11

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	510		2.1	0.62	ng/L		09/10/16 09:06	09/27/16 18:01	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>13C4 PFOA</i>	<i>85</i>		<i>25 - 150</i>				<i>09/10/16 09:06</i>	<i>09/27/16 18:01</i>	<i>1</i>

Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	410	B	100	19	ng/L		09/10/16 09:06	09/28/16 13:34	50
Perfluorohexanoic acid (PFHxA)	1300		100	33	ng/L		09/10/16 09:06	09/28/16 13:34	50
Perfluoroheptanoic acid (PFHpA)	580		100	33	ng/L		09/10/16 09:06	09/28/16 13:34	50
Perfluoropentanoic acid (PFPeA)	1400		100	41	ng/L		09/10/16 09:06	09/28/16 13:34	50
Perfluorobutanesulfonic acid (PFBS)	240		100	38	ng/L		09/10/16 09:06	09/28/16 13:34	50
Perfluorohexanesulfonic acid (PFHxS)	2800		100	36	ng/L		09/10/16 09:06	09/28/16 13:34	50
Perfluorooctanesulfonic acid (PFOS)	23000		170	53	ng/L		09/10/16 09:06	09/28/16 13:34	50
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>13C2 PFHxA</i>	<i>156</i>	<i>*</i>	<i>25 - 150</i>				<i>09/10/16 09:06</i>	<i>09/28/16 13:34</i>	<i>50</i>
<i>18O2 PFHxS</i>	<i>143</i>		<i>25 - 150</i>				<i>09/10/16 09:06</i>	<i>09/28/16 13:34</i>	<i>50</i>
<i>13C4 PFOS</i>	<i>129</i>		<i>25 - 150</i>				<i>09/10/16 09:06</i>	<i>09/28/16 13:34</i>	<i>50</i>
<i>13C4-PFHpA</i>	<i>131</i>		<i>25 - 150</i>				<i>09/10/16 09:06</i>	<i>09/28/16 13:34</i>	<i>50</i>
<i>13C5-PFPeA</i>	<i>156</i>	<i>*</i>	<i>25 - 150</i>				<i>09/10/16 09:06</i>	<i>09/28/16 13:34</i>	<i>50</i>
<i>13C4 PFBA</i>	<i>128</i>		<i>25 - 150</i>				<i>09/10/16 09:06</i>	<i>09/28/16 13:34</i>	<i>50</i>

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-136B

Lab Sample ID: 320-21576-12

Date Collected: 09/07/16 09:05

Matrix: Water

Date Received: 09/08/16 09:55

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	11	B	2.1	0.39	ng/L		09/10/16 09:06	09/27/16 18:09	1
Perfluorohexanoic acid (PFHxA)	21		2.1	0.67	ng/L		09/10/16 09:06	09/27/16 18:09	1
Perfluoroheptanoic acid (PFHpA)	13		2.1	0.69	ng/L		09/10/16 09:06	09/27/16 18:09	1
Perfluoropentanoic acid (PFPeA)	14		2.1	0.85	ng/L		09/10/16 09:06	09/27/16 18:09	1
Perfluorooctanoic acid (PFOA)	44		2.1	0.64	ng/L		09/10/16 09:06	09/27/16 18:09	1
Perfluorobutanesulfonic acid (PFBS)	10		2.1	0.78	ng/L		09/10/16 09:06	09/27/16 18:09	1
Perfluorohexanesulfonic acid (PFHxS)	370		2.1	0.74	ng/L		09/10/16 09:06	09/27/16 18:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	64		25 - 150				09/10/16 09:06	09/27/16 18:09	1
13C4 PFOA	60		25 - 150				09/10/16 09:06	09/27/16 18:09	1
18O2 PFHxS	74		25 - 150				09/10/16 09:06	09/27/16 18:09	1
13C4-PFHpA	59		25 - 150				09/10/16 09:06	09/27/16 18:09	1
13C5-PFPeA	57		25 - 150				09/10/16 09:06	09/27/16 18:09	1
13C4 PFBA	29		25 - 150				09/10/16 09:06	09/27/16 18:09	1

Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1400		170	55	ng/L		09/10/16 09:06	09/28/16 13:41	50
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFOS	110		25 - 150				09/10/16 09:06	09/28/16 13:41	50

Client Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-145

Date Collected: 09/07/16 09:55

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-13

Matrix: Water

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.7	B	2.1	0.38	ng/L		09/10/16 09:06	09/28/16 13:49	1
Perfluorohexanoic acid (PFHxA)	3.7		2.1	0.65	ng/L		09/10/16 09:06	09/28/16 13:49	1
Perfluoroheptanoic acid (PFHpA)	1.9	J	2.1	0.66	ng/L		09/10/16 09:06	09/28/16 13:49	1
Perfluoropentanoic acid (PFPeA)	1.7	J	2.1	0.81	ng/L		09/10/16 09:06	09/28/16 13:49	1
Perfluorooctanoic acid (PFOA)	150		2.1	0.62	ng/L		09/10/16 09:06	09/28/16 13:49	1
Perfluorobutanesulfonic acid (PFBS)	1.4	J	2.1	0.76	ng/L		09/10/16 09:06	09/28/16 13:49	1
Perfluorohexanesulfonic acid (PFHxS)	58		2.1	0.72	ng/L		09/10/16 09:06	09/28/16 13:49	1
Perfluorooctanesulfonic acid (PFOS)	29		3.3	1.1	ng/L		09/10/16 09:06	09/28/16 13:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C2 PFHxA	101		25 - 150				09/10/16 09:06	09/28/16 13:49	1
13C4 PFOA	82		25 - 150				09/10/16 09:06	09/28/16 13:49	1
18O2 PFHxS	107		25 - 150				09/10/16 09:06	09/28/16 13:49	1
13C4 PFOS	115		25 - 150				09/10/16 09:06	09/28/16 13:49	1
13C4-PFHxA	91		25 - 150				09/10/16 09:06	09/28/16 13:49	1
13C5-PFPeA	91		25 - 150				09/10/16 09:06	09/28/16 13:49	1
13C4 PFBA	47		25 - 150				09/10/16 09:06	09/28/16 13:49	1

Isotope Dilution Summary

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)						
		¹³ C2 PFHx (25-150)	¹³ C4 PFO (25-150)	¹⁸ O2 PFHx (25-150)	¹³ C4 PFO (25-150)	¹³ C4-PFHp (25-150)	¹³ C5-PFPe (25-150)	¹³ C4 PFBA (25-150)
320-21576-1	P-133A	71	78	102	106	75	59	31
320-21576-2	OW-133B	77	78	106	111	79	67	36
320-21576-3	OW-133B (DUP)	79	80	100	106	80	69	36
320-21576-4	P-134A	75	73	101	103	77	61	30
320-21576-5	OW-134	80	79	100	100	80	68	35
320-21576-5 MS	OW-134	73	69	99	98	72	63	35
320-21576-5 MSD	OW-134	80	78	100	98	81	68	36
320-21576-6	OW-137	74	82	95	109	76	58	27
320-21576-7	OW-141	70	85	90	100	78	52	23 *
320-21576-8	P-308A	82	78	105	110	79	66	30
320-21576-9	OW-308	76	87	90	96	80	61	31
320-21576-10	EQ. BLANK	104	118	104	106	113	112	111
320-21576-11	OW-117		85					
320-21576-11 - DL	OW-117	156 *		143	129	131	156 *	128
320-21576-12	OW-136B	64	60	74		59	57	29
320-21576-12 - DL	OW-136B				110			
320-21576-13	OW-145	101	82	107	115	91	91	47
LCS 320-126548/2-A	Lab Control Sample	99	105	102	102	105	105	103
MB 320-126548/1-A	Method Blank	105	114	108	107	111	113	109

Surrogate Legend

- ¹³C2 PFHxA = ¹³C2 PFHxA
- ¹³C4 PFOA = ¹³C4 PFOA
- ¹⁸O2 PFHxS = ¹⁸O2 PFHxS
- ¹³C4 PFOS = ¹³C4 PFOS
- ¹³C4-PFHpA = ¹³C4-PFHpA
- ¹³C5-PFPeA = ¹³C5-PFPeA
- ¹³C4 PFBA = ¹³C4 PFBA

QC Sample Results

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Method: 537 (Modified) - Perfluorinated Hydrocarbons

Lab Sample ID: MB 320-126548/1-A
Matrix: Water
Analysis Batch: 129481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 126548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.667	J	2.5	0.46	ng/L	-	09/10/16 09:06	09/27/16 15:46	1
Perfluorohexanoic acid (PFHxA)	<0.79		2.5	0.79	ng/L		09/10/16 09:06	09/27/16 15:46	1
Perfluoroheptanoic acid (PFHpA)	<0.80		2.5	0.80	ng/L		09/10/16 09:06	09/27/16 15:46	1
Perfluoropentanoic acid (PFPeA)	<0.99		2.5	0.99	ng/L		09/10/16 09:06	09/27/16 15:46	1
Perfluorooctanoic acid (PFOA)	<0.75		2.5	0.75	ng/L		09/10/16 09:06	09/27/16 15:46	1
Perfluorobutanesulfonic acid (PFBS)	<0.92		2.5	0.92	ng/L		09/10/16 09:06	09/27/16 15:46	1
Perfluorohexanesulfonic acid (PFHxS)	<0.87		2.5	0.87	ng/L		09/10/16 09:06	09/27/16 15:46	1
Perfluorooctanesulfonic acid (PFOS)	<1.3		4.0	1.3	ng/L		09/10/16 09:06	09/27/16 15:46	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	105		25 - 150	09/10/16 09:06	09/27/16 15:46	1
13C4 PFOA	114		25 - 150	09/10/16 09:06	09/27/16 15:46	1
18O2 PFHxS	108		25 - 150	09/10/16 09:06	09/27/16 15:46	1
13C4 PFOS	107		25 - 150	09/10/16 09:06	09/27/16 15:46	1
13C4-PFHpA	111		25 - 150	09/10/16 09:06	09/27/16 15:46	1
13C5-PFPeA	113		25 - 150	09/10/16 09:06	09/27/16 15:46	1
13C4 PFBA	109		25 - 150	09/10/16 09:06	09/27/16 15:46	1

Lab Sample ID: LCS 320-126548/2-A
Matrix: Water
Analysis Batch: 129481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 126548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	39.4		ng/L	-	98	60 - 140
Perfluorohexanoic acid (PFHxA)	40.0	38.7		ng/L		97	60 - 140
Perfluoroheptanoic acid (PFHpA)	40.0	38.8		ng/L		97	60 - 140
Perfluoropentanoic acid (PFPeA)	40.0	35.8		ng/L		89	60 - 140
Perfluorooctanoic acid (PFOA)	40.0	42.5		ng/L		106	60 - 140
Perfluorobutanesulfonic acid (PFBS)	35.4	37.4		ng/L		106	50 - 150
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.8		ng/L		96	60 - 140
Perfluorooctanesulfonic acid (PFOS)	37.1	32.4		ng/L		87	60 - 140

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C2 PFHxA	99		25 - 150
13C4 PFOA	105		25 - 150
18O2 PFHxS	102		25 - 150
13C4 PFOS	102		25 - 150
13C4-PFHpA	105		25 - 150
13C5-PFPeA	105		25 - 150
13C4 PFBA	103		25 - 150

QC Association Summary

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

LCMS

Prep Batch: 126548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-21576-1	P-133A	Total/NA	Water	3535	
320-21576-2	OW-133B	Total/NA	Water	3535	
320-21576-3	OW-133B (DUP)	Total/NA	Water	3535	
320-21576-4	P-134A	Total/NA	Water	3535	
320-21576-5	OW-134	Total/NA	Water	3535	
320-21576-6	OW-137	Total/NA	Water	3535	
320-21576-7	OW-141	Total/NA	Water	3535	
320-21576-8	P-308A	Total/NA	Water	3535	
320-21576-9	OW-308	Total/NA	Water	3535	
320-21576-10	EQ. BLANK	Total/NA	Water	3535	
320-21576-11 - DL	OW-117	Total/NA	Water	3535	
320-21576-11	OW-117	Total/NA	Water	3535	
320-21576-12	OW-136B	Total/NA	Water	3535	
320-21576-12 - DL	OW-136B	Total/NA	Water	3535	
320-21576-13	OW-145	Total/NA	Water	3535	
MB 320-126548/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-126548/2-A	Lab Control Sample	Total/NA	Water	3535	
320-21576-5 MS	OW-134	Total/NA	Water	3535	
320-21576-5 MSD	OW-134	Total/NA	Water	3535	

Analysis Batch: 129481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-21576-1	P-133A	Total/NA	Water	537 (Modified)	126548
320-21576-2	OW-133B	Total/NA	Water	537 (Modified)	126548
320-21576-3	OW-133B (DUP)	Total/NA	Water	537 (Modified)	126548
320-21576-4	P-134A	Total/NA	Water	537 (Modified)	126548
320-21576-5	OW-134	Total/NA	Water	537 (Modified)	126548
320-21576-6	OW-137	Total/NA	Water	537 (Modified)	126548
320-21576-7	OW-141	Total/NA	Water	537 (Modified)	126548
320-21576-8	P-308A	Total/NA	Water	537 (Modified)	126548
320-21576-9	OW-308	Total/NA	Water	537 (Modified)	126548
320-21576-10	EQ. BLANK	Total/NA	Water	537 (Modified)	126548
320-21576-11	OW-117	Total/NA	Water	537 (Modified)	126548
320-21576-12	OW-136B	Total/NA	Water	537 (Modified)	126548
MB 320-126548/1-A	Method Blank	Total/NA	Water	537 (Modified)	126548
LCS 320-126548/2-A	Lab Control Sample	Total/NA	Water	537 (Modified)	126548
320-21576-5 MS	OW-134	Total/NA	Water	537 (Modified)	126548
320-21576-5 MSD	OW-134	Total/NA	Water	537 (Modified)	126548

Analysis Batch: 129688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-21576-11 - DL	OW-117	Total/NA	Water	537 (Modified)	126548
320-21576-12 - DL	OW-136B	Total/NA	Water	537 (Modified)	126548
320-21576-13	OW-145	Total/NA	Water	537 (Modified)	126548

TestAmerica Sacramento

Lab Chronicle

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: P-133A

Date Collected: 09/06/16 13:03

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			299 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 16:01	(b)	TAL SAC

Client Sample ID: OW-133B

Date Collected: 09/06/16 13:30

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			305.4 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 16:09	(b)	TAL SAC

Client Sample ID: OW-133B (DUP)

Date Collected: 09/06/16 13:30

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			302.5 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 16:16	(b)	TAL SAC

Client Sample ID: P-134A

Date Collected: 09/06/16 15:00

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			303 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 16:24	(b)	TAL SAC

Client Sample ID: OW-134

Date Collected: 09/06/16 14:00

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			307.2 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 16:31	(b)	TAL SAC

Client Sample ID: OW-137

Date Collected: 09/06/16 10:21

Date Received: 09/08/16 09:55

Lab Sample ID: 320-21576-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			298.7 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 16:54	(b)	TAL SAC

TestAmerica Sacramento

Lab Chronicle

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-141

Lab Sample ID: 320-21576-7

Date Collected: 09/06/16 11:05

Matrix: Water

Date Received: 09/08/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			292.9 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 17:31	(b)	TAL SAC

Client Sample ID: P-308A

Lab Sample ID: 320-21576-8

Date Collected: 09/06/16 11:45

Matrix: Water

Date Received: 09/08/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			300.3 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 17:39	(b)	TAL SAC

Client Sample ID: OW-308

Lab Sample ID: 320-21576-9

Date Collected: 09/06/16 12:17

Matrix: Water

Date Received: 09/08/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			292.4 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 17:46	(b)	TAL SAC

Client Sample ID: EQ. BLANK

Lab Sample ID: 320-21576-10

Date Collected: 09/06/16 11:30

Matrix: Water

Date Received: 09/08/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			286.4 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 17:54	(b)	TAL SAC

Client Sample ID: OW-117

Lab Sample ID: 320-21576-11

Date Collected: 09/07/16 10:55

Matrix: Water

Date Received: 09/08/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			300.7 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 18:01	(b)	TAL SAC
Total/NA	Prep	3535	DL		300.7 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)	DL	50			129688	09/28/16 13:34	(b)	TAL SAC

Client Sample ID: OW-136B

Lab Sample ID: 320-21576-12

Date Collected: 09/07/16 09:05

Matrix: Water

Date Received: 09/08/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			292.4 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC

TestAmerica Sacramento

Lab Chronicle

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Client Sample ID: OW-136B

Lab Sample ID: 320-21576-12

Date Collected: 09/07/16 09:05

Matrix: Water

Date Received: 09/08/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 18:09	(b)	TAL SAC
Total/NA	Prep	3535	DL		292.4 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)	DL	50			129688	09/28/16 13:41	(b)	TAL SAC

Client Sample ID: OW-145

Lab Sample ID: 320-21576-13

Date Collected: 09/07/16 09:55

Matrix: Water

Date Received: 09/08/16 09:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			303.8 mL	0.5 mL	126548	09/10/16 09:06	(b)	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129688	09/28/16 13:49	(b)	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	01-31-17
Oregon	NELAP	10	4040	01-29-17

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Method Summary

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Method	Method Description	Protocol	Laboratory
537 (Modified)	Perfluorinated Hydrocarbons	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15


Sample Summary

Client: Hyde Environmental, Inc.
Project/Site: Fort McCoy PFAS FTBP1

TestAmerica Job ID: 320-21576-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-21576-1	P-133A	Water	09/06/16 13:03	09/08/16 09:55
320-21576-2	OW-133B	Water	09/06/16 13:30	09/08/16 09:55
320-21576-3	OW-133B (DUP)	Water	09/06/16 13:30	09/08/16 09:55
320-21576-4	P-134A	Water	09/06/16 15:00	09/08/16 09:55
320-21576-5	OW-134	Water	09/06/16 14:00	09/08/16 09:55
320-21576-6	OW-137	Water	09/06/16 10:21	09/08/16 09:55
320-21576-7	OW-141	Water	09/06/16 11:05	09/08/16 09:55
320-21576-8	P-308A	Water	09/06/16 11:45	09/08/16 09:55
320-21576-9	OW-308	Water	09/06/16 12:17	09/08/16 09:55
320-21576-10	EQ. BLANK	Water	09/06/16 11:30	09/08/16 09:55
320-21576-11	OW-117	Water	09/07/16 10:55	09/08/16 09:55
320-21576-12	OW-136B	Water	09/07/16 09:05	09/08/16 09:55
320-21576-13	OW-145	Water	09/07/16 09:55	09/08/16 09:55

Chain of Custody Record

Client Information Client Contact: (b) (6) Phone: (b) (6) E-Mail: (b) (6)		Carrier Tracking No(s): COC No: 320-12373-2794.1 Page: Page 1 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO #: (b) (6) Purchase Order Requested WO #:		Analysis Requested  320-21576 Chain of Custody	
Address: WI75 N11163 Stonewood Drive Suite 110 City: Germantown State, Zip: WI, 53022		Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Ammonia H - Ascorbic Acid I - DI Water J - EDTA K - EDTA L - EDTA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SD3 R - Na2S2O3 S - H2SO4 T - TSP Dodecanydrate U - Acetone V - MCAA W - PH 4-5 Z - other (specify) Other:	
Project Name: Fort McCoy PFAS Sales: Fort McCoy FTBPI		Special Instructions/Note:	
Sample Identification P-133A DW-133B DW-133B DUD P-134A DW-134 DW-137 DW-141 P-306A DW-306 EA-Blank Matrix Spikes Matrix Spikes		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No PFC_IDA_D0D6 - PFAS, Method 637 Client Specific List <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No Total Number of Containers: 4 Pulled from DW-134	
Sample Date: 9/16/16 Sample Time: 1303 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water		Sample Date: 9/16/16 Sample Time: 1330 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water	
Sample Date: 9/16/16 Sample Time: 1330 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water		Sample Date: 9/16/16 Sample Time: 1500 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water	
Sample Date: 9/16/16 Sample Time: 1400 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water		Sample Date: 9/16/16 Sample Time: 1021 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water	
Sample Date: 9/16/16 Sample Time: 1105 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water		Sample Date: 9/16/16 Sample Time: 1145 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water	
Sample Date: 9/16/16 Sample Time: 1217 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water		Sample Date: 9/16/16 Sample Time: 1130 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water	
Sample Date: 9/16/16 Sample Time: 1400 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water		Sample Date: 9/16/16 Sample Time: 1400 Sample Type (C=Comp, G=grab): G Matrix (W=water, S=solid, O=soil, I=leachate, A=air): Water	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/OC Requirements:	
Empty Kit Relinquished by: (b) (6)		Method of Shipment:	
Date: 9/16/16 12:30 PM		Date: 9/16/16 0555	
Received by: (b) (6)		Received by: JAWS	
Date/Time: 9/16/16 12:30 PM		Date/Time: 9/16/16 0555	
Date/Time:		Date/Time:	
Date/Time:		Date/Time:	
Cooler Temperature(s) °C and Other Remarks: 5.9 4.0 cmg at 16.0		Cooler Temperature(s) °C and Other Remarks:	



Chain of Custody Record

Client Information Client Contact: (b) (6) Company: Hyde Environmental, Inc. Address: WI75 N11163 Stonewood Drive Suite 110 City: Germantown State, Zip: WI, 53022		Carrier Tracking No(s): COC No: 320-12373-2794.2 Page: Page 2 of 3 Job #:	
Due Date Requested: TAT Requested (days): PO # Purchase Order Requested WO # Project # 32008436 SSOV# Site: Fort McCoy FTBR1		Analysis Requested Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes PFC_IDA_DDB5 - PFAS, Method 637 Client Specific List <input checked="" type="checkbox"/> Yes	
Sample Identification Sample Date: 9/7/16 Sample Time: 1055 Sample Type (C=Comp, G=grab): G Preservation Code: 26 Matrix (W=water, S=solid, O=soil, BT=tissue, A=air): Water		Total Number of Containers: 2 Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - J2 J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylsulfate U - Acetone V - NCAAA W - pH 4-5 Z - other (specify)	
Sample Date: 9/7/16 Sample Time: 0905 Sample Type (C=Comp, G=grab): G Preservation Code: 1 Matrix (W=water, S=solid, O=soil, BT=tissue, A=air): Water		Special Instructions/Note: Special Instructions/QC Requirements:	
Sample Date: 9/7/16 Sample Time: 0955 Sample Type (C=Comp, G=grab): G Preservation Code: 1 Matrix (W=water, S=solid, O=soil, BT=tissue, A=air): Water		Special Instructions/Note: Special Instructions/QC Requirements:	
Sample Date: 9/7/16 Sample Time: 1230pm Sample Type (C=Comp, G=grab): G Preservation Code: 1 Matrix (W=water, S=solid, O=soil, BT=tissue, A=air): Water		Special Instructions/Note: Special Instructions/QC Requirements:	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months			
Empty Kit Requisitioned by: (b) (6)			
Received by: (b) (6) Date/Time: 9/7/16 1230pm Company: HEI		Received by: (b) (6) Date/Time: 9/8/16 0955 Company: TPAWS	
Relinquished by: (b) (6)		Relinquished by: (b) (6)	
Cooler Temperature(s) °C and Other Remarks: 4.0			



Login Sample Receipt Checklist

Client: Hyde Environmental, Inc.

Job Number: 320-21576-1

Login Number: 21576

List Source: TestAmerica Sacramento

List Number: 1

Creator: (b) (6)

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	ESS Seals
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

