



DEPARTMENT OF THE ARMY  
US ARMY INSTALLATION MANAGEMENT COMMAND  
IMCOM - READINESS  
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT McCOY  
2171 SOUTH 8<sup>th</sup> AVENUE  
FORT McCOY, WI 54656-5150

December 22, 2016

Ms. Colleen Olsberg  
USEPA REGION 5  
77 West Jackson Boulevard  
**Mail Code:** LU-9j  
Chicago, IL 60604-3507

Dear Ms. Olsberg:

Recent studies have identified serious health concerns associated with exposure to certain perfluorinated chemicals (PFCs) which were contained in Aqueous Film Forming Foam (AFFF) used to extinguish fires caused by flammable liquids. AFFF was historically utilized at Fort McCoy's former Fire Training Burn Pit 2 (FTBP2; BRRTS Case No. 02-42-279956; included in Fort McCoy's Resource Conservation and Recovery Act permit W13 210 020 563), and is currently being used at Fire Training Burn Pit 3 (FTBP3) located southeast (upgradient) of FTBP2 (Figure 1).

On September 6, 2016, the installation collected samples from the four (4) monitoring wells located at FTBP3, and on October 13, 2016, collected groundwater samples from 11 Geoprobe<sup>®</sup> borings in the vicinity of former FTBP2 (Figure 1). All of the samples were analyzed for PFCs. Communication with the Wisconsin Department of Natural Resources (WDNR) revealed that eight PFCs are typically found in groundwater at former fire training sites where AFFF has been utilized. All of the samples were analyzed for these eight constituents, which are perfluorobutanoic acid (PFBA), perfluoropentanoic acid (PFPeA), perfluorohexanoic acid (PFHxA), perfluoroheptanoic acid (PFHpA), perfluorooctanoic acid (PFOA), perfluorobutanesulfonate (PFBS), perfluorohexanesulfonate (PFHxS), and perfluorooctanesulfonate (PFOS). Analytical results are included in Attachment 1, logs and borehole abandonment forms for the Geoprobe<sup>®</sup> borings are included in Attachment 2.

PFC constituents readily dissolve and tend to migrate freely in groundwater without adhering to soil particles. Two PFCs that have been found to cause serious health problems are PFOS and PFOA. In 2016 the United States Environmental Protection Agency (USEPA) established a Health Advisory (HA) level in drinking water for combined concentrations of PFOS and

PFOA of 70 parts per trillion. Federal Maximum Contaminant Levels (MCLs) and State of Wisconsin Enforcement Standards (ESs) have not yet been established for these parameters.

Groundwater elevations collected from the former monitoring wells at FTBP2 in 1994 and 2002 indicate that groundwater flow is north-northwest, toward Silver Creek (Attachment 3), at a rate of 248 feet per year. The creek is more than 3,200 feet north of FTBP2 (Figure 1). AFFF use at FTBP2 began prior to 1982. The last time AFFF was used at FTBP2 was in 1992. Groundwater has had time to flow nearly 6,000 feet downgradient from the pit since the last time AFFF was used at FTBP2 (Assume 1992: 24 years X 365 days/year X 0.68 feet/day = 5,956.8 feet). AFFF continues to be used at FTBP3. In addition, groundwater has had time to flow more than 8,400 feet since 1982, and AFFF use began prior to that time.

The September 2016 results for FTBP3 and the October 2016 results for FTBP2 are summarized in Table 1. Figure 2 presents an isoconcentration map for combined PFOS and PFOA concentrations reported at both FTBP2 and FTBP3.

As shown, it appears that residual PFC contamination at FTBP2 is low. This would be expected, as remediation at FTBP2 included removal of 12,700 gallons of liquid and 610 cubic yards of contaminated soil, along with the liner. Elevated PFC concentrations are flowing north and northwest from ongoing AFFF use at FTBP3. Fort McCoy reported the PFC contamination at FTBP3 to the WDNR on October 11, 2016. Fort McCoy and the WDNR will begin addressing this contamination in the coming months.

Since 1995 (approximate time when AFFF use at FTBP3 began), PFC concentrations in excess of the HA have only migrated 1330 feet beyond FTBP3. The data show that even though PFCs have been migrating in groundwater away from FTBP2 and FTBP3 for 24 and 22 years respectively, combined concentrations of PFOS and PFOA at levels exceeding the HA do not extend beyond the north/south runway and only extend approximately 740 feet north of FTBP2. This is approximately 2,400 feet (south) upgradient of Silver Creek (Figures 1 and 2). In addition, data from the three potable wells located at the airfield (Figure 1) show that PFCs were not detected (Attachment 4). Since it has been over 34 years since AFFF use began at the Airfield, it is likely that the downgradient plume margin has reached its maximum extent, and is stable to receding.

These data show that there are no completed human health or ecological exposure pathways. Such pathways are not likely to be completed in the future. Therefore, Fort McCoy does not recommend any further action with regard to FTBP2.

If you have any questions, please contact Craig Bartholomew at (608) 388-8453.

Sincerely,



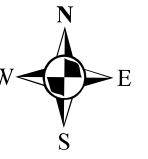
James R. Hessil  
Chief, Environmental Division  
Directorate of Public Works

Enclosures

CC: Ms. Mae Willkom - WDNR



**FIGURE 2**  
**PFOA/PFOS**  
**ISOCONCENTRATION MAP**  
**FORMER FIRE TRAINING**  
**BURN PIT #2**



- BORING LOCATION FOR GROUNDWATER SAMPLES
- ★ POTABLE WELLS
- MONITORING WELLS
- ISOCONCENTRATION CONTOUR OF 0.07 ug/L FOR COMBINED PFOA/PFOS CONCENTRATIONS

0 200 400 Feet  
 1 inch = 175 feet



**TABLE 1**  
**PFC SAMPLING RESULTS FOR FIRE TRAINING BURN PITS 2 & 3**  
(ug/L)

SAMPLING POINT	PARAMETER								COMBINED PFOA & PFOS
	PFBA	PFHxA	PFHpA	PFBS	PFPeA	PFHxS	PFOA	PFOS	
<b>FIRE TRAINING BURN PIT 2 (10/13 &amp; 14/2016)</b>									
B-1	0.0062	0.018	0.0083	0.0037	0.014	0.088	0.0055	0.024	0.0295
B-2	0.0065	0.010	0.0066	0.0041	0.010	0.036	<b>0.014</b>	<b>0.081</b>	<b>0.095</b>
B-3	0.100	0.480	0.130	0.230	0.210	4.400	<b>0.300</b>	<b>62.000</b>	<b>62.300</b>
B-4	0.0076	0.012	0.012	0.0025	0.0093	0.070	<b>0.017</b>	<b>0.810</b>	<b>0.827</b>
B-4 (DUP)	0.0074	0.012	0.012	0.0026	0.0092	0.070	<b>0.017</b>	<b>0.820</b>	<b>0.017</b>
B-5	0.330	0.880	1.400	0.120	0.730	7.400	<b>3.400</b>	<b>69.000</b>	<b>72.400</b>
B-6	0.0028	< 0.00077	0.00082	< 0.00090	0.0018	0.0018	0.0024	0.0037	0.0061
B-7	0.0017	0.0015	0.0018	0.0015	0.0012	0.044	<b>0.0051</b>	<b>0.140</b>	<b>0.1451</b>
B-8	0.00058	< 0.00082	< 0.00083	0.001	0.0019	< 0.00090	< 0.00078	0.0019	0.0019
B-9	0.0064	0.0044	0.0040	< 0.00089	0.0029	0.0037	0.0046	0.032	0.0366
B-10	0.00046	< 0.00078	< 0.00079	< 0.00091	< 0.00098	0.0010	0.0014	0.0034	0.0048
B-11	0.0058	0.0036	0.0016	0.0010	0.0040	0.0036	0.0036	0.029	0.0326
<b>FIRE TRAINING BURN PIT 3 (9/6/2016)</b>									
MW-1R	0.094	0.250	0.280	0.035	0.390	1.200	<b>0.480</b>	<b>6.800</b>	<b>7.280</b>
MW-1R (DUP)	0.098	0.260	0.300	0.042	0.420	1.300	<b>0.480</b>	<b>6.300</b>	<b>6.780</b>
MW-2R	1.400	4.900	1.200	0.380	5.300	7.800	<b>0.720</b>	<b>67.000</b>	<b>67.720</b>
MW-3R	0.750	2.000	0.530	1.200	3.000	2.600	<b>0.510</b>	<b>2.100</b>	<b>2.610</b>
MW-4R	0.200	1.200	0.230	0.250	0.700	5.500	<b>0.650</b>	<b>120.000</b>	<b>120.650</b>
<b>USEPA PROVISIONAL HEALTH ADVISORY (ug/L)</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>NS</b>	<b>0.07<sup>1</sup></b>	<b>0.07<sup>1</sup></b>	<b>0.07<sup>1</sup></b>

<sup>1</sup>This standard is for combined PFOA and PFOS.

**ATTACHMENT 1**  
**ANALYTICAL REPORTS**

**September 2016 Laboratory Reports**

**FTBP3**



# 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: 320-21576-2  
Client Project/Site: Fort McCoy PFAS FTBP3

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

Attn: Jim Lindemann



Authorized for release by:  
10/3/2016 2:53:28 PM

Sandie Fredrick, Project Manager II  
(920)261-1660  
[sandie.fredrick@testamericainc.com](mailto:sandie.fredrick@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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*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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	5
Client Sample Results . . . . .	7
Isotope Dilution Summary . . . . .	12
QC Association Summary . . . . .	14
Lab Chronicle . . . . .	15
Certification Summary . . . . .	17
Method Summary . . . . .	18
Sample Summary . . . . .	19
Chain of Custody . . . . .	20
Receipt Checklists . . . . .	21

# Definitions/Glossary

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

## Qualifiers

### LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
*	Isotope Dilution analyte is outside acceptance limits.
E	Result exceeded calibration range.

## 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 FTBP3

TestAmerica Job ID: 320-21576-2

**Job ID: 320-21576-2**

**Laboratory: TestAmerica Sacramento**

## Narrative

### Job Narrative 320-21576-2

#### 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.

#### Dioxin

Method(s) 537 (Modified): The concentration of Perfluorooctanesulfonic acid (PFOS) in the following sample exceeded the instrument calibration range: MW-2R (320-21576-16) and MW-4R (320-21576-17). This analytes has been qualified; however, the peak did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range. The maximum dilution was performed for the sample.

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: MW-1R (DUP) (320-21576-15), MW-4R (320-21576-17) and MW-3R (320-21576-18). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

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. MW-1R (320-21576-14), MW-1R (DUP) (320-21576-15), MW-2R (320-21576-16), MW-4R (320-21576-17), MW-3R (320-21576-18), (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 320-129481/30), (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), (320-21576-A-5-A), (320-21576-B-5-A MS), (320-21576-B-5-B MSD), (CCV 320-129691/16), (CCV 320-129691/17), (CCV 320-129691/26) and (CCV 320-129691/27)

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: (CCV 320-129481/63).

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 FTBP3

TestAmerica Job ID: 320-21576-2

## Client Sample ID: MW-1R

## Lab Sample ID: 320-21576-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	94	B	2.1	0.38	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	250		2.1	0.65	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	280		2.1	0.66	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	480		2.1	0.62	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	35		2.1	0.76	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	390		100	41	ng/L	50		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	1200		100	36	ng/L	50		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	6800		160	53	ng/L	50		537 (Modified)	Total/NA

## Client Sample ID: MW-1R (DUP)

## Lab Sample ID: 320-21576-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	98	B	2.1	0.38	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	260		2.1	0.65	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	300		2.1	0.66	ng/L	1		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA)	480		2.1	0.62	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	42		2.1	0.76	ng/L	1		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	420		100	41	ng/L	50		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	1300		100	36	ng/L	50		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	6300		170	53	ng/L	50		537 (Modified)	Total/NA

## Client Sample ID: MW-2R

## Lab Sample ID: 320-21576-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA) - DL	1400	B	110	19	ng/L	50		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	4900		110	33	ng/L	50		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	1200		110	34	ng/L	50		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	5300		110	42	ng/L	50		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	720		110	31	ng/L	50		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS) - DL	380		110	39	ng/L	50		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	7800		110	37	ng/L	50		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL2	67000	E	340	110	ng/L	100		537 (Modified)	Total/NA

## Client Sample ID: MW-4R

## Lab Sample ID: 320-21576-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	200	B	2.1	0.38	ng/L	1		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	230		2.1	0.67	ng/L	1		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	1200		100	33	ng/L	50		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	700		100	41	ng/L	50		537 (Modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	650		100	31	ng/L	50		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS) - DL	250		100	39	ng/L	50		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	5500		100	37	ng/L	50		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 FTBP3

TestAmerica Job ID: 320-21576-2

## Client Sample ID: MW-4R (Continued)

## Lab Sample ID: 320-21576-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS) - DL2	120000	E	340	110	ng/L	100		537 (Modified)	Total/NA

## Client Sample ID: MW-3R

## Lab Sample ID: 320-21576-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	510		2.1	0.63	ng/L	1		537 (Modified)	Total/NA
Perfluorobutanoic acid (PFBA) - DL	750	B	110	19	ng/L	50		537 (Modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	2000		110	33	ng/L	50		537 (Modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	530		110	34	ng/L	50		537 (Modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	3000		110	42	ng/L	50		537 (Modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS) - DL	1200		110	39	ng/L	50		537 (Modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	2600		110	37	ng/L	50		537 (Modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	2100		170	54	ng/L	50		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 FTBP3

TestAmerica Job ID: 320-21576-2

**Client Sample ID: MW-1R**

**Date Collected: 09/06/16 16:20**

**Date Received: 09/08/16 09:55**

**Lab Sample ID: 320-21576-14**

**Matrix: Water**

## Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	94	B	2.1	0.38	ng/L		09/10/16 09:06	09/27/16 18:24	1
Perfluorohexanoic acid (PFHxA)	250		2.1	0.65	ng/L		09/10/16 09:06	09/27/16 18:24	1
Perfluoroheptanoic acid (PFHpA)	280		2.1	0.66	ng/L		09/10/16 09:06	09/27/16 18:24	1
Perfluorooctanoic acid (PFOA)	480		2.1	0.62	ng/L		09/10/16 09:06	09/27/16 18:24	1
Perfluorobutanesulfonic acid (PFBS)	35		2.1	0.76	ng/L		09/10/16 09:06	09/27/16 18:24	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	64		25 - 150	09/10/16 09:06	09/27/16 18:24	1
13C4 PFOA	46		25 - 150	09/10/16 09:06	09/27/16 18:24	1
18O2 PFHxS	70		25 - 150	09/10/16 09:06	09/27/16 18:24	1
13C4-PFHpA	47		25 - 150	09/10/16 09:06	09/27/16 18:24	1
13C4 PFBA	35		25 - 150	09/10/16 09:06	09/27/16 18:24	1

## Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	390		100	41	ng/L		09/10/16 09:06	09/28/16 13:56	50
Perfluorohexanesulfonic acid (PFHxS)	1200		100	36	ng/L		09/10/16 09:06	09/28/16 13:56	50
Perfluorooctanesulfonic acid (PFOS)	6800		160	53	ng/L		09/10/16 09:06	09/28/16 13:56	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	135		25 - 150	09/10/16 09:06	09/28/16 13:56	50
13C4 PFOS	132		25 - 150	09/10/16 09:06	09/28/16 13:56	50
13C5-PFPeA	78		25 - 150	09/10/16 09:06	09/28/16 13:56	50

# Client Sample Results

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

**Client Sample ID: MW-1R (DUP)**

**Lab Sample ID: 320-21576-15**

Date Collected: 09/06/16 16:20

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)	98	B	2.1	0.38	ng/L		09/10/16 09:06	09/27/16 18:31	1
Perfluorohexanoic acid (PFHxA)	260		2.1	0.65	ng/L		09/10/16 09:06	09/27/16 18:31	1
Perfluoroheptanoic acid (PFHpA)	300		2.1	0.66	ng/L		09/10/16 09:06	09/27/16 18:31	1
Perfluorooctanoic acid (PFOA)	480		2.1	0.62	ng/L		09/10/16 09:06	09/27/16 18:31	1
Perfluorobutanesulfonic acid (PFBS)	42		2.1	0.76	ng/L		09/10/16 09:06	09/27/16 18:31	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	65		25 - 150	09/10/16 09:06	09/27/16 18:31	1
13C4 PFOA	47		25 - 150	09/10/16 09:06	09/27/16 18:31	1
18O2 PFHxS	71		25 - 150	09/10/16 09:06	09/27/16 18:31	1
13C4-PFHpA	48		25 - 150	09/10/16 09:06	09/27/16 18:31	1
13C4 PFBA	36		25 - 150	09/10/16 09:06	09/27/16 18:31	1

## Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	420		100	41	ng/L		09/10/16 09:06	09/28/16 14:04	50
Perfluorohexanesulfonic acid (PFHxS)	1300		100	36	ng/L		09/10/16 09:06	09/28/16 14:04	50
Perfluorooctanesulfonic acid (PFOS)	6300		170	53	ng/L		09/10/16 09:06	09/28/16 14:04	50

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	286	*	25 - 150	09/10/16 09:06	09/28/16 14:04	50
13C4 PFOS	278	*	25 - 150	09/10/16 09:06	09/28/16 14:04	50
13C5-PFPeA	183	*	25 - 150	09/10/16 09:06	09/28/16 14:04	50



# Client Sample Results

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

**Client Sample ID: MW-2R**

**Date Collected: 09/06/16 17:15**

**Date Received: 09/08/16 09:55**

**Lab Sample ID: 320-21576-16**

**Matrix: Water**

## Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1400	B	110	19	ng/L		09/10/16 09:06	09/28/16 14:11	50
Perfluorohexanoic acid (PFHxA)	4900		110	33	ng/L		09/10/16 09:06	09/28/16 14:11	50
Perfluoroheptanoic acid (PFHpA)	1200		110	34	ng/L		09/10/16 09:06	09/28/16 14:11	50
Perfluoropentanoic acid (PFPeA)	5300		110	42	ng/L		09/10/16 09:06	09/28/16 14:11	50
Perfluorooctanoic acid (PFOA)	720		110	31	ng/L		09/10/16 09:06	09/28/16 14:11	50
Perfluorobutanesulfonic acid (PFBS)	380		110	39	ng/L		09/10/16 09:06	09/28/16 14:11	50
Perfluorohexanesulfonic acid (PFHxS)	7800		110	37	ng/L		09/10/16 09:06	09/28/16 14:11	50
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C2 PFHxA	95		25 - 150				09/10/16 09:06	09/28/16 14:11	50
13C4 PFOA	113		25 - 150				09/10/16 09:06	09/28/16 14:11	50
18O2 PFHxS	141		25 - 150				09/10/16 09:06	09/28/16 14:11	50
13C4-PFHpA	91		25 - 150				09/10/16 09:06	09/28/16 14:11	50
13C5-PFPeA	103		25 - 150				09/10/16 09:06	09/28/16 14:11	50
13C4 PFBA	100		25 - 150				09/10/16 09:06	09/28/16 14:11	50

## Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	67000	E	340	110	ng/L		09/10/16 09:06	09/28/16 18:33	100
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C4 PFOS	138		25 - 150				09/10/16 09:06	09/28/16 18:33	100

# Client Sample Results

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

**Client Sample ID: MW-4R**

**Date Collected: 09/06/16 18:00**

**Date Received: 09/08/16 09:55**

**Lab Sample ID: 320-21576-17**

**Matrix: Water**

## Method: 537 (Modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	200	B	2.1	0.38	ng/L		09/10/16 09:06	09/27/16 19:16	1
Perfluoroheptanoic acid (PFHpA)	230		2.1	0.67	ng/L		09/10/16 09:06	09/27/16 19:16	1
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4-PFHpA		34		25 - 150			09/10/16 09:06	09/27/16 19:16	1
13C4 PFBA		26		25 - 150			09/10/16 09:06	09/27/16 19:16	1

## Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	1200		100	33	ng/L		09/10/16 09:06	09/28/16 14:26	50
Perfluoropentanoic acid (PFPeA)	700		100	41	ng/L		09/10/16 09:06	09/28/16 14:26	50
Perfluorooctanoic acid (PFOA)	650		100	31	ng/L		09/10/16 09:06	09/28/16 14:26	50
Perfluorobutanesulfonic acid (PFBS)	250		100	39	ng/L		09/10/16 09:06	09/28/16 14:26	50
Perfluorohexanesulfonic acid (PFHxS)	5500		100	37	ng/L		09/10/16 09:06	09/28/16 14:26	50
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C2 PFHxA		180	*	25 - 150			09/10/16 09:06	09/28/16 14:26	50
13C4 PFOA		204	*	25 - 150			09/10/16 09:06	09/28/16 14:26	50
18O2 PFHxS		227	*	25 - 150			09/10/16 09:06	09/28/16 14:26	50
13C5-PFPeA		199	*	25 - 150			09/10/16 09:06	09/28/16 14:26	50

## Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	120000	E	340	110	ng/L		09/10/16 09:06	09/28/16 14:19	100
Isotope Dilution		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
13C4 PFOS		72		25 - 150			09/10/16 09:06	09/28/16 14:19	100

# Client Sample Results

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

**Client Sample ID: MW-3R**

**Date Collected: 09/06/16 18:30**

**Date Received: 09/08/16 09:55**

**Lab Sample ID: 320-21576-18**

**Matrix: Water**

**Method: 537 (Modified) - Perfluorinated Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	510		2.1	0.63	ng/L		09/10/16 09:06	09/27/16 19:24	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOA	48		25 - 150				09/10/16 09:06	09/27/16 19:24	1

**Method: 537 (Modified) - Perfluorinated Hydrocarbons - DL**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	750	B	110	19	ng/L		09/10/16 09:06	09/28/16 14:34	50
Perfluorohexanoic acid (PFHxA)	2000		110	33	ng/L		09/10/16 09:06	09/28/16 14:34	50
Perfluoroheptanoic acid (PFHpA)	530		110	34	ng/L		09/10/16 09:06	09/28/16 14:34	50
Perfluoropentanoic acid (PFPeA)	3000		110	42	ng/L		09/10/16 09:06	09/28/16 14:34	50
Perfluorobutanesulfonic acid (PFBS)	1200		110	39	ng/L		09/10/16 09:06	09/28/16 14:34	50
Perfluorohexanesulfonic acid (PFHxS)	2600		110	37	ng/L		09/10/16 09:06	09/28/16 14:34	50
Perfluorooctanesulfonic acid (PFOS)	2100		170	54	ng/L		09/10/16 09:06	09/28/16 14:34	50
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	187	*	25 - 150				09/10/16 09:06	09/28/16 14:34	50
18O2 PFHxS	217	*	25 - 150				09/10/16 09:06	09/28/16 14:34	50
13C4 PFOS	215	*	25 - 150				09/10/16 09:06	09/28/16 14:34	50
13C4-PFHpA	174	*	25 - 150				09/10/16 09:06	09/28/16 14:34	50
13C5-PFPeA	194	*	25 - 150				09/10/16 09:06	09/28/16 14:34	50
13C4 PFBA	179	*	25 - 150				09/10/16 09:06	09/28/16 14:34	50

# Isotope Dilution Summary

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

## Method: 537 (Modified) - Perfluorinated Hydrocarbons

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	3C2 PFHx	3C4 PFO	3O2 PFHx	3C4 PFO	3C4-PFHp	3C5-PFPe	3C4 PFB
		(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-21576-14	MW-1R	64	46	70		47		35
320-21576-15	MW-1R (DUP)	65	47	71		48		36
320-21576-16 - DL	MW-2R	95	113	141		91	103	100
320-21576-17	MW-4R					34		26
320-21576-17 - DL	MW-4R	180 *	204 *	227 *			199 *	
320-21576-18	MW-3R		48					

#### Surrogate Legend

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

## Method: 537 (Modified) - Perfluorinated Hydrocarbons

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	3O2 PFHx	3C4 PFO	3C5-PFPe
		(25-150)	(25-150)	(25-150)
320-21576-14 - DL	MW-1R	135	132	78
320-21576-15 - DL	MW-1R (DUP)	286 *	278 *	183 *

#### Surrogate Legend

18O2 PFHxS = 18O2 PFHxS  
13C4 PFOS = 13C4 PFOS  
13C5-PFPeA = 13C5-PFPeA

## Method: 537 (Modified) - Perfluorinated Hydrocarbons

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	3C4 PFO
		(25-150)
320-21576-16 - DL2	MW-2R	138
320-21576-17 - DL2	MW-4R	72

#### Surrogate Legend

13C4 PFOS = 13C4 PFOS

## Method: 537 (Modified) - Perfluorinated Hydrocarbons

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	3C2 PFHx	3O2 PFHx	3C4 PFO	3C4-PFHp	3C5-PFPe	3C4 PFB
		(25-150)	(25-150)	(25-150)	(25-150)	(25-150)	(25-150)
320-21576-18 - DL	MW-3R	187 *	217 *	215 *	174 *	194 *	179 *

#### Surrogate Legend

13C2 PFHxA = 13C2 PFHxA

TestAmerica Sacramento

# Isotope Dilution Summary

Client: Hyde Environmental, Inc.

Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

18O2 PFHxS = 18O2 PFHxS

13C4 PFOS = 13C4 PFOS

13C4-PFHpA = 13C4-PFHpA

13C5-PFPeA = 13C5-PFPeA

13C4 PFBA = 13C4 PFBA

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# QC Association Summary

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

## LCMS

### Prep Batch: 126548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-21576-14 - DL	MW-1R	Total/NA	Water	3535	
320-21576-14	MW-1R	Total/NA	Water	3535	
320-21576-15 - DL	MW-1R (DUP)	Total/NA	Water	3535	
320-21576-15	MW-1R (DUP)	Total/NA	Water	3535	
320-21576-16 - DL	MW-2R	Total/NA	Water	3535	
320-21576-16 - DL2	MW-2R	Total/NA	Water	3535	
320-21576-17	MW-4R	Total/NA	Water	3535	
320-21576-17 - DL	MW-4R	Total/NA	Water	3535	
320-21576-17 - DL2	MW-4R	Total/NA	Water	3535	
320-21576-18 - DL	MW-3R	Total/NA	Water	3535	
320-21576-18	MW-3R	Total/NA	Water	3535	

### Analysis Batch: 129481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-21576-14	MW-1R	Total/NA	Water	537 (Modified)	126548
320-21576-15	MW-1R (DUP)	Total/NA	Water	537 (Modified)	126548
320-21576-17	MW-4R	Total/NA	Water	537 (Modified)	126548
320-21576-18	MW-3R	Total/NA	Water	537 (Modified)	126548

### Analysis Batch: 129688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-21576-14 - DL	MW-1R	Total/NA	Water	537 (Modified)	126548
320-21576-15 - DL	MW-1R (DUP)	Total/NA	Water	537 (Modified)	126548
320-21576-16 - DL	MW-2R	Total/NA	Water	537 (Modified)	126548
320-21576-17 - DL2	MW-4R	Total/NA	Water	537 (Modified)	126548
320-21576-17 - DL	MW-4R	Total/NA	Water	537 (Modified)	126548
320-21576-18 - DL	MW-3R	Total/NA	Water	537 (Modified)	126548

### Analysis Batch: 129691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-21576-16 - DL2	MW-2R	Total/NA	Water	537 (Modified)	126548

# Lab Chronicle

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

## Client Sample ID: MW-1R

Date Collected: 09/06/16 16:20

Date Received: 09/08/16 09:55

## Lab Sample ID: 320-21576-14

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			303.1 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 18:24	SBC	TAL SAC
Total/NA	Prep	3535	DL		303.1 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)	DL	50			129688	09/28/16 13:56	SBC	TAL SAC

## Client Sample ID: MW-1R (DUP)

Date Collected: 09/06/16 16:20

Date Received: 09/08/16 09:55

## Lab Sample ID: 320-21576-15

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			302.8 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 18:31	SBC	TAL SAC
Total/NA	Prep	3535	DL		302.8 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)	DL	50			129688	09/28/16 14:04	SBC	TAL SAC

## Client Sample ID: MW-2R

Date Collected: 09/06/16 17:15

Date Received: 09/08/16 09:55

## Lab Sample ID: 320-21576-16

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	DL		296.9 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)	DL	50			129688	09/28/16 14:11	SBC	TAL SAC
Total/NA	Prep	3535	DL2		296.9 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)	DL2	100			129691	09/28/16 18:33	CBW	TAL SAC

## Client Sample ID: MW-4R

Date Collected: 09/06/16 18:00

Date Received: 09/08/16 09:55

## Lab Sample ID: 320-21576-17

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			297.9 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)		1			129481	09/27/16 19:16	SBC	TAL SAC
Total/NA	Prep	3535	DL2		297.9 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)	DL2	100			129688	09/28/16 14:19	SBC	TAL SAC
Total/NA	Prep	3535	DL		297.9 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)	DL	50			129688	09/28/16 14:26	SBC	TAL SAC

## Client Sample ID: MW-3R

Date Collected: 09/06/16 18:30

Date Received: 09/08/16 09:55

## Lab Sample ID: 320-21576-18

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			295.3 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC

TestAmerica Sacramento

# Lab Chronicle

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

**Client Sample ID: MW-3R**

**Date Collected: 09/06/16 18:30**

**Date Received: 09/08/16 09:55**

**Lab Sample ID: 320-21576-18**

**Matrix: Water**

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 19:24	SBC	TAL SAC
Total/NA	Prep	3535	DL		295.3 mL	0.5 mL	126548	09/10/16 09:06	HJA	TAL SAC
Total/NA	Analysis	537 (Modified)	DL	50			129688	09/28/16 14:34	SBC	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 FTBP3

TestAmerica Job ID: 320-21576-2

## 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

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# Method Summary

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

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

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**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

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



# Sample Summary

Client: Hyde Environmental, Inc.  
Project/Site: Fort McCoy PFAS FTBP3

TestAmerica Job ID: 320-21576-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-21576-14	MW-1R	Water	09/06/16 16:20	09/08/16 09:55
320-21576-15	MW-1R (DUP)	Water	09/06/16 16:20	09/08/16 09:55
320-21576-16	MW-2R	Water	09/06/16 17:15	09/08/16 09:55
320-21576-17	MW-4R	Water	09/06/16 18:00	09/08/16 09:55
320-21576-18	MW-3R	Water	09/06/16 18:30	09/08/16 09:55

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# Login Sample Receipt Checklist

Client: Hyde Environmental, Inc.

Job Number: 320-21576-2

**Login Number: 21576**

**List Source: TestAmerica Sacramento**

**List Number: 1**

**Creator: Turpen, Troy**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**October 2016 Laboratory Reports**

**FTBP2**

# 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: 320-22766-1

Client Project/Site: Former Fire Training Pit #2, Fort McCoy

For:

Short Elliott Hendrickson, Inc. dba SEH  
10 North Bridge Street  
Chippewa Falls, Wisconsin 54729-3374

Attn: Mr. Mike Rohlik



Authorized for release by:  
10/31/2016 2:05:02 PM

Sandie Fredrick, Project Manager II  
(920)261-1660  
[sandie.fredrick@testamericainc.com](mailto:sandie.fredrick@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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
- 16

# 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 . . . . .	15
QC Sample Results . . . . .	16
QC Association Summary . . . . .	18
Lab Chronicle . . . . .	19
Certification Summary . . . . .	22
Method Summary . . . . .	23
Sample Summary . . . . .	24
Chain of Custody . . . . .	25
Field Data Sheets . . . . .	27
Receipt Checklists . . . . .	29





# Definitions/Glossary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	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: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

**Job ID: 320-22766-1**

**Laboratory: TestAmerica Sacramento**

## Narrative

### Job Narrative 320-22766-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/18/2016 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.2° C.

#### LCMS

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

#### Organic Prep

Method(s) 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 320-133422.

Method(s) 3535: Due to the excessive amount of sediment in the sample bottles the aqueous portion of these samples was decanted to new bottles prior to spiking and extraction. B-1 (320-22766-1), B-2 (320-22766-2), B-4 (320-22766-4), B-4 DUP (320-22766-5), B-6 (320-22766-7), B-9 (320-22766-10), B-10 (320-22766-11) and B-11 (320-22766-12)

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

# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Client Sample ID: B-1

## Lab Sample ID: 320-22766-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	3.7		2.0	0.90	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	6.2		2.0	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	88		2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	14		2.0	0.97	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	8.3		2.0	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	18		2.0	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.5		2.0	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	24		2.0	1.2	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: B-2

## Lab Sample ID: 320-22766-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	4.1		2.0	0.92	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	6.5		2.0	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	36		2.0	0.87	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	10		2.0	0.99	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	6.6		2.0	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	10		2.0	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	14		2.0	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	81		2.0	1.3	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: B-3

## Lab Sample ID: 320-22766-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	230		1.8	0.84	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	100		1.8	0.42	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	210		1.8	0.90	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	130		1.8	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	300		1.8	0.68	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4400		180	79	ng/L	100		537 (modified)	Total/NA
- DL									
Perfluorohexanoic acid (PFHxA) - DL	480		180	72	ng/L	100		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	62000		180	120	ng/L	100		537 (modified)	Total/NA

## Client Sample ID: B-4

## Lab Sample ID: 320-22766-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.5		1.9	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	7.6		1.9	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	70		1.9	0.83	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	9.3		1.9	0.95	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	12		1.9	0.77	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	12		1.9	0.75	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	17		1.9	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	810		19	12	ng/L	10		537 (modified)	Total/NA

## Client Sample ID: B-4 DUP

## Lab Sample ID: 320-22766-5

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

## Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

### Client Sample ID: B-4 DUP (Continued)

### Lab Sample ID: 320-22766-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	2.6		1.9	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	7.4		1.9	0.44	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	70		1.9	0.84	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	9.2		1.9	0.96	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	12		1.9	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	12		1.9	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	17		1.9	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	820		19	12	ng/L	10		537 (modified)	Total/NA

### Client Sample ID: B-5

### Lab Sample ID: 320-22766-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	120		1.9	0.87	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	330		1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - DL	7400		190	82	ng/L	100		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - DL	730		190	93	ng/L	100		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - DL	1400		190	76	ng/L	100		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA) - DL	880		190	74	ng/L	100		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - DL	3400		190	71	ng/L	100		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - DL	69000		190	120	ng/L	100		537 (modified)	Total/NA

### Client Sample ID: B-6

### Lab Sample ID: 320-22766-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.8		2.0	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS) - RA	1.8	J	2.0	0.85	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA) - RA	1.8	J	2.0	0.97	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA) - RA	0.82	J	2.0	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA) - RA	2.4		2.0	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS) - RA	3.7		2.0	1.2	ng/L	1		537 (modified)	Total/NA

### Client Sample ID: B-7

### Lab Sample ID: 320-22766-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.8	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	1.7	J	1.8	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	44		1.8	0.80	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.2	J	1.8	0.91	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.8		1.8	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.5	J	1.8	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	5.1		1.8	0.69	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	140		1.8	1.2	ng/L	1		537 (modified)	Total/NA

### Client Sample ID: B-8

### Lab Sample ID: 320-22766-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.0	J	2.1	0.95	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

# Detection Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Client Sample ID: B-8 (Continued)

## Lab Sample ID: 320-22766-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.58	J	2.1	0.48	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.9	J	2.1	1.0	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.9	J	2.1	1.3	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: B-9

## Lab Sample ID: 320-22766-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.4		1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.7		1.9	0.85	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.9		1.9	0.96	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.0		1.9	0.78	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.4		1.9	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.6		1.9	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	32		1.9	1.2	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: B-10

## Lab Sample ID: 320-22766-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.46	J	2.0	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.0	J	2.0	0.86	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.4	J	2.0	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	3.4		2.0	1.3	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: B-11

## Lab Sample ID: 320-22766-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.0	J	2.0	0.94	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	5.8		2.0	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.6		2.0	0.89	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.0		2.0	1.0	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.6	J	2.0	0.82	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.6		2.0	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.6		2.0	0.76	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	29		2.0	1.3	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: EQUIPMENT BLANK

## Lab Sample ID: 320-22766-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	0.95	J	1.9	0.43	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

**Client Sample ID: B-1**

**Date Collected: 10/13/16 14:50**

**Date Received: 10/18/16 09:40**

**Lab Sample ID: 320-22766-1**

**Matrix: Water**

**Method: 537 (modified) - Perfluorinated Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	3.7		2.0	0.90	ng/L		10/19/16 15:23	10/25/16 22:12	1
Perfluorobutanoic acid (PFBA)	6.2		2.0	0.45	ng/L		10/19/16 15:23	10/25/16 22:12	1
Perfluorohexanesulfonic acid (PFHxS)	88		2.0	0.85	ng/L		10/19/16 15:23	10/25/16 22:12	1
Perfluoropentanoic acid (PFPeA)	14		2.0	0.97	ng/L		10/19/16 15:23	10/25/16 22:12	1
Perfluoroheptanoic acid (PFHpA)	8.3		2.0	0.78	ng/L		10/19/16 15:23	10/25/16 22:12	1
Perfluorohexanoic acid (PFHxA)	18		2.0	0.77	ng/L		10/19/16 15:23	10/25/16 22:12	1
Perfluorooctanoic acid (PFOA)	5.5		2.0	0.73	ng/L		10/19/16 15:23	10/25/16 22:12	1
Perfluorooctanesulfonic acid (PFOS)	24		2.0	1.2	ng/L		10/19/16 15:23	10/25/16 22:12	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	107		25 - 150				10/19/16 15:23	10/25/16 22:12	1
13C4-PFHpA	75		25 - 150				10/19/16 15:23	10/25/16 22:12	1
13C4 PFOA	76		25 - 150				10/19/16 15:23	10/25/16 22:12	1
13C4 PFOS	115		25 - 150				10/19/16 15:23	10/25/16 22:12	1
13C4 PFBA	47		25 - 150				10/19/16 15:23	10/25/16 22:12	1
13C2 PFHxA	79		25 - 150				10/19/16 15:23	10/25/16 22:12	1
13C5 PFPeA	80		25 - 150				10/19/16 15:23	10/25/16 22:12	1

**Client Sample ID: B-2**

**Date Collected: 10/13/16 16:20**

**Date Received: 10/18/16 09:40**

**Lab Sample ID: 320-22766-2**

**Matrix: Water**

**Method: 537 (modified) - Perfluorinated Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	4.1		2.0	0.92	ng/L		10/19/16 15:23	10/25/16 22:19	1
Perfluorobutanoic acid (PFBA)	6.5		2.0	0.46	ng/L		10/19/16 15:23	10/25/16 22:19	1
Perfluorohexanesulfonic acid (PFHxS)	36		2.0	0.87	ng/L		10/19/16 15:23	10/25/16 22:19	1
Perfluoropentanoic acid (PFPeA)	10		2.0	0.99	ng/L		10/19/16 15:23	10/25/16 22:19	1
Perfluoroheptanoic acid (PFHpA)	6.6		2.0	0.81	ng/L		10/19/16 15:23	10/25/16 22:19	1
Perfluorohexanoic acid (PFHxA)	10		2.0	0.79	ng/L		10/19/16 15:23	10/25/16 22:19	1
Perfluorooctanoic acid (PFOA)	14		2.0	0.75	ng/L		10/19/16 15:23	10/25/16 22:19	1
Perfluorooctanesulfonic acid (PFOS)	81		2.0	1.3	ng/L		10/19/16 15:23	10/25/16 22:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	107		25 - 150				10/19/16 15:23	10/25/16 22:19	1
13C4-PFHpA	66		25 - 150				10/19/16 15:23	10/25/16 22:19	1
13C4 PFOA	63		25 - 150				10/19/16 15:23	10/25/16 22:19	1
13C4 PFOS	110		25 - 150				10/19/16 15:23	10/25/16 22:19	1
13C4 PFBA	44		25 - 150				10/19/16 15:23	10/25/16 22:19	1
13C2 PFHxA	70		25 - 150				10/19/16 15:23	10/25/16 22:19	1
13C5 PFPeA	70		25 - 150				10/19/16 15:23	10/25/16 22:19	1

TestAmerica Sacramento

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Client Sample ID: B-3

Date Collected: 10/13/16 15:45

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-3

Matrix: Water

### Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	230		1.8	0.84	ng/L		10/19/16 15:23	10/25/16 22:27	1
Perfluorobutanoic acid (PFBA)	100		1.8	0.42	ng/L		10/19/16 15:23	10/25/16 22:27	1
Perfluoropentanoic acid (PFPeA)	210		1.8	0.90	ng/L		10/19/16 15:23	10/25/16 22:27	1
Perfluoroheptanoic acid (PFHpA)	130		1.8	0.73	ng/L		10/19/16 15:23	10/25/16 22:27	1
Perfluorooctanoic acid (PFOA)	300		1.8	0.68	ng/L		10/19/16 15:23	10/25/16 22:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	51		25 - 150				10/19/16 15:23	10/25/16 22:27	1
13C4-PFHpA	44		25 - 150				10/19/16 15:23	10/25/16 22:27	1
13C4 PFOA	71		25 - 150				10/19/16 15:23	10/25/16 22:27	1
13C4 PFBA	34		25 - 150				10/19/16 15:23	10/25/16 22:27	1
13C5 PFPeA	67		25 - 150				10/19/16 15:23	10/25/16 22:27	1

### Method: 537 (modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	4400		180	79	ng/L		10/19/16 15:23	10/26/16 18:18	100
Perfluorohexanoic acid (PFHxA)	480		180	72	ng/L		10/19/16 15:23	10/26/16 18:18	100
Perfluorooctanesulfonic acid (PFOS)	62000		180	120	ng/L		10/19/16 15:23	10/26/16 18:18	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	108		25 - 150				10/19/16 15:23	10/26/16 18:18	100
13C4 PFOS	100		25 - 150				10/19/16 15:23	10/26/16 18:18	100
13C2 PFHxA	80		25 - 150				10/19/16 15:23	10/26/16 18:18	100

## Client Sample ID: B-4

Date Collected: 10/14/16 11:20

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-4

Matrix: Water

### Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.5		1.9	0.88	ng/L		10/19/16 15:23	10/25/16 22:34	1
Perfluorobutanoic acid (PFBA)	7.6		1.9	0.44	ng/L		10/19/16 15:23	10/25/16 22:34	1
Perfluorohexanesulfonic acid (PFHxS)	70		1.9	0.83	ng/L		10/19/16 15:23	10/25/16 22:34	1
Perfluoropentanoic acid (PFPeA)	9.3		1.9	0.95	ng/L		10/19/16 15:23	10/25/16 22:34	1
Perfluoroheptanoic acid (PFHpA)	12		1.9	0.77	ng/L		10/19/16 15:23	10/25/16 22:34	1
Perfluorohexanoic acid (PFHxA)	12		1.9	0.75	ng/L		10/19/16 15:23	10/25/16 22:34	1
Perfluorooctanoic acid (PFOA)	17		1.9	0.72	ng/L		10/19/16 15:23	10/25/16 22:34	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	102		25 - 150				10/19/16 15:23	10/25/16 22:34	1
13C4-PFHpA	64		25 - 150				10/19/16 15:23	10/25/16 22:34	1
13C4 PFOA	71		25 - 150				10/19/16 15:23	10/25/16 22:34	1
13C4 PFBA	43		25 - 150				10/19/16 15:23	10/25/16 22:34	1
13C2 PFHxA	65		25 - 150				10/19/16 15:23	10/25/16 22:34	1
13C5 PFPeA	64		25 - 150				10/19/16 15:23	10/25/16 22:34	1

TestAmerica Sacramento

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Client Sample ID: B-4

Date Collected: 10/14/16 11:20

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-4

Matrix: Water

### Method: 537 (modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	810		19	12	ng/L		10/19/16 15:23	10/26/16 18:56	10
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	116		25 - 150				10/19/16 15:23	10/26/16 18:56	10

## Client Sample ID: B-4 DUP

Date Collected: 10/14/16 11:30

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-5

Matrix: Water

### Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.6		1.9	0.89	ng/L		10/19/16 15:23	10/25/16 22:42	1
Perfluorobutanoic acid (PFBA)	7.4		1.9	0.44	ng/L		10/19/16 15:23	10/25/16 22:42	1
Perfluorohexanesulfonic acid (PFHxS)	70		1.9	0.84	ng/L		10/19/16 15:23	10/25/16 22:42	1
Perfluoropentanoic acid (PFPeA)	9.2		1.9	0.96	ng/L		10/19/16 15:23	10/25/16 22:42	1
Perfluoroheptanoic acid (PFHpA)	12		1.9	0.78	ng/L		10/19/16 15:23	10/25/16 22:42	1
Perfluorohexanoic acid (PFHxA)	12		1.9	0.76	ng/L		10/19/16 15:23	10/25/16 22:42	1
Perfluorooctanoic acid (PFOA)	17		1.9	0.72	ng/L		10/19/16 15:23	10/25/16 22:42	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	98		25 - 150				10/19/16 15:23	10/25/16 22:42	1
13C4-PFHpA	69		25 - 150				10/19/16 15:23	10/25/16 22:42	1
13C4 PFOA	74		25 - 150				10/19/16 15:23	10/25/16 22:42	1
13C4 PFBA	46		25 - 150				10/19/16 15:23	10/25/16 22:42	1
13C2 PFHxA	71		25 - 150				10/19/16 15:23	10/25/16 22:42	1
13C5 PFPeA	72		25 - 150				10/19/16 15:23	10/25/16 22:42	1

### Method: 537 (modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	820		19	12	ng/L		10/19/16 15:23	10/26/16 19:03	10
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFOS	100		25 - 150				10/19/16 15:23	10/26/16 19:03	10

## Client Sample ID: B-5

Date Collected: 10/14/16 11:00

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-6

Matrix: Water

### Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	120		1.9	0.87	ng/L		10/19/16 15:23	10/25/16 22:49	1
Perfluorobutanoic acid (PFBA)	330		1.9	0.43	ng/L		10/19/16 15:23	10/25/16 22:49	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	38		25 - 150				10/19/16 15:23	10/25/16 22:49	1
13C4 PFBA	44		25 - 150				10/19/16 15:23	10/25/16 22:49	1

TestAmerica Sacramento



# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Client Sample ID: B-5

Date Collected: 10/14/16 11:00

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-6

Matrix: Water

### Method: 537 (modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	7400		190	82	ng/L		10/19/16 15:23	10/26/16 18:26	100
Perfluoropentanoic acid (PFPeA)	730		190	93	ng/L		10/19/16 15:23	10/26/16 18:26	100
Perfluoroheptanoic acid (PFHpA)	1400		190	76	ng/L		10/19/16 15:23	10/26/16 18:26	100
Perfluorohexanoic acid (PFHxA)	880		190	74	ng/L		10/19/16 15:23	10/26/16 18:26	100
Perfluorooctanoic acid (PFOA)	3400		190	71	ng/L		10/19/16 15:23	10/26/16 18:26	100
Perfluorooctanesulfonic acid (PFOS)	69000		190	120	ng/L		10/19/16 15:23	10/26/16 18:26	100
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C4-PFHpA	82		25 - 150				10/19/16 15:23	10/26/16 18:26	100
<sup>13</sup> C4 PFOA	102		25 - 150				10/19/16 15:23	10/26/16 18:26	100
<sup>13</sup> C4 PFOS	85		25 - 150				10/19/16 15:23	10/26/16 18:26	100
<sup>13</sup> C2 PFHxA	78		25 - 150				10/19/16 15:23	10/26/16 18:26	100
<sup>13</sup> C5 PFPeA	86		25 - 150				10/19/16 15:23	10/26/16 18:26	100

## Client Sample ID: B-6

Date Collected: 10/14/16 10:15

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-7

Matrix: Water

### Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<0.90		2.0	0.90	ng/L		10/19/16 15:23	10/25/16 22:57	1
Perfluorobutanoic acid (PFBA)	2.8		2.0	0.45	ng/L		10/19/16 15:23	10/25/16 22:57	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>18</sup> O2 PFHxS	100		25 - 150				10/19/16 15:23	10/25/16 22:57	1
<sup>13</sup> C4 PFBA	50		25 - 150				10/19/16 15:23	10/25/16 22:57	1

### Method: 537 (modified) - Perfluorinated Hydrocarbons - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	1.8	J	2.0	0.85	ng/L		10/19/16 15:23	10/26/16 20:11	1
Perfluoropentanoic acid (PFPeA)	1.8	J	2.0	0.97	ng/L		10/19/16 15:23	10/26/16 20:11	1
Perfluoroheptanoic acid (PFHpA)	0.82	J	2.0	0.78	ng/L		10/19/16 15:23	10/26/16 20:11	1
Perfluorohexanoic acid (PFHxA)	<0.77		2.0	0.77	ng/L		10/19/16 15:23	10/26/16 20:11	1
Perfluorooctanoic acid (PFOA)	2.4		2.0	0.73	ng/L		10/19/16 15:23	10/26/16 20:11	1
Perfluorooctanesulfonic acid (PFOS)	3.7		2.0	1.2	ng/L		10/19/16 15:23	10/26/16 20:11	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C4-PFHpA	67		25 - 150				10/19/16 15:23	10/26/16 20:11	1
<sup>13</sup> C4 PFOA	65		25 - 150				10/19/16 15:23	10/26/16 20:11	1
<sup>13</sup> C4 PFOS	112		25 - 150				10/19/16 15:23	10/26/16 20:11	1
<sup>13</sup> C2 PFHxA	70		25 - 150				10/19/16 15:23	10/26/16 20:11	1
<sup>13</sup> C5 PFPeA	73		25 - 150				10/19/16 15:23	10/26/16 20:11	1

TestAmerica Sacramento

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Client Sample ID: B-7

Date Collected: 10/14/16 09:15

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-8

Matrix: Water

### Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.8	0.85	ng/L		10/19/16 15:23	10/25/16 23:34	1
Perfluorobutanoic acid (PFBA)	1.7	J	1.8	0.42	ng/L		10/19/16 15:23	10/25/16 23:34	1
Perfluorohexanesulfonic acid (PFHxS)	44		1.8	0.80	ng/L		10/19/16 15:23	10/25/16 23:34	1
Perfluoropentanoic acid (PFPeA)	1.2	J	1.8	0.91	ng/L		10/19/16 15:23	10/25/16 23:34	1
Perfluoroheptanoic acid (PFHpA)	1.8		1.8	0.74	ng/L		10/19/16 15:23	10/25/16 23:34	1
Perfluorohexanoic acid (PFHxA)	1.5	J	1.8	0.72	ng/L		10/19/16 15:23	10/25/16 23:34	1
Perfluorooctanoic acid (PFOA)	5.1		1.8	0.69	ng/L		10/19/16 15:23	10/25/16 23:34	1
Perfluorooctanesulfonic acid (PFOS)	140		1.8	1.2	ng/L		10/19/16 15:23	10/25/16 23:34	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	98		25 - 150	10/19/16 15:23	10/25/16 23:34	1
13C4-PFHpA	66		25 - 150	10/19/16 15:23	10/25/16 23:34	1
13C4 PFOA	66		25 - 150	10/19/16 15:23	10/25/16 23:34	1
13C4 PFOS	103		25 - 150	10/19/16 15:23	10/25/16 23:34	1
13C4 PFBA	36		25 - 150	10/19/16 15:23	10/25/16 23:34	1
13C2 PFHxA	69		25 - 150	10/19/16 15:23	10/25/16 23:34	1
13C5 PFPeA	64		25 - 150	10/19/16 15:23	10/25/16 23:34	1

## Client Sample ID: B-8

Date Collected: 10/14/16 09:50

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-9

Matrix: Water

### Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	1.0	J	2.1	0.95	ng/L		10/19/16 15:23	10/25/16 23:42	1
Perfluorobutanoic acid (PFBA)	0.58	J	2.1	0.48	ng/L		10/19/16 15:23	10/25/16 23:42	1
Perfluorohexanesulfonic acid (PFHxS)	<0.90		2.1	0.90	ng/L		10/19/16 15:23	10/25/16 23:42	1
Perfluoropentanoic acid (PFPeA)	1.9	J	2.1	1.0	ng/L		10/19/16 15:23	10/25/16 23:42	1
Perfluoroheptanoic acid (PFHpA)	<0.83		2.1	0.83	ng/L		10/19/16 15:23	10/25/16 23:42	1
Perfluorohexanoic acid (PFHxA)	<0.82		2.1	0.82	ng/L		10/19/16 15:23	10/25/16 23:42	1
Perfluorooctanoic acid (PFOA)	<0.78		2.1	0.78	ng/L		10/19/16 15:23	10/25/16 23:42	1
Perfluorooctanesulfonic acid (PFOS)	1.9	J	2.1	1.3	ng/L		10/19/16 15:23	10/25/16 23:42	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	101		25 - 150	10/19/16 15:23	10/25/16 23:42	1
13C4-PFHpA	83		25 - 150	10/19/16 15:23	10/25/16 23:42	1
13C4 PFOA	90		25 - 150	10/19/16 15:23	10/25/16 23:42	1
13C4 PFOS	107		25 - 150	10/19/16 15:23	10/25/16 23:42	1
13C4 PFBA	61		25 - 150	10/19/16 15:23	10/25/16 23:42	1
13C2 PFHxA	88		25 - 150	10/19/16 15:23	10/25/16 23:42	1
13C5 PFPeA	94		25 - 150	10/19/16 15:23	10/25/16 23:42	1

TestAmerica Sacramento

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

**Client Sample ID: B-9**

**Lab Sample ID: 320-22766-10**

**Date Collected: 10/13/16 13:50**

**Matrix: Water**

**Date Received: 10/18/16 09:40**

**Method: 537 (modified) - Perfluorinated Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<0.89		1.9	0.89	ng/L		10/19/16 15:23	10/25/16 23:49	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>6.4</b>		1.9	0.45	ng/L		10/19/16 15:23	10/25/16 23:49	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>3.7</b>		1.9	0.85	ng/L		10/19/16 15:23	10/25/16 23:49	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>2.9</b>		1.9	0.96	ng/L		10/19/16 15:23	10/25/16 23:49	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>4.0</b>		1.9	0.78	ng/L		10/19/16 15:23	10/25/16 23:49	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>4.4</b>		1.9	0.76	ng/L		10/19/16 15:23	10/25/16 23:49	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>4.6</b>		1.9	0.73	ng/L		10/19/16 15:23	10/25/16 23:49	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>32</b>		1.9	1.2	ng/L		10/19/16 15:23	10/25/16 23:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	104		25 - 150				10/19/16 15:23	10/25/16 23:49	1
13C4-PFHpa	86		25 - 150				10/19/16 15:23	10/25/16 23:49	1
13C4 PFOA	83		25 - 150				10/19/16 15:23	10/25/16 23:49	1
13C4 PFOS	108		25 - 150				10/19/16 15:23	10/25/16 23:49	1
13C4 PFBA	66		25 - 150				10/19/16 15:23	10/25/16 23:49	1
13C2 PFHxA	94		25 - 150				10/19/16 15:23	10/25/16 23:49	1
13C5 PFPeA	94		25 - 150				10/19/16 15:23	10/25/16 23:49	1

**Client Sample ID: B-10**

**Lab Sample ID: 320-22766-11**

**Date Collected: 10/13/16 13:20**

**Matrix: Water**

**Date Received: 10/18/16 09:40**

**Method: 537 (modified) - Perfluorinated Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<0.91		2.0	0.91	ng/L		10/19/16 15:23	10/25/16 23:57	1
<b>Perfluorobutanoic acid (PFBA)</b>	<b>0.46</b>	<b>J</b>	2.0	0.45	ng/L		10/19/16 15:23	10/25/16 23:57	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>1.0</b>	<b>J</b>	2.0	0.86	ng/L		10/19/16 15:23	10/25/16 23:57	1
Perfluoropentanoic acid (PFPeA)	<0.98		2.0	0.98	ng/L		10/19/16 15:23	10/25/16 23:57	1
Perfluoroheptanoic acid (PFHpA)	<0.79		2.0	0.79	ng/L		10/19/16 15:23	10/25/16 23:57	1
Perfluorohexanoic acid (PFHxA)	<0.78		2.0	0.78	ng/L		10/19/16 15:23	10/25/16 23:57	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>1.4</b>	<b>J</b>	2.0	0.74	ng/L		10/19/16 15:23	10/25/16 23:57	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>3.4</b>		2.0	1.3	ng/L		10/19/16 15:23	10/25/16 23:57	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	107		25 - 150				10/19/16 15:23	10/25/16 23:57	1
13C4-PFHpa	54		25 - 150				10/19/16 15:23	10/25/16 23:57	1
13C4 PFOA	55		25 - 150				10/19/16 15:23	10/25/16 23:57	1
13C4 PFOS	109		25 - 150				10/19/16 15:23	10/25/16 23:57	1
13C4 PFBA	45		25 - 150				10/19/16 15:23	10/25/16 23:57	1
13C2 PFHxA	52		25 - 150				10/19/16 15:23	10/25/16 23:57	1
13C5 PFPeA	55		25 - 150				10/19/16 15:23	10/25/16 23:57	1

TestAmerica Sacramento

# Client Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

**Client Sample ID: B-11**

**Lab Sample ID: 320-22766-12**

**Date Collected: 10/13/16 12:00**

**Matrix: Water**

**Date Received: 10/18/16 09:40**

**Method: 537 (modified) - Perfluorinated Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	1.0	J	2.0	0.94	ng/L		10/19/16 15:23	10/26/16 00:04	1
Perfluorobutanoic acid (PFBA)	5.8		2.0	0.47	ng/L		10/19/16 15:23	10/26/16 00:04	1
Perfluorohexanesulfonic acid (PFHxS)	3.6		2.0	0.89	ng/L		10/19/16 15:23	10/26/16 00:04	1
Perfluoropentanoic acid (PFPeA)	4.0		2.0	1.0	ng/L		10/19/16 15:23	10/26/16 00:04	1
Perfluoroheptanoic acid (PFHpA)	1.6	J	2.0	0.82	ng/L		10/19/16 15:23	10/26/16 00:04	1
Perfluorohexanoic acid (PFHxA)	3.6		2.0	0.80	ng/L		10/19/16 15:23	10/26/16 00:04	1
Perfluorooctanoic acid (PFOA)	3.6		2.0	0.76	ng/L		10/19/16 15:23	10/26/16 00:04	1
Perfluorooctanesulfonic acid (PFOS)	29		2.0	1.3	ng/L		10/19/16 15:23	10/26/16 00:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	99		25 - 150	10/19/16 15:23	10/26/16 00:04	1
13C4-PFHpA	89		25 - 150	10/19/16 15:23	10/26/16 00:04	1
13C4 PFOA	87		25 - 150	10/19/16 15:23	10/26/16 00:04	1
13C4 PFOS	103		25 - 150	10/19/16 15:23	10/26/16 00:04	1
13C4 PFBA	62		25 - 150	10/19/16 15:23	10/26/16 00:04	1
13C2 PFHxA	94		25 - 150	10/19/16 15:23	10/26/16 00:04	1
13C5 PFPeA	94		25 - 150	10/19/16 15:23	10/26/16 00:04	1

**Client Sample ID: EQUIPMENT BLANK**

**Lab Sample ID: 320-22766-13**

**Date Collected: 10/14/16 11:45**

**Matrix: Water**

**Date Received: 10/18/16 09:40**

**Method: 537 (modified) - Perfluorinated Hydrocarbons**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<0.86		1.9	0.86	ng/L		10/19/16 15:23	10/26/16 00:12	1
Perfluorobutanoic acid (PFBA)	0.95	J	1.9	0.43	ng/L		10/19/16 15:23	10/26/16 00:12	1
Perfluorohexanesulfonic acid (PFHxS)	<0.82		1.9	0.82	ng/L		10/19/16 15:23	10/26/16 00:12	1
Perfluoropentanoic acid (PFPeA)	<0.93		1.9	0.93	ng/L		10/19/16 15:23	10/26/16 00:12	1
Perfluoroheptanoic acid (PFHpA)	<0.75		1.9	0.75	ng/L		10/19/16 15:23	10/26/16 00:12	1
Perfluorohexanoic acid (PFHxA)	<0.74		1.9	0.74	ng/L		10/19/16 15:23	10/26/16 00:12	1
Perfluorooctanoic acid (PFOA)	<0.70		1.9	0.70	ng/L		10/19/16 15:23	10/26/16 00:12	1
Perfluorooctanesulfonic acid (PFOS)	<1.2		1.9	1.2	ng/L		10/19/16 15:23	10/26/16 00:12	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	100		25 - 150	10/19/16 15:23	10/26/16 00:12	1
13C4-PFHpA	80		25 - 150	10/19/16 15:23	10/26/16 00:12	1
13C4 PFOA	72		25 - 150	10/19/16 15:23	10/26/16 00:12	1
13C4 PFOS	101		25 - 150	10/19/16 15:23	10/26/16 00:12	1
13C4 PFBA	100		25 - 150	10/19/16 15:23	10/26/16 00:12	1
13C2 PFHxA	98		25 - 150	10/19/16 15:23	10/26/16 00:12	1
13C5 PFPeA	114		25 - 150	10/19/16 15:23	10/26/16 00:12	1

TestAmerica Sacramento

# Isotope Dilution Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Method: 537 (modified) - Perfluorinated Hydrocarbons

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)						
		<sup>18</sup> O2 PFHx (25-150)	<sup>13</sup> C4-PFHp (25-150)	<sup>13</sup> C4 PFO (25-150)	<sup>13</sup> C4 PFO (25-150)	<sup>13</sup> C4 PFB (25-150)	<sup>13</sup> C2 PFHx (25-150)	<sup>13</sup> C5 PFPe (25-150)
320-22766-1	B-1	107	75	76	115	47	79	80
320-22766-2	B-2	107	66	63	110	44	70	70
320-22766-3	B-3	51	44	71		34		67
320-22766-3 - DL	B-3	108			100		80	
320-22766-4	B-4	102	64	71		43	65	64
320-22766-4 - DL	B-4				116			
320-22766-5	B-4 DUP	98	69	74		46	71	72
320-22766-5 - DL	B-4 DUP				100			
320-22766-6	B-5	38				44		
320-22766-6 - DL	B-5		82	102	85		78	86
320-22766-7	B-6	100				50		
320-22766-7 - RA	B-6		67	65	112		70	73
320-22766-8	B-7	98	66	66	103	36	69	64
320-22766-9	B-8	101	83	90	107	61	88	94
320-22766-10	B-9	104	86	83	108	66	94	94
320-22766-11	B-10	107	54	55	109	45	52	55
320-22766-12	B-11	99	89	87	103	62	94	94
320-22766-13	EQUIPMENT BLANK	100	80	72	101	100	98	114
LCS 320-133422/2-A	Lab Control Sample	100	101	110	104	109	106	108
LCSD 320-133422/3-A	Lab Control Sample Dup	104	106	109	107	114	108	109
MB 320-133422/1-A	Method Blank	97	105	112	97	106	100	104

**Surrogate Legend**

- <sup>18</sup>O2 PFHxS = <sup>18</sup>O2 PFHxS
- <sup>13</sup>C4-PFHpA = <sup>13</sup>C4-PFHpA
- <sup>13</sup>C4 PFOA = <sup>13</sup>C4 PFOA
- <sup>13</sup>C4 PFOS = <sup>13</sup>C4 PFOS
- <sup>13</sup>C4 PFBA = <sup>13</sup>C4 PFBA
- <sup>13</sup>C2 PFHxA = <sup>13</sup>C2 PFHxA
- <sup>13</sup>C5 PFPeA = <sup>13</sup>C5 PFPeA

# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Method: 537 (modified) - Perfluorinated Hydrocarbons

**Lab Sample ID: MB 320-133422/1-A**

**Matrix: Water**

**Analysis Batch: 134487**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 133422**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	<0.92		2.0	0.92	ng/L		10/19/16 15:23	10/25/16 21:49	1
Perfluorobutanoic acid (PFBA)	<0.46		2.0	0.46	ng/L		10/19/16 15:23	10/25/16 21:49	1
Perfluorohexanesulfonic acid (PFHxS)	<0.87		2.0	0.87	ng/L		10/19/16 15:23	10/25/16 21:49	1
Perfluoropentanoic acid (PFPeA)	<0.99		2.0	0.99	ng/L		10/19/16 15:23	10/25/16 21:49	1
Perfluoroheptanoic acid (PFHpA)	<0.80		2.0	0.80	ng/L		10/19/16 15:23	10/25/16 21:49	1
Perfluorohexanoic acid (PFHxA)	<0.79		2.0	0.79	ng/L		10/19/16 15:23	10/25/16 21:49	1
Perfluorooctanoic acid (PFOA)	<0.75		2.0	0.75	ng/L		10/19/16 15:23	10/25/16 21:49	1
Perfluorooctanesulfonic acid (PFOS)	<1.3		2.0	1.3	ng/L		10/19/16 15:23	10/25/16 21:49	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	97		25 - 150	10/19/16 15:23	10/25/16 21:49	1
13C4-PFHpA	105		25 - 150	10/19/16 15:23	10/25/16 21:49	1
13C4 PFOA	112		25 - 150	10/19/16 15:23	10/25/16 21:49	1
13C4 PFOS	97		25 - 150	10/19/16 15:23	10/25/16 21:49	1
13C4 PFBA	106		25 - 150	10/19/16 15:23	10/25/16 21:49	1
13C2 PFHxA	100		25 - 150	10/19/16 15:23	10/25/16 21:49	1
13C5 PFPeA	104		25 - 150	10/19/16 15:23	10/25/16 21:49	1

**Lab Sample ID: LCS 320-133422/2-A**

**Matrix: Water**

**Analysis Batch: 134487**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 133422**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanesulfonic acid (PFBS)	35.4	40.5		ng/L		115	55 - 147
Perfluorobutanoic acid (PFBA)	40.0	44.8		ng/L		112	74 - 138
Perfluorohexanesulfonic acid (PFHxS)	36.4	38.1		ng/L		105	58 - 138
Perfluoropentanoic acid (PFPeA)	40.0	39.9		ng/L		100	69 - 134
Perfluoroheptanoic acid (PFHpA)	40.0	41.7		ng/L		104	63 - 135
Perfluorohexanoic acid (PFHxA)	40.0	40.9		ng/L		102	70 - 136
Perfluorooctanoic acid (PFOA)	40.0	39.8		ng/L		100	63 - 141
Perfluorooctanesulfonic acid (PFOS)	37.1	37.1		ng/L		100	47 - 162

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
18O2 PFHxS	100		25 - 150
13C4-PFHpA	101		25 - 150
13C4 PFOA	110		25 - 150
13C4 PFOS	104		25 - 150
13C4 PFBA	109		25 - 150
13C2 PFHxA	106		25 - 150
13C5 PFPeA	108		25 - 150

TestAmerica Sacramento

# QC Sample Results

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Method: 537 (modified) - Perfluorinated Hydrocarbons (Continued)

**Lab Sample ID: LCSD 320-133422/3-A**

**Matrix: Water**

**Analysis Batch: 134487**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 133422**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanesulfonic acid (PFBS)	35.4	39.4		ng/L		111	55 - 147	3	30
Perfluorobutanoic acid (PFBA)	40.0	42.7		ng/L		107	74 - 138	5	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.3		ng/L		100	58 - 138	5	30
Perfluoropentanoic acid (PFPeA)	40.0	39.0		ng/L		98	69 - 134	2	30
Perfluoroheptanoic acid (PFHpA)	40.0	40.1		ng/L		100	63 - 135	4	30
Perfluorohexanoic acid (PFHxA)	40.0	40.6		ng/L		102	70 - 136	1	30
Perfluorooctanoic acid (PFOA)	40.0	40.7		ng/L		102	63 - 141	2	30
Perfluorooctanesulfonic acid (PFOS)	37.1	36.5		ng/L		98	47 - 162	1	30

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
18O2 PFHxS	104		25 - 150
13C4-PFHpA	106		25 - 150
13C4 PFOA	109		25 - 150
13C4 PFOS	107		25 - 150
13C4 PFBA	114		25 - 150
13C2 PFHxA	108		25 - 150
13C5 PFPeA	109		25 - 150

# QC Association Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## LCMS

### Prep Batch: 133422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-22766-1	B-1	Total/NA	Water	3535	
320-22766-2	B-2	Total/NA	Water	3535	
320-22766-3	B-3	Total/NA	Water	3535	
320-22766-3 - DL	B-3	Total/NA	Water	3535	
320-22766-4	B-4	Total/NA	Water	3535	
320-22766-4 - DL	B-4	Total/NA	Water	3535	
320-22766-5	B-4 DUP	Total/NA	Water	3535	
320-22766-5 - DL	B-4 DUP	Total/NA	Water	3535	
320-22766-6 - DL	B-5	Total/NA	Water	3535	
320-22766-6	B-5	Total/NA	Water	3535	
320-22766-7	B-6	Total/NA	Water	3535	
320-22766-7 - RA	B-6	Total/NA	Water	3535	
320-22766-8	B-7	Total/NA	Water	3535	
320-22766-9	B-8	Total/NA	Water	3535	
320-22766-10	B-9	Total/NA	Water	3535	
320-22766-11	B-10	Total/NA	Water	3535	
320-22766-12	B-11	Total/NA	Water	3535	
320-22766-13	EQUIPMENT BLANK	Total/NA	Water	3535	
MB 320-133422/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-133422/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-133422/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

### Analysis Batch: 134487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-22766-1	B-1	Total/NA	Water	537 (modified)	133422
320-22766-2	B-2	Total/NA	Water	537 (modified)	133422
320-22766-3	B-3	Total/NA	Water	537 (modified)	133422
320-22766-4	B-4	Total/NA	Water	537 (modified)	133422
320-22766-5	B-4 DUP	Total/NA	Water	537 (modified)	133422
320-22766-6	B-5	Total/NA	Water	537 (modified)	133422
320-22766-7	B-6	Total/NA	Water	537 (modified)	133422
320-22766-8	B-7	Total/NA	Water	537 (modified)	133422
320-22766-9	B-8	Total/NA	Water	537 (modified)	133422
320-22766-10	B-9	Total/NA	Water	537 (modified)	133422
320-22766-11	B-10	Total/NA	Water	537 (modified)	133422
320-22766-12	B-11	Total/NA	Water	537 (modified)	133422
320-22766-13	EQUIPMENT BLANK	Total/NA	Water	537 (modified)	133422
MB 320-133422/1-A	Method Blank	Total/NA	Water	537 (modified)	133422
LCS 320-133422/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	133422
LCSD 320-133422/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	133422

### Analysis Batch: 134710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-22766-3 - DL	B-3	Total/NA	Water	537 (modified)	133422
320-22766-4 - DL	B-4	Total/NA	Water	537 (modified)	133422
320-22766-5 - DL	B-4 DUP	Total/NA	Water	537 (modified)	133422
320-22766-6 - DL	B-5	Total/NA	Water	537 (modified)	133422
320-22766-7 - RA	B-6	Total/NA	Water	537 (modified)	133422

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# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Client Sample ID: B-1

Date Collected: 10/13/16 14:50

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-1

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			256.1 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 22:12	SBC	TAL SAC

## Client Sample ID: B-2

Date Collected: 10/13/16 16:20

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-2

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			248.8 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 22:19	SBC	TAL SAC

## Client Sample ID: B-3

Date Collected: 10/13/16 15:45

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-3

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			274.7 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 22:27	SBC	TAL SAC
Total/NA	Prep	3535	DL		274.7 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)	DL	100			134710	10/26/16 18:18	SBC	TAL SAC

## Client Sample ID: B-4

Date Collected: 10/14/16 11:20

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-4

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			261 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 22:34	SBC	TAL SAC
Total/NA	Prep	3535	DL		261 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10			134710	10/26/16 18:56	SBC	TAL SAC

## Client Sample ID: B-4 DUP

Date Collected: 10/14/16 11:30

Date Received: 10/18/16 09:40

## Lab Sample ID: 320-22766-5

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			258.3 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 22:42	SBC	TAL SAC
Total/NA	Prep	3535	DL		258.3 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)	DL	10			134710	10/26/16 19:03	SBC	TAL SAC

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# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Client Sample ID: B-5

## Lab Sample ID: 320-22766-6

Date Collected: 10/14/16 11:00

Matrix: Water

Date Received: 10/18/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			265.2 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 22:49	SBC	TAL SAC
Total/NA	Prep	3535	DL		265.2 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)	DL	100			134710	10/26/16 18:26	SBC	TAL SAC

## Client Sample ID: B-6

## Lab Sample ID: 320-22766-7

Date Collected: 10/14/16 10:15

Matrix: Water

Date Received: 10/18/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			255.6 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 22:57	SBC	TAL SAC
Total/NA	Prep	3535	RA		255.6 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)	RA	1			134710	10/26/16 20:11	SBC	TAL SAC

## Client Sample ID: B-7

## Lab Sample ID: 320-22766-8

Date Collected: 10/14/16 09:15

Matrix: Water

Date Received: 10/18/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			271.5 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 23:34	SBC	TAL SAC

## Client Sample ID: B-8

## Lab Sample ID: 320-22766-9

Date Collected: 10/14/16 09:50

Matrix: Water

Date Received: 10/18/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			240.9 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 23:42	SBC	TAL SAC

## Client Sample ID: B-9

## Lab Sample ID: 320-22766-10

Date Collected: 10/13/16 13:50

Matrix: Water

Date Received: 10/18/16 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			256.9 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 23:49	SBC	TAL SAC

# Lab Chronicle

Client: Short Elliott Hendrickson, Inc. dba SEH  
 Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

**Client Sample ID: B-10**

**Lab Sample ID: 320-22766-11**

**Date Collected: 10/13/16 13:20**

**Matrix: Water**

**Date Received: 10/18/16 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			252.8 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/25/16 23:57	SBC	TAL SAC

**Client Sample ID: B-11**

**Lab Sample ID: 320-22766-12**

**Date Collected: 10/13/16 12:00**

**Matrix: Water**

**Date Received: 10/18/16 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			244.6 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/26/16 00:04	SBC	TAL SAC

**Client Sample ID: EQUIPMENT BLANK**

**Lab Sample ID: 320-22766-13**

**Date Collected: 10/14/16 11:45**

**Matrix: Water**

**Date Received: 10/18/16 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			265.7 mL	0.5 mL	133422	10/19/16 15:23	JER	TAL SAC
Total/NA	Analysis	537 (modified)		1			134487	10/26/16 00:12	SBC	TAL SAC

**Laboratory References:**

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

# Certification Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

## Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Oregon	NELAP	10	4040	01-29-17

- 1
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# Method Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

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

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**Protocol References:**

EPA = US Environmental Protection Agency

**Laboratory References:**

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

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# Sample Summary

Client: Short Elliott Hendrickson, Inc. dba SEH  
Project/Site: Former Fire Training Pit #2, Fort McCoy

TestAmerica Job ID: 320-22766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-22766-1	B-1	Water	10/13/16 14:50	10/18/16 09:40
320-22766-2	B-2	Water	10/13/16 16:20	10/18/16 09:40
320-22766-3	B-3	Water	10/13/16 15:45	10/18/16 09:40
320-22766-4	B-4	Water	10/14/16 11:20	10/18/16 09:40
320-22766-5	B-4 DUP	Water	10/14/16 11:30	10/18/16 09:40
320-22766-6	B-5	Water	10/14/16 11:00	10/18/16 09:40
320-22766-7	B-6	Water	10/14/16 10:15	10/18/16 09:40
320-22766-8	B-7	Water	10/14/16 09:15	10/18/16 09:40
320-22766-9	B-8	Water	10/14/16 09:50	10/18/16 09:40
320-22766-10	B-9	Water	10/13/16 13:50	10/18/16 09:40
320-22766-11	B-10	Water	10/13/16 13:20	10/18/16 09:40
320-22766-12	B-11	Water	10/13/16 12:00	10/18/16 09:40
320-22766-13	EQUIPMENT BLANK	Water	10/14/16 11:45	10/18/16 09:40



10F2

TestAmerica Sacramento  
880 Riverside Parkway  
West Sacramento, CA 95605  
Phone (916) 373-5600 Fax (916) 372-1059

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

### Chain of Custody Record

<b>Client Information</b> Company: Short Elliott Hendrickson, Inc. dba SEH Address: 10 North Bridge Street City: Chippewa Falls State, Zip: WI, 54729-3374 Phone: _____ Email: mrohlik@sehinc.com Project Name: Former Fire Training Pit #2, Fort McCoy Site: _____		Sampler: Mike Rohlik Lab PM: Cesar Cortes Phone: 715-271-1059 E-Mail: mrohlik@sehinc.com		COC No: 320-13029-2988.1 Page: Page 1 of 2 Job #: _____			
<b>Due Date Requested:</b> TAT Requested (days): _____ PO #: _____ WO #: _____ Project #: _____ SSOW#: _____		<b>Analysis Requested</b> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Total Number of Containers: _____					
<b>Sample Identification</b> Sample ID: B-1 Sample ID: B-2 Sample ID: B-3 Sample ID: B-4 Sample ID: B-4 Dup Sample ID: B-5 Sample ID: B-6 Sample ID: B-7 Sample ID: B-8 Sample ID: B-9 Sample ID: B-10		Sample Date 10/13/16 ↓ ↑ 10/14/16 ↓ ↑ 10/13/16	Sample Time 2:50 4:20 3:45 11:20 11:30 10:15 9:15 9:50 1:50 1:20	Sample Type (C=Comp, G=grab) G ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Matrix (W=Water, S=solid, O=Other, T=tissue, A=Air) Water Water Water Water Water Water Water Water Water Water Water Water Water	Preservation Code: G ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	Special Instructions/Note: EPA Method 53 (modified)
<b>Possible Hazard Identification</b> <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		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
<b>Deliverable Requested:</b> I, II, III, IV, Other (specify) _____		<b>Special Instructions/QC Requirements:</b> _____					
<b>Empty Kit Relinquished by:</b> _____ Date: 10/17/16		<b>Method of Shipment:</b> _____ Date/Time: 10/18/16 09:40 Company: Compas					
<b>Relinquished by:</b> _____ Date/Time: _____ Company: _____		<b>Received by:</b> _____ Date/Time: _____ Company: _____					
<b>Relinquished by:</b> _____ Date/Time: _____ Company: _____		<b>Received by:</b> _____ Date/Time: _____ Company: _____					
<b>Custody Seals Intact:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Cooler Temperature(s) °C and Other Remarks:</b> 0.2°C ice					









STATEMENT OF WORK

Contract No. W911SA-15-D-0016

FORMER FIRE TRAINING BURN PIT #2  
Fort McCoy, WI

*Robert*

1. GENERAL PROJECT INFORMATION

**Project Name:** Former Fire Training Burn Pit #2, Fort McCoy WI  
**Work Order Number:** NA

2. SCOPE OF AE SERVICES:

Provide groundwater sampling and analysis for eight perfluorinated surfactant compounds at Former Fire Training Burn Pit #2 located adjacent to the north-south runway at the Fort McCoy Airfield Figure 1. The purpose of the work is to determine if residual concentrations of perfluorinated surfactants are present in groundwater due to the former use of Aqueous Film Forming Foam (AFFF) for training in extinguishing fires at the former fire training pit.

3. PROJECT REQUIREMENTS:

General Requirements:

13

The project requires collection of 11 groundwater samples, utilizing direct push technology, from the locations shown on Figure 2, at the approximate coordinates listed on Table 1 (to the nearest meter, if utilities allow). Each sample will be analyzed for the following eight perfluorinated surfactant parameters: perfluorobutanoic acid (PFBA), perfluoropentanoic acid (PFPeA), perfluorohexanoic acid (PFHxA), perfluoroheptanoic acid (PFHpA), perfluorooctanoic acid (PFOA), perfluorobutanesulfonate (PFBS), perfluorohexanesulfonate (PFHxS), and perfluorooctanesulfonate (PFOS).

*EPA Method 537 (and Fed)*

Specific Requirements:

The contractor shall contact Diggers Hotline (800-242-8511) to have the site marked prior to conducting work.

The contractor shall coordinate all work with the Fort McCoy Airfield (Mr. James Hubbard 608-388-4207) to schedule the work on days when the north-south runway can be shutdown. The coordination shall be at least two weeks in advance of any field work.

Utilizing direct push technology, the contractor shall collect groundwater samples from the 11 locations shown on Figure 2, at the approximate coordinates shown on Table 1. In addition, the Contractor shall collect one duplicate sample from Boring 4, and one equipment blank. The duplicate and equipment blank will also be analyzed for perfluorinated surfactants. No soil samples will be collected either for boring logs or for chemical analyses. Each groundwater sample will be collected utilizing the United States Environmental Protection Agency (USEPA)

# Login Sample Receipt Checklist

Client: Short Elliott Hendrickson, Inc. dba SEH

Job Number: 320-22766-1

**Login Number: 22766**  
**List Number: 1**  
**Creator: Nelson, Kym D**

**List Source: TestAmerica Sacramento**

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.	N/A	
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	



**ATTACHMENT 2**  
**BORING LOGS AND ABANDONMENT FORMS**

**BORING LOGS FTBP2**

**OCTOBER 2016**

Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Revelpment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number	Boring Number <i>B-1</i>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name:		Date Drilling Started <i>10, 13, 2016</i> m m d d y y y y	Date Drilling Completed <i>10, 13, 2016</i> m m d d y y y y
Firm: <i>On-site Environmental Services Inc.</i>		Drilling Method <i>Hydraulic Push</i>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL
			Surface Elevation Feet MSL
			Borehole Diameter <i>2</i> inches
Local Grid Origin <input type="checkbox"/> (estimated) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane <u>N</u> , <u>E</u>		Lat <u>0</u> ' " <u>0</u> "	
<u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>16</u> , T <u>17</u> N, R <u>3</u> W		Long <u>0</u> ' " <u>0</u> "	
Facility ID		County	County Code
			Civil Town/City/ or Village

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	<i>4 inches Dark Brown sandy loessil</i>											
			2	<i>Dark Dark Brown, medium grained sand</i>											
			3												
			4												
			5	<i>light Brown, medium grained sand</i>											
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15	<i>End of Boring 15ft</i>											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm *[Signature]*

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelpment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number	Boring Number <i>B-2</i>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: <i>On-site Environmental Services Inc.</i>		Date Drilling Started <i>10/13/2016</i> m m d d y y y y	Date Drilling Completed <i>10/13/2016</i> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <i>Hydrule Push</i>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
State Plane N, E		Local Grid Location	
SW 1/4 of SW 1/4 of Section 16, T 17 N, R 3 W		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County	County Code	Civil Town/City/ or Village

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	5 inches Dark Brown, sandy topsoil											
			2	22 inches Dark Brown, medium grained sand	80										
			3												
			4	light Brown, medium grained sand											
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
				End of Boring at 15 ft											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Mark R. ...* Firm *SEA*

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelopment  Other

Page 1 of 1

Facility/Project Name <u>Former Fire Training Pit #2, Ft McCoy</u>		License/Permit/Monitoring Number		Boring Number <u>B-3</u>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: <u>On-site Environmental Services Inc.</u>		Date Drilling Started <u>10/13/2016</u> m m d d y y y y	Date Drilling Completed <u>10/13/2016</u> m m d d y y y y	Drilling Method <u>Hydraulic Push</u>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <u>2</u> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>16</u> , T <u>17</u> N, R <u>3</u> W			Lat <u>0</u> ' " <input type="checkbox"/> N <input type="checkbox"/> E Long <u>0</u> ' " <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID	County	County Code	Civil Town/City/ or Village		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	4 inches of Dark Brown Topsoil											
			2	20 inches of Dark Brown Medium-grained Sand											
			3												
			4	light Brown, medium grained sand											
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
				End of Boring at 15 ft											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature [Signature] Firm SEH

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Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Revelpment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number		Boring Number <i>B-4</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: <i>On-site Environmental Services Inc.</i>		Date Drilling Started <i>10, 13, 2016</i> m m d d y y y y	Date Drilling Completed <i>10, 13, 2016</i> m m d d y y y y	Drilling Method <i>Hydraulic Push</i>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane <u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>16</u> , T. <u>17</u> N, R. <u>3</u> W			Local Grid Location Lat <u>0</u> ' <u>0</u> " <input type="checkbox"/> N <input type="checkbox"/> E Long <u>0</u> ' <u>0</u> " <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID	County	County Code	Civil Town/City/ or Village		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
			1	<i>14 inches light Brown, medium grained sand</i>										
			2	<i>6 inch Dark Brown, medium grained sand</i>										
			3	<i>light Brown, medium grained sand</i>	<i>8.2</i>									
		4												
		5												
		6												
			7											
			8											
			9											
			10											
			11											
			12											
			13											
			14											
			15	<i>End of Boring @ 15ft</i>										

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature *[Signature]* Firm *SEA*

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Route To: Watershed/Wastewater  Waste Management   
Remediation/Revelpment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number		Boring Number <i>B-5</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: <i>On-site Environmental Services Inc.</i>		Date Drilling Started <i>10/1/2016</i> m m d d y y y y	Date Drilling Completed <i>10/13/2016</i> m m d d y y y y	Drilling Method <i>Hydraulic Push</i>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <i>2</i> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane <u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>16</u> , T <u>17</u> N, R <u>3W</u>			Lat <u>0</u> ' " <input type="checkbox"/> N <input type="checkbox"/> E Long <u>0</u> ' " <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID	County	County Code	Civil Town/City/ or Village		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	14 inches Light Brown, medium grain sand											
			2	4 inches Dark Brown, medium grained sand											
			3												
			4	light Brown medium grained sand											
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15	End of Boring 156'											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Mike Robble* Firm *SEA*

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Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Revelopment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number	Boring Number <i>B-6</i>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: <i>On-site Environmental Services Inc.</i>		Date Drilling Started <i>10, 13, 2016</i> m m d d y y y y	Date Drilling Completed <i>10, 13, 2016</i> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <i>Hydraulic Push</i>
Final Static Water Level Feet MSL		Surface Elevation Feet MSL	Borehole Diameter <i>2</i> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Local Grid Location	
State Plane <u>SW</u> <input type="checkbox"/> N, <input type="checkbox"/> E		Lat <u>0</u> ' <u>00</u> "	
<u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>16</u> , T <u>17</u> N, R <u>3W</u>		Long <u>0</u> ' <u>00</u> "	
Feet <input type="checkbox"/> S _____ Feet <input type="checkbox"/> W _____			
Facility ID	County	County Code	Civil Town/City/ or Village

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	6 inches Dark Brown, Topsoil											
			2	14 inches of Dark Brown, medium grained sand											
			3	Light Brown, medium grained sand	Btt										
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15	End of Boring @ 15ft											

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature *[Signature]* Firm *SEA*

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Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Revelpment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number	Boring Number <i>B-7</i>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: <i>On-site Environmental Services Inc.</i>		Date Drilling Started <i>10/13/2016</i> m m d d y y y y	Date Drilling Completed <i>10/13/2016</i> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <i>Hydraulic Push</i>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
State Plane <u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>16</u> , T <u>17</u> N, R <u>3W</u>		Borehole Diameter <u>2</u> inches	
Local Grid Location State Plane <u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>16</u> , T <u>17</u> N, R <u>3W</u>		Local Grid Location Lat <u>0</u> ' " <input type="checkbox"/> N <input type="checkbox"/> E Long <u>0</u> ' " <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County	County Code	Civil Town/City/ or Village

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	2 inches Dark Brown, Topsoil											
			2	14 inches Dark Brown, Medium grained Sand											
			3												
			4	Light Brown medium grained Sand											
			5												
			6												
			7												
			8		8A										
			9												
			10												
			11												
			12												
			13												
			14												
			15	End of Boring @ 15 ft											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm *SEA*

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Revelpment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number	Boring Number <i>B-8</i>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: <i>On-site Environmental Services Inc.</i>		Date Drilling Started <i>10/13/2016</i> m m d d y y y y	Date Drilling Completed <i>10/13/2016</i> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <i>Hydraulic Push</i>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
State Plane N, E		Borehole Diameter <i>2</i> inches	
SW 1/4 of SW 1/4 of Section <i>16</i> , T <i>17</i> N, R <i>3W</i>		Local Grid Location Feet N, S, E, W	
Facility ID		County	County Code
		Civil Town/City/ or Village	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	2 inches Dark Brown, Topsoil											
			2	10 inches Dark Brown, medium grain sand											
			3												
			4	light Brown, medium grain sand											
			5												
			6												
			7												
			8												
			9												
			10		10.4										
			11												
			12												
			13												
			14												
			15	End of Boring @ 15ft											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm *SEAT*

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Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Revelopment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number		Boring Number <i>B-9</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: <i>On-site Environmental Services Inc.</i>		Date Drilling Started <i>10/13/2016</i> m m d d y y y y	Date Drilling Completed <i>10/13/2016</i> m m d d y y y y	Drilling Method <i>Hydraulic Push</i>	
WI Unique Well No.	DNR Well ID No.	Well Name		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		State Plane <u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>16</u> , T <u>17</u> N, R <u>3W</u>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County	County Code	Civil Town/City/ or Village	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	<i>2 inches Dark Brown Topsoil</i>											
			2	<i>light Brown, medium grain. red Sand</i>	<i>stk</i>										
			3												
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15												
				<i>End of Boring @ 15ft</i>											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Mike Hubler* Firm *SEA*

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Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Revelopment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number		Boring Number <i>B-10</i>	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: <i>On-site Environmental Services Inc.</i>		Date Drilling Started <i>10/13/2016</i> m m d d y y y y	Date Drilling Completed <i>10/13/2016</i> m m d d y y y y	Drilling Method <i>Hydraulic Push</i>	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter <i>2</i> inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/> State Plane _____ N, _____ E			Local Grid Location Lat _____ " _____" Long _____ " _____"		
SW 1/4 of SW 1/4 of Section <i>16</i> , T <i>17</i> N, R <i>3W</i>		County _____ County Code _____ Civil Town/City/ or Village _____			
Facility ID _____		County _____			

Sample Number and Type	Length An. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	<i>Light Brown, fine grained sand some silt</i>											
			2	<i>Dark Brown, fine grained sand</i>											
			3	<i>Light Brown, fine grained sand</i>											
			4												
			5												
			6												
			7												
			8												
			9												
			10												
			11												
			12												
			13												
			14												
			15	<i>End of Boring @ 15ft</i>											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *[Signature]* Firm *SEA*

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Route To:  Watershed/Wastewater  Waste Management   
 Remediation/Revelopment  Other

Page 1 of 1

Facility/Project Name <i>Former Fire Training Pit #2, Ft McCoy</i>		License/Permit/Monitoring Number	Boring Number <i>B-11</i>
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Last Name: Firm: <i>On-site Environmental Services Inc.</i>		Date Drilling Started <i>10/13/2016</i> m m d d y y y y	Date Drilling Completed <i>10/13/2016</i> m m d d y y y y
WI Unique Well No.	DNR Well ID No.	Well Name	Drilling Method <i>Hydraulic Push</i>
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/> ) or Boring Location <input type="checkbox"/>		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
State Plane <u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>16</u> , T <u>17</u> N, R <u>3</u> W		Borehole Diameter <u>2</u> inches	
Local Grid Location State Plane <u>N</u> , <u>E</u> Lat <u>0</u> ' <u>"</u> Long <u>0</u> ' <u>"</u>		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID	County	County Code	Civil Town/City/ or Village

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
			1	<i>A 3 inches Dark Brown, medium grained sand</i>											
			2	<i>B 48 inches Dark Brown, fine grained sand</i>											
			3												
			4												
			5												
			6	<i>light Brown, fine grained sand</i>											
			7												
			8		<i>8ft</i>										
			9												
			10												
			11												
			12												
			13												
			14												
			15	<i>End of Boring @ 15ft</i>											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature <i>[Signature]</i>	Firm <i>SES</i>
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**BOREHOLE ABANDONMENT FORMS FTBP2**

**OCTOBER 2016**

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Monroe</b>		WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Fort McCoy</b>	
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS) _____	
1/4 / 1/4 or Gov't Lot #	Section	Township <b>N</b>	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring # _____	
Well Street Address <b>6058 Hanger Way</b>				Original Well Owner _____	
Well City, Village or Town <b>Sparta, WI</b>				Present Well Owner _____	
Subdivision Name				Well ZIP Code _____	
Reason for Removal from Service				Mailing Address of Present Owner _____	
WI Unique Well # of Replacement Well _____				City of Present Owner	
				State	
				ZIP Code	

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Monitoring Well  
 Water Well  
 Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)  
**10/13/2016**

If a Well Construction Report is available, please attach.

Construction Type:

Drilled       Driven (Sandpoint)       Dug  
 Other (specify): Direct Push

Formation Type:

Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.)      Casing Diameter (in.)

**15**      \_\_\_\_\_

Lower Drillhole Diameter (in.)      Casing Depth (ft.)

**2.5**      \_\_\_\_\_

Was well annular space grouted?       Yes       No       Unknown

If yes, to what depth (feet)?      Depth to Water (feet)

\_\_\_\_\_      \_\_\_\_\_

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			

Required Method of Placing Sealing Material

Conductor Pipe-Gravity       Conductor Pipe-Pumped  
 Screened & Poured (Bentonite Chips)       Other (Explain): \_\_\_\_\_

Sealing Materials

Neat Cement Grout       Concrete  
 Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips       Bentonite - Cement Grout  
 Granular Bentonite       Bentonite - Sand Slurry

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15	25#	

**6. Comments**

Boring Name - B-1

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>On-site Environmental Services, Inc.</b>	License # _____	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/13/2016</b>	Date Received	Noted By
Street or Route <b>PO Box 280</b>	Telephone Number <b>( 608 ) 837-8992</b>	Comments		
City <b>Sun Prairie</b>	State <b>WI</b>	ZIP Code <b>53590</b>	Signature of Person Doing Work <i>Anthony R. Kapugi</i>	Date Signed <b>11/16/2016</b>

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**

County <b>Monroe</b>	WI Unique Well # of Removed Well	Hicap #
Latitude / Longitude (see instructions) N W	Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 1/4 or Gov't Lot #	Section	Township N
Well Street Address <b>6058 Hanger Way</b>	Well ZIP Code	Range <input type="checkbox"/> E <input type="checkbox"/> W
Well City, Village or Town <b>Sparta, WI</b>	Subdivision Name	Lot #
Reason for Removal from Service	WI Unique Well # of Replacement Well	

**2. Facility / Owner Information**

Facility Name <b>Fort McCoy</b>		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>10/13/2016</b>
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Direct Push</b>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) <b>15</b>	Casing Diameter (in.)
Lower Drillhole Diameter (in.) <b>2.5</b>	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain):	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

**5. Material Used to Fill Well / Drillhole**

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15	25#	

**6. Comments**

**Boring Name B-2**

**7. Supervision of Work**

Name of Person or Firm Doing Filling & Sealing <b>Mike Rohrk</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/14/2016</b>	DNR Use Only	
Street or Route <b>10 North Bridge St.</b>	Telephone Number <b>(715) 271-1059</b>	Comments	Date Received	Noted By
City <b>Chippewa Falls</b>	State <b>WI</b>	ZIP Code <b>54729</b>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <b>11/22/2016</b>

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Monroe</b>		WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 / 1/4 or Gov't Lot #	Section	Township <b>N</b>	Range <input type="checkbox"/> E <input type="checkbox"/> W
Well Street Address <b>6058 Hanger Way</b>			
Well City, Village or Town <b>Sparta, WI</b>		Well ZIP Code	
Subdivision Name		Lot #	
Reason for Removal from Service		WI Unique Well # of Replacement Well _____	

Facility Name <b>Fort McCoy</b>		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>10/13/2016</b>
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>Direct Push</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) <b>15</b>	Casing Diameter (in.)
Lower Drillhole Diameter (in.) <b>2.5</b>	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15	25#	

**6. Comments**

Boring Name - B-3

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>On-site Environmental Services, Inc.</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/13/2016</b>	Date Received	Noted By
Street or Route <b>PO Box 280</b>		Telephone Number <b>( 608 ) 837-8992</b>	Comments	
City <b>Sun Prairie</b>	State <b>WI</b>	ZIP Code <b>53590</b>	Signature of Person Doing Work <i>Anthony R. Kapugi</i>	Date Signed <b>11/16/2016</b>

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:  
 Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information			
County <b>Monroe</b>		WI Unique Well # of Removed Well		Hicap #		Facility Name <b>Fort McCoy</b>	
Latitude / Longitude (see instructions)		Format Code		Method Code		Facility ID (FID or PWS)	
N W		<input type="checkbox"/> DD <input type="checkbox"/> DDM		<input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		License/Permit/Monitoring #	
1/4 1/4 or Gov't Lot #		Section		Township		Range <input type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address <b>6058 Hanger Way</b>				Original Well Owner			
Well City, Village or Town <b>Sparta, WI</b>				Present Well Owner			
Subdivision Name				Well ZIP Code		Mailing Address of Present Owner	
Lot #				City of Present Owner		State    ZIP Code	

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
Reason for Removal from Service		WI Unique Well # of Replacement Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) <b>10/13/2016</b>		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): <b>Direct Push</b>				Did sealing material rise to surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:				Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) <b>15</b>		Casing Diameter (in.)		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) <b>2.5</b>		Casing Depth (ft.)		Required Method of Placing Sealing Material	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
If yes, to what depth (feet)?		Depth to Water (feet)		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
				Sealing Materials	
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
				<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
				For Monitoring Wells and Monitoring Well Boreholes Only:	
				<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
				<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole			
From (ft.)		To (ft.)	
<b>Surface</b>		<b>15</b>	
No. Yards, Sacks Sealant or Volume (circle one)		Mix Ratio or Mud Weight	
<b>25 #</b>			

6. Comments  
**Boring Name B-4**

7. Supervision of Work			DNR Use Only		
Name of Person or Firm Doing Filling & Sealing <b>Mike R. Kilk</b>		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/14/2016</b>	Date Received	Noted By
Street or Route <b>10 North Bridge St.</b>		Telephone Number <b>(715) 271-1054</b>		Comments	
City <b>Chippewa Falls</b>	State <b>WI</b>	ZIP Code <b>54729</b>	Signature of Person Doing Work <i>[Signature]</i>		Date Signed <b>11/22/2016</b>

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information			
County <b>Monroe</b>		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name <b>Fort McCoy</b>	
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS) _____	
1/4 or Gov't Lot # _____		Section _____		Township <b>N</b>		Range <input type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address <b>6058 Hanger Way</b>				Original Well Owner _____			
Well City, Village or Town <b>Sparta, WI</b>				Present Well Owner _____			
Subdivision Name _____				Well ZIP Code _____		Mailing Address of Present Owner _____	
Reason for Removal from Service _____				WI Unique Well # of Replacement Well _____		City of Present Owner _____	
						State _____	
						ZIP Code _____	

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) <b>10/13/2016</b>		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If a Well Construction Report is available, please attach. _____				Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Direct Push</b>				Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) <b>15</b>		Casing Diameter (in.) _____		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) <b>2.5</b>		Casing Depth (ft.) _____		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				Did sealing material rise to surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
If yes, to what depth (feet)? _____		Depth to Water (feet) _____		Did material settle after 24 hours? If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
				If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
				Required Method of Placing Sealing Material	
				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
				Sealing Materials	
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
				For Monitoring Wells and Monitoring Well Boreholes Only:	
				<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>3/8</b>	<b>Bentonite chips</b>	<b>Surface</b>	<b>15</b>
			<b>25#</b>

**6. Comments**  
**Boring Name B-5**

7. Supervision of Work			DNR Use Only		
Name of Person or Firm Doing Filling & Sealing <b>Mike Rukhik</b>		License # _____	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/14/2016</b>	Date Received _____	Noted By _____
Street or Route <b>10 North Bridge St.</b>		Telephone Number <b>(715) 271-1054</b>		Comments _____	
City <b>Chippewa Falls</b>	State <b>WI</b>	ZIP Code <b>54729</b>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <b>11/22/2016</b>	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**

County <b>Monroe</b>		WI Unique Well # of Removed Well	Hicap #
Latitude / Longitude (see instructions) N _____ W _____		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4	1/4	Section	Township
or Gov't Lot #		Range <input type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address <b>6058 Hanger Way</b>			
Well City, Village or Town <b>Sparta, WI</b>		Well ZIP Code	
Subdivision Name		Lot #	
Reason for Removal from Service		WI Unique Well # of Replacement Well	

**2. Facility / Owner Information**

Facility Name <b>Fort McCoy</b>		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>10/13/2016</b>
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type:	
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)
<input checked="" type="checkbox"/> Other (specify): <b>Direct Push</b>	<input type="checkbox"/> Dug
Formation Type:	
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock
Total Well Depth From Ground Surface (ft.) <b>15</b>	Casing Diameter (in.)
Lower Drillhole Diameter (in.) <b>2.5</b>	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Concrete
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input checked="" type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

**5. Material Used to Fill Well / Drillhole**

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>3/8 Bentonite chips</b>	Surface	<b>15</b>	<b>25 #</b>	

**6. Comments**

**Boring Name B-6**

**7. Supervision of Work**

Name of Person or Firm Doing Filling & Sealing <b>Mike R. Hill</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/14/2016</b>	DNR Use Only	
Street or Route <b>10 North Bridge St.</b>	Telephone Number <b>(715) 271-1058</b>	Comments	Date Received	Noted By
City <b>Chippewa Falls</b>	State <b>WI</b>	ZIP Code <b>54729</b>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <b>11/22/2016</b>

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:  
 Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Monroe</b>		WI Unique Well # of Removed Well		Hicap #		Facility Name <b>Fort McCoy</b>	
Latitude / Longitude (see instructions) N W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001		Facility ID (FID or PWS)	
1/4 or Gov't Lot #		Section		Township <b>N</b>		Range <input type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address <b>6058 Hanger Way</b>				Original Well Owner			
Well City, Village or Town <b>Sparta, WI</b>				Present Well Owner			
Subdivision Name				Well ZIP Code		Mailing Address of Present Owner	
Reason for Removal from Service				WI Unique Well # of Replacement Well		City of Present Owner	
						State      ZIP Code	

**3. Filled & Sealed Well / Drillhole / Borehole Information**      **4. Pump, Liner, Screen, Casing & Sealing Material**

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) <b>10/13/2016</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Pump and piping removed?	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <b>Direct Push</b>		If a Well Construction Report is available, please attach.		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed?	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) perforated?	
Total Well Depth From Ground Surface (ft.) <b>15</b>		Casing Diameter (in.)		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed?	
Lower Drillhole Diameter (in.) <b>2.5</b>		Casing Depth (ft.)		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place?	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet)		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Was casing cut off below surface?	
If yes, to what depth (feet)?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Did sealing material rise to surface?	
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours?	
				<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If yes, was hole retopped?	
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source?	
				Required Method of Placing Sealing Material	
				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
				Sealing Materials	
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
				For Monitoring Wells and Monitoring Well Boreholes Only:	
				<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

**5. Material Used to Fill Well / Drillhole**

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
<b>Surface</b>	<b>15</b>	<b>25#</b>	

**6. Comments**  
**Boring Name B-7**

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>Mike Rohlke</b>		License #		Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/14/2016</b>		Date Received		Noted By	
Street or Route <b>10 North Bridge St.</b>				Telephone Number <b>(715) 271-1058</b>		Comments			
City <b>Chippewa Falls</b>		State <b>WI</b>		ZIP Code <b>54729</b>		Signature of Person Doing Work <i>[Signature]</i>		Date Signed <b>11/22/2016</b>	



# Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

Drinking Water       Watershed/Wastewater       Remediation/Redevelopment

Waste Management       Other: \_\_\_\_\_

1. Well Location Information				2. Facility / Owner Information			
County <b>Monroe</b>		WI Unique Well # of Removed Well		Hicap #		Facility Name <b>Fort McCoy</b>	
Latitude / Longitude (see instructions)		Format Code		Method Code		Facility ID (FID or PWS)	
N		<input type="checkbox"/> DD		<input type="checkbox"/> GPS008			
W		<input type="checkbox"/> DDM		<input type="checkbox"/> SCR002			
1/4 1/4		Section		Township		License/Permit/Monitoring #	
or Gov't Lot #		N		Range		Original Well Owner	
				E		Present Well Owner	
				W		Mailing Address of Present Owner	
Well Street Address <b>6058 Hanger Way</b>				City of Present Owner			
Well City, Village or Town <b>Sparta, WI</b>				State			
Subdivision Name				ZIP Code			
Reason for Removal from Service				WI Unique Well # of Replacement Well			

3. Filled & Sealed Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole		Liner(s) perforated? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Original Construction Date (mm/dd/yyyy) <b>10/13/2016</b>		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If a Well Construction Report is available, please attach.		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Did sealing material rise to surface? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): <b>Direct Push</b>		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) <b>15</b>		Required Method of Placing Sealing Material	
Casing Diameter (in.)		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
Lower Drillhole Diameter (in.) <b>2.5</b>		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Casing Depth (ft.)		Sealing Materials	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
If yes, to what depth (feet)?		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
Depth to Water (feet)		For Monitoring Wells and Monitoring Well Boreholes Only:	
		<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15	25#	

6. Comments  
**Boring Name B-8**

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>Mike Rohlic</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/14/2016</b>	Date Received	Noted By
Street or Route <b>10 North Bridge St.</b>	Telephone Number <b>(715) 271-1054</b>	Comments		
City <b>Chippewa Falls</b>	State <b>WI</b>	ZIP Code <b>54729</b>	Signature of Person Doing Work <i>[Signature]</i>	Date Signed <b>11/22/2016</b>

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Monroe</b>		WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
1/4 / 1/4 or Gov't Lot #	Section	Township <b>N</b>	Range <input type="checkbox"/> E <input type="checkbox"/> W
Well Street Address <b>6058 Hanger Way</b>			
Well City, Village or Town <b>Sparta, WI</b>		Well ZIP Code	
Subdivision Name		Lot #	
Reason for Removal from Service	WI Unique Well # of Replacement Well _____		

Facility Name <b>Fort McCoy</b>		
Facility ID (FID or PWS)		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

**3. Filled & Sealed Well / Drillhole / Borehole Information**

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) <b>10/13/2016</b>
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>Direct Push</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) <b>15</b>	Casing Diameter (in.)
Lower Drillhole Diameter (in.) <b>2.5</b>	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet)

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15	30#	

**6. Comments**

Boring Name - B-9

**7. Supervision of Work**      **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing <b>On-site Environmental Services, Inc.</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/13/2016</b>	Date Received	Noted By
Street or Route <b>PO Box 280</b>	Telephone Number <b>( 608 ) 837-8992</b>		Comments	
City <b>Sun Prairie</b>	State <b>WI</b>	ZIP Code <b>53590</b>	Signature of Person Doing Work <i>Anthony R. Kapugi</i>	Date Signed <b>11/16/2016</b>

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Monroe</b>		WI Unique Well # of Removed Well _____	Hicap # _____	Facility Name <b>Fort McCoy</b>	
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS) _____	
1/4 / 1/4 or Gov't Lot #	1/4	Section	Township <b>N</b>	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring # _____
Well Street Address <b>6058 Hanger Way</b>			Original Well Owner _____		
Well City, Village or Town <b>Sparta, WI</b>			Present Well Owner _____		
Subdivision Name			Well ZIP Code	Mailing Address of Present Owner _____	
Reason for Removal from Service			Lot #	City of Present Owner	State    ZIP Code

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Monitoring Well  
 Water Well  
 Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)  
**10/13/2016**

If a Well Construction Report is available, please attach.

Construction Type:

Drilled       Driven (Sandpoint)       Dug  
 Other (specify): Direct Push

Formation Type:

Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.)    Casing Diameter (in.)

**16**      \_\_\_\_\_

Lower Drillhole Diameter (in.)    Casing Depth (ft.)

**2.5**      \_\_\_\_\_

Was well annular space grouted?     Yes     No     Unknown

If yes, to what depth (feet)?    Depth to Water (feet)

\_\_\_\_\_      \_\_\_\_\_

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	16	30#	

**6. Comments**

Boring Name - B-10

**7. Supervision of Work**

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>On-site Environmental Services, Inc.</b>	License # _____	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/13/2016</b>	Date Received	Noted By
Street or Route <b>PO Box 280</b>		Telephone Number <b>( 608 ) 837-8992</b>	Comments	
City <b>Sun Prairie</b>	State <b>WI</b>	ZIP Code <b>53590</b>	Signature of Person Doing Work <i>Anthony R. Kapugi</i>	Date Signed <b>11/16/2016</b>

**Notice:** Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

**Verification Only of Fill and Seal**

**Route to DNR Bureau:**

- Drinking Water       Watershed/Wastewater       Remediation/Redevelopment  
 Waste Management       Other: \_\_\_\_\_

**1. Well Location Information**      **2. Facility / Owner Information**

County <b>Monroe</b>		WI Unique Well # of Removed Well	Hicap #	Facility Name <b>Fort McCoy</b>	
Latitude / Longitude (see instructions) _____ N _____ W		Format Code <input type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	Facility ID (FID or PWS)	
1/4 / 1/4 or Gov't Lot #	Section	Township <b>N</b>	Range <input type="checkbox"/> E <input type="checkbox"/> W	License/Permit/Monitoring #	
Well Street Address <b>6058 Hanger Way</b>			Original Well Owner		
Well City, Village or Town <b>Sparta, WI</b>			Present Well Owner		
Subdivision Name			Well ZIP Code	Mailing Address of Present Owner	
Reason for Removal from Service			Lot #	City of Present Owner	State    ZIP Code
WI Unique Well # of Replacement Well			City of Present Owner		

**3. Filled & Sealed Well / Drillhole / Borehole Information**

Monitoring Well  
 Water Well  
 Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)  
**10/13/2016**

If a Well Construction Report is available, please attach.

Construction Type:

Drilled       Driven (Sandpoint)       Dug  
 Other (specify): Direct Push

Formation Type:

Unconsolidated Formation       Bedrock

Total Well Depth From Ground Surface (ft.)    Casing Diameter (in.)

**15**      \_\_\_\_\_

Lower Drillhole Diameter (in.)    Casing Depth (ft.)

**2.5**      \_\_\_\_\_

Was well annular space grouted?     Yes     No     Unknown

If yes, to what depth (feet)?    Depth to Water (feet)

\_\_\_\_\_      \_\_\_\_\_

**4. Pump, Liner, Screen, Casing & Sealing Material**

Pump and piping removed?     Yes     No     N/A  
 Liner(s) removed?     Yes     No     N/A  
 Liner(s) perforated?     Yes     No     N/A  
 Screen removed?     Yes     No     N/A  
 Casing left in place?     Yes     No     N/A  
 Was casing cut off below surface?     Yes     No     N/A  
 Did sealing material rise to surface?     Yes     No     N/A  
 Did material settle after 24 hours?     Yes     No     N/A  
     If yes, was hole retopped?     Yes     No     N/A  
 If bentonite chips were used, were they hydrated with water from a known safe source?     Yes     No     N/A

Required Method of Placing Sealing Material

Conductor Pipe-Gravity     Conductor Pipe-Pumped  
 Screened & Poured (Bentonite Chips)     Other (Explain): \_\_\_\_\_

Sealing Materials

Neat Cement Grout       Concrete  
 Sand-Cement (Concrete) Grout       Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips       Bentonite - Cement Grout  
 Granular Bentonite       Bentonite - Sand Slurry

**5. Material Used to Fill Well / Drillhole**

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Bentonite Chips	Surface	15	25#	

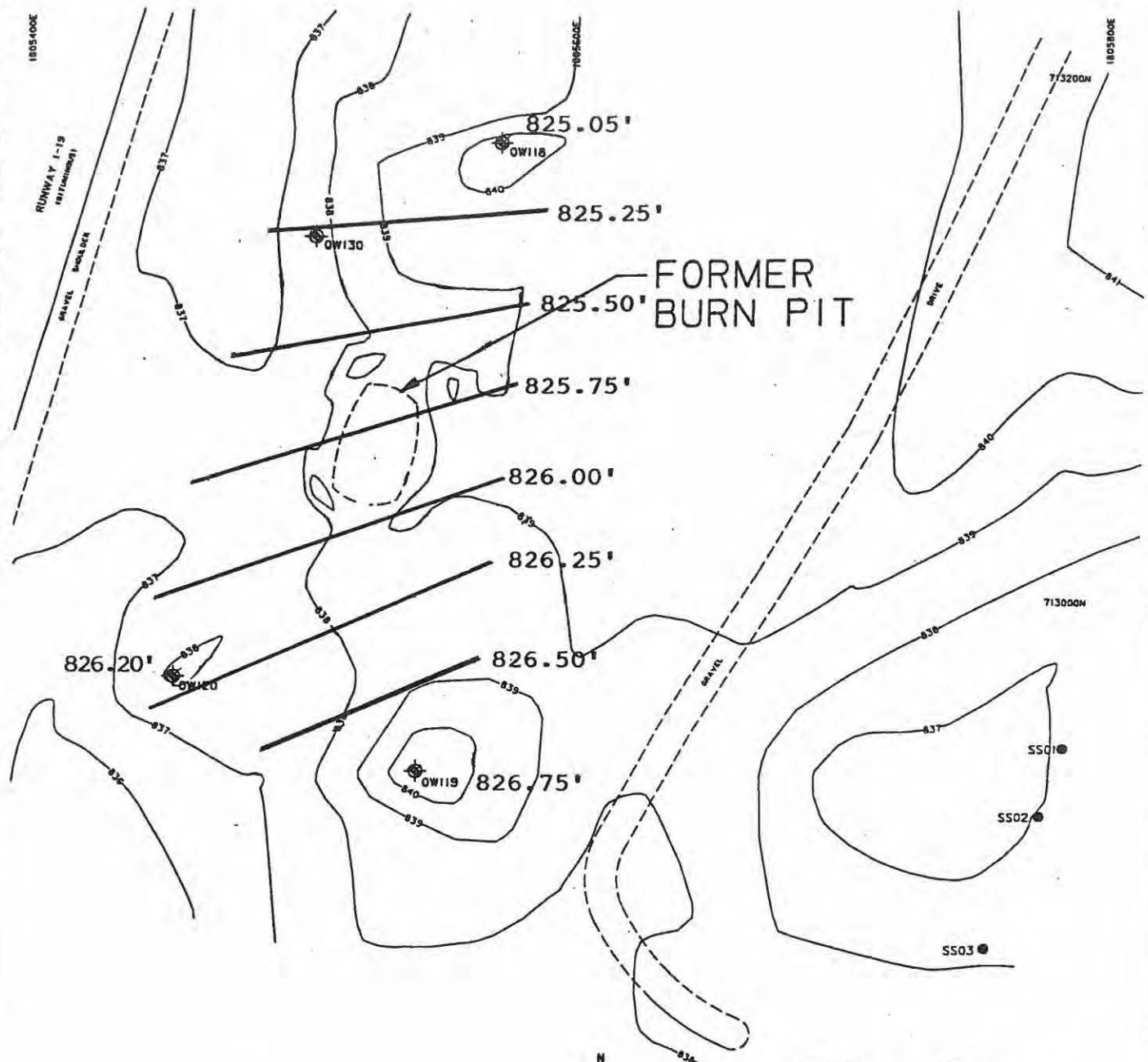
**6. Comments**

Boring Name - B-11




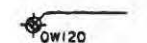
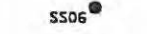
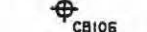
**7. Supervision of Work**

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing <b>On-site Environmental Services, Inc.</b>	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) <b>10/13/2016</b>	Date Received	Noted By
Street or Route <b>PO Box 280</b>	Telephone Number <b>( 608 ) 837-8992</b>	Comments		
City <b>Sun Prairie</b>	State <b>WI</b>	ZIP Code <b>53590</b>	Signature of Person Doing Work <i>Anthony R. Kapugi</i>	Date Signed <b>11/16/2016</b>

**ATTACHMENT 3**  
**WATER TABLE MAPS**

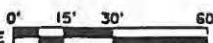


**LEGEND**

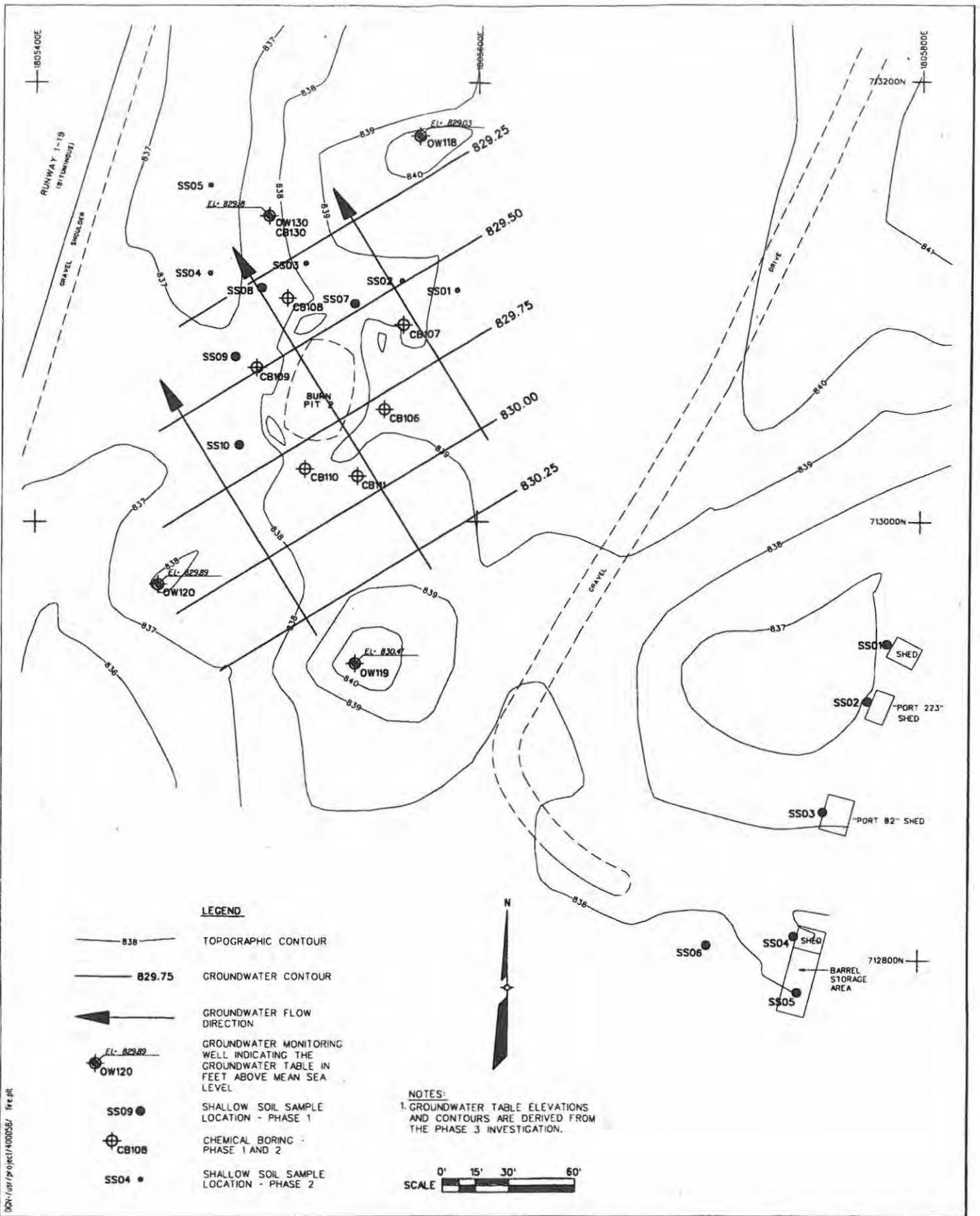
-  TOPOGRAPHIC CONTOUR
-  GROUNDWATER CONTOUR
-  GROUNDWATER FLOW DIRECTION
-  GROUNDWATER MONITORING WELL INDICATING THE GROUNDWATER TABLE IN FEET ABOVE MEAN SEA LEVEL
-  SHALLOW SOIL SAMPLE LOCATION - PHASE I
-  CHEMICAL BORING PHASE I AND 2



**NOTES:**  
 1. GROUNDWATER TABLE ELEVATIONS AND CONTOURS ARE DERIVED FROM THE RFI PHASE 3 INVESTIGATION.

SCALE 

**Note:**  
 Map changed by  
 Tim Gelhaus, AEEC  
 15-Aug-03



D:\proj\project\1002557\_frc.plt



MAY 1994

18903

FIGURE 13-2  
 FIRE TRAINING BURN PIT 2  
 SAMPLE LOCATIONS AND WATER TABLE MAP  
 FORT MCCOY RFI  
 MONROE COUNTY, WISCONSIN

**ATTACHMENT 4**  
**ANALYTICAL RESULTS FOR POTABLE WELLS**  
**AT THE FORT MCCOY AIRFIELD**



**PFC RESULTS FOR FORT MCCOY  
POTBALE WELLS  
SAMPLE 5020 IS THE WELL NORTH OF FTBP3**

# ANALYTICAL REPORT

**Client:** U S Army - EMECO (Fort McCoy)  
 Attn: Mike Miller  
 2171 South 8th Avenue  
 2IMNW-MCY-SSP-E  
 Fort McCoy, WI 54656

**NLS Project:** 270910

**NLS Customer:** 35655

**Fax:** 608 388 3136 **Phone:** 608 388 6546

**Project: Drinking Water - Method 537**

5020 NLS ID: 958672

COC: 196187:1 Matrix: DW

Collected: 11/09/16 13:00 Received: 11/11/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					11/22/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					11/17/16	EPA 537	721026460

5021 NLS ID: 958673

COC: 196187:2 Matrix: DW

Collected: 11/09/16 13:15 Received: 11/11/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					11/22/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					11/17/16	EPA 537	721026460

5024 NLS ID: 958674

COC: 196187:3 Matrix: DW

Collected: 11/09/16 10:30 Received: 11/11/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					11/22/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					11/17/16	EPA 537	721026460

5025 NLS ID: 958675

COC: 196187:4 Matrix: DW

Collected: 11/09/16 10:15 Received: 11/11/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					11/22/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					11/17/16	EPA 537	721026460

5026 NLS ID: 958676

COC: 196187:5 Matrix: DW

Collected: 11/09/16 13:15 Received: 11/11/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					11/22/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					11/17/16	EPA 537	721026460

5027 NLS ID: 958677

COC: 196187:6 Matrix: DW

Collected: 11/09/16 10:15 Received: 11/11/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					11/22/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					11/17/16	EPA 537	721026460

5028 NLS ID: 958678

COC: 196187:7 Matrix: DW

Collected: 11/09/16 10:00 Received: 11/11/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					11/22/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					11/17/16	EPA 537	721026460

**NORTHERN LAKE SERVICE, INC.**  
 Analytical Laboratory and Environmental Services  
 400 North Lake Avenue - Crandon, WI 54520  
 Ph: (715)-478-2777 Fax: (715)-478-3060

# ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460  
 WDATCP Laboratory Certification No. 105-330  
 EPA Laboratory ID No. WI00034

Printed: 11/23/16 Page 2 of 2

**Client:** U S Army - EMECO (Fort McCoy)  
 Attn: Mike Miller  
 2171 South 8th Avenue  
 2IMNW-MCY-SSP-E  
 Fort McCoy, WI 54656

**NLS Project:** 270910

**NLS Customer:** 35655

**Fax:** 608 388 3136 **Phone:** 608 388 6546

**Project:** Drinking Water - Method 537

5029 NLS ID: 958679

COC: 196187:8 Matrix: DW

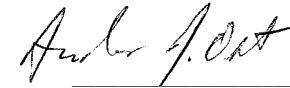
Collected: 11/09/16 09:50 Received: 11/11/16

Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached					11/22/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes					11/17/16	EPA 537	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(\*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD)    LOD = Limit of Detection    LOQ = Limit of Quantitation    NA = Not Applicable  
 DWB = Dry Weight Basis    %DWB = (mg/kg DWB) / 10000    1000 ug/L = 1 mg/L  
 MCL = Maximum Contaminant Levels for Drinking Water Samples.    Shaded results indicate >MCL.

Reviewed by:



Authorized by:  
 R. T. Krueger  
 President

**ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis**

**Customer: U S Army - EMECO (Fort McCoy) NLS Project: 270910**

**Project Description: Drinking Water - Method 537**

**Project Title: Template: 537PPT Printed: 11/23/2016 14:08**

Sample: 958672 5020 Collected: 11/09/16 Analyzed: 11/22/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	11	37		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	1.0	3.3		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	3.8	13		
perfluorooctanoic acid (PFOA)	ND	ppt	1	2.3	7.6		
perfluorononanoic acid (PFNA)	ND	ppt	1	2.3	7.7		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	3.8	13		
C13-PFHxA (SURR)	92.915%						S
C13-PFDA (SURR)	90.451%						S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 958673 5021 Collected: 11/09/16 Analyzed: 11/22/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	11	37		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	1.0	3.3		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	3.8	13		
perfluorooctanoic acid (PFOA)	ND	ppt	1	2.3	7.6		
perfluorononanoic acid (PFNA)	ND	ppt	1	2.3	7.7		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	3.8	13		
C13-PFHxA (SURR)	96.406%						S
C13-PFDA (SURR)	100.576%						S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 958674 5024 Collected: 11/09/16 Analyzed: 11/22/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	11	37		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	1.0	3.3		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	3.8	13		
perfluorooctanoic acid (PFOA)	ND	ppt	1	2.3	7.6		
perfluorononanoic acid (PFNA)	ND	ppt	1	2.3	7.7		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	3.8	13		
C13-PFHxA (SURR)	93.267%						S
C13-PFDA (SURR)	84.129%						S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive.

**ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis**

**Customer: U S Army - EMECO (Fort McCoy) NLS Project: 270910**

**Project Description: Drinking Water - Method 537**

**Project Title: Template: 537PPT Printed: 11/23/2016 14:08**

Sample: 958675 5025 Collected: 11/09/16 Analyzed: 11/22/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	11	37		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	1.0	3.3		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	3.8	13		
perfluorooctanoic acid (PFOA)	ND	ppt	1	2.3	7.6		
perfluorononanoic acid (PFNA)	ND	ppt	1	2.3	7.7		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	3.8	13		
C13-PFHxA (SURR)	82.82%						S
C13-PFDA (SURR)	83.653%						S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 958676 5026 Collected: 11/09/16 Analyzed: 11/22/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	11	37		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	1.0	3.3		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	3.8	13		
perfluorooctanoic acid (PFOA)	ND	ppt	1	2.3	7.6		
perfluorononanoic acid (PFNA)	ND	ppt	1	2.3	7.7		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	3.8	13		
C13-PFHxA (SURR)	98.922%						S
C13-PFDA (SURR)	91.007%						S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 958677 5027 Collected: 11/09/16 Analyzed: 11/22/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	11	37		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	1.0	3.3		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	3.8	13		
perfluorooctanoic acid (PFOA)	ND	ppt	1	2.3	7.6		
perfluorononanoic acid (PFNA)	ND	ppt	1	2.3	7.7		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	3.8	13		
C13-PFHxA (SURR)	93.613%						S
C13-PFDA (SURR)	88.409%						S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

**ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis****Customer: U S Army - EMECO (Fort McCoy) NLS Project: 270910****Project Description: Drinking Water - Method 537****Project Title: Template: 537PPT Printed: 11/23/2016 14:08**

Sample: 958678 5028 Collected: 11/09/16 Analyzed: 11/22/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	11	37		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	1.0	3.3		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	3.8	13		
perfluorooctanoic acid (PFOA)	ND	ppt	1	2.3	7.6		
perfluorononanoic acid (PFNA)	ND	ppt	1	2.3	7.7		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	3.8	13		
C13-PFHxA (SURR)	104.606%						S
C13-PFDA (SURR)	102.886%						S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 958679 5029 Collected: 11/09/16 Analyzed: 11/22/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	11	37		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	1.0	3.3		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	3.8	13		
perfluorooctanoic acid (PFOA)	ND	ppt	1	2.3	7.6		
perfluorononanoic acid (PFNA)	ND	ppt	1	2.3	7.7		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	3.8	13		
C13-PFHxA (SURR)	94.77%						S
C13-PFDA (SURR)	91.643%						S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

**PFC RESULTS FOR THE TWO POTABLE WELLS  
ON THE EAST SIDE OF THE AIRFIELD AT THE SPARTA HANGER**

**NORTHERN LAKE SERVICE, INC.**  
 Analytical Laboratory and Environmental Services  
 400 North Lake Avenue - Crandon, WI 54520  
 Ph: (715)-478-2777 Fax: (715)-478-3060

# ANALYTICAL REPORT

WDNR Laboratory ID No. 721026460  
 WDATCP Laboratory Certification No. 105-330  
 EPA Laboratory ID No. WI00034

Printed: 12/20/16 Page 1 of 1

**Client:** U S Army - EMECO (Fort McCoy)  
 Attn: Mike Miller  
 2171 South 8th Avenue  
 2IMNW-MCY-SSP-E  
 Fort McCoy, WI 54656

**NLS Project:** 272235

**NLS Customer:** 35655

**Fax:** 608 388 3136 **Phone:** 608 388 6546

**Project:** Perfluorinated Compounds

S Air 1 NLS ID: 965695

COC: 177738:1 Matrix: DW

Collected: 12/08/16 07:30 Received: 12/09/16

Parameter	Result	Units	Dilution	MRL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached				12/15/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes				12/14/16	EPA 537	721026460

S Air 2 NLS ID: 965696

COC: 177738:2 Matrix: DW

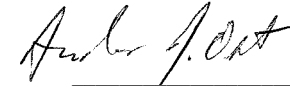
Collected: 12/08/16 07:40 Received: 12/09/16

Parameter	Result	Units	Dilution	MRL	Analyzed	Method	Lab
Perfluorinated Chemicals by EPA Method 537 Rev 1.1	see attached				12/15/16	EPA 537 Rev 1.1	721026460
Solid Phase Extraction by EPA Method 537	yes				12/14/16	EPA 537	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(\*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD)    LOD = Limit of Detection    LOQ = Limit of Quantitation    NA = Not Applicable  
 DWB = Dry Weight Basis    %DWB = (mg/kg DWB) / 10000    1000 ug/L = 1 mg/L  
 MCL = Maximum Contaminant Levels for Drinking Water Samples.    Shaded results indicate >MCL.

Reviewed by:



Authorized by:  
 R. T. Krueger  
 President



**ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis****Customer: U S Army - EMECO (Fort McCoy) NLS Project: 272235****Project Description: Perfluorinated Compounds****Project Title: Template: 537PPT2 Printed: 12/20/2016 16:58**

Sample: 965695 S Air 1 Collected: 12/08/16 Analyzed: 12/15/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	MRL	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	90		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	10		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	30		
perfluorooctanoic acid (PFOA)	ND	ppt	1	20		
perfluorononanoic acid (PFNA)	ND	ppt	1	20		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	40		
C13-PFHxA (SURR)	80.901%					S
C13-PFDA (SURR)	74.849%					S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 965696 S Air 2 Collected: 12/08/16 Analyzed: 12/15/16 - Analytes: 6

ANALYTE NAME	RESULT	UNITS WWB	DIL	MRL	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt	1	90		
perfluoroheptanoic acid (PFHpA)	ND	ppt	1	10		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt	1	30		
perfluorooctanoic acid (PFOA)	ND	ppt	1	20		
perfluorononanoic acid (PFNA)	ND	ppt	1	20		
perfluorooctanesulfonic acid (PFOS)	ND	ppt	1	40		
C13-PFHxA (SURR)	82.381%					S
C13-PFDA (SURR)	78.59%					S

**NOTES APPLICABLE TO THIS ANALYSIS:**

S = This compound is a surrogate used to evaluate the quality control of a method.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive.

QuickTurn Due Date:

# NLS SAMPLE TRACK

Staple Here

Client #

## Receiving Sample Conditions

Client Info:

*Fort McCoy*

Ship To Address on Reverse Side

Project Received Via: FedEx UPS Dunham Speedee US Mail Hand Other: \_\_\_\_\_

Short Hold time (<72hrs)

Rush Turn around Requested

Samples Met All Receipt Requirements  YES  NO - "See Specific Issues Below"

Ordered By: \_\_\_\_\_

Date: \_\_\_\_\_

Temperature over 6.5 C

No Chain of Custody Present

Chain of Custody Not Filled out

Phone: \_\_\_\_\_

Order Recv'd By: \_\_\_\_\_

Headspace in VOA vials(>6mm)

Fax: \_\_\_\_\_

Insufficient Volume

Client Project Description : \_\_\_\_\_

Incorrect/Insufficient Preservation

Data To: \_\_\_\_\_

Date To Be Sampled: \_\_\_\_\_

NLS Quote # \_\_\_\_\_

Addition Comments:

Lab Instructions:

PWS ID# \_\_\_\_\_

DNR Forms: Yes No

Electronic Submittal Yes No

Extra CC To: \_\_\_\_\_

Customer PO # \_\_\_\_\_

Pricing Info: \_\_\_\_\_

Client Notifications/Resolutions:

**PROJECT #**

*272235*

Bill To: \_\_\_\_\_

Done

SAMPLE #S	BOTTLES REC'D and MATRIX	
<i>965695- 696</i>	___ WW	___ DW
	___ FB	___ TB(HCL)
	___ GW	___ TB(NaThio)
	___ SW	___ TIS
	___ SL/SED	___ AIR
	___ SOIL	

Reporting Instructions

TAD CRQL EDD or Other type

Special report to: \_\_\_\_\_

COC #'s	For	Initial	Date
<i>177738</i>	Log - In	<i>THH</i>	<i>12/08</i>
	Review/Login Ck		

Special Requirements

Email Fax Paperless

Date Collected	Work Review	Special Report	TAD / Disk
<i>12/08/16</i>			
Date Rec'd	Data/Pkg. Review 1	Final Pkg. Ck & CC	Billing Check
<i>12/09/16</i>			