

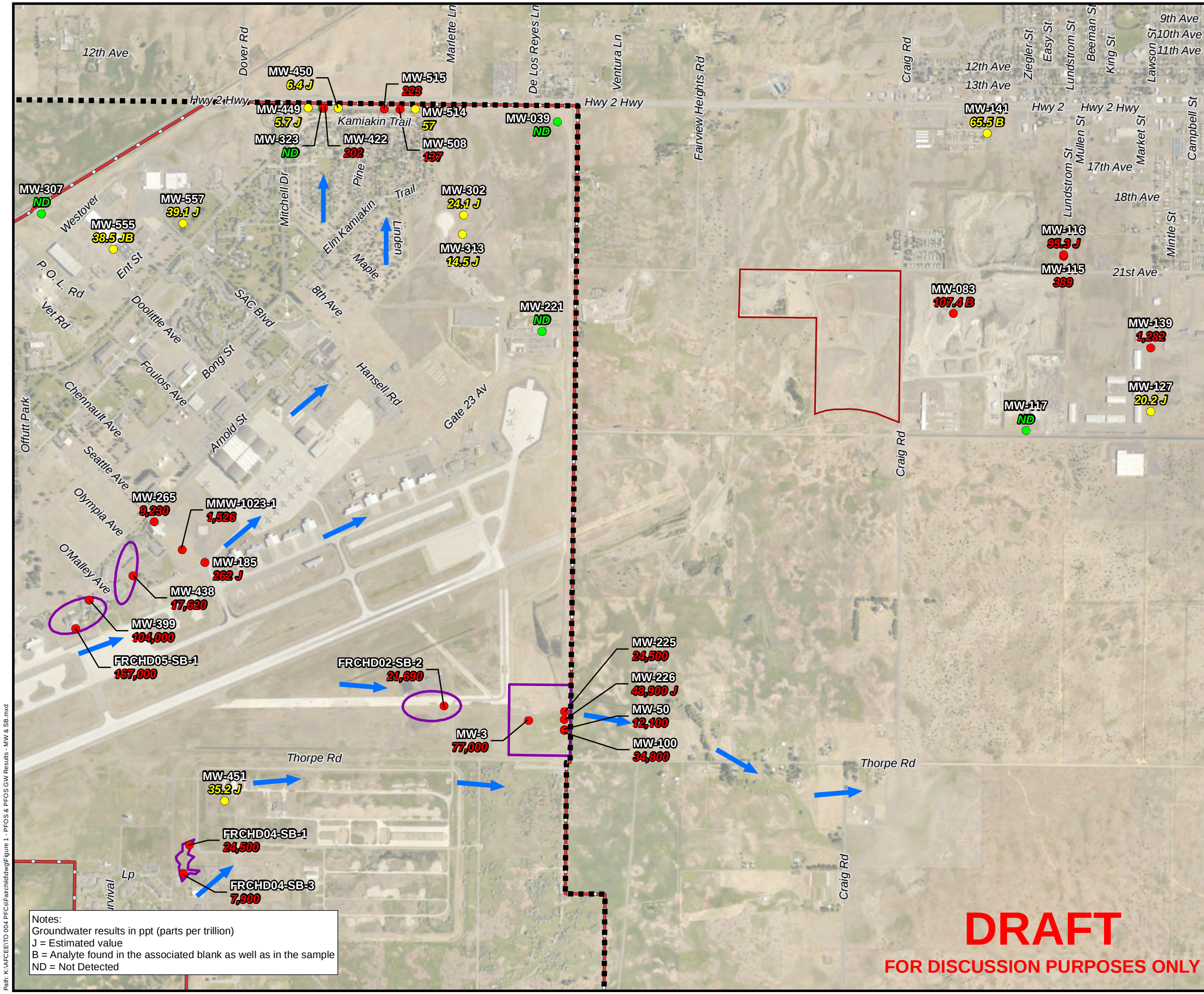


FIGURE 1
PFOS and PFOA in Groundwater
Monitoring Well and Soil Boring Samples
Fairchild Air Force Base
Spokane, Washington

Site Inspection of
Aqueous Film Forming Foam (AFFF)
Release Areas
Environmental Programs Worldwide
Installation-Specific Work Plan

Air Force Civil Engineer Center



2261 Hughes Avenue
Building 171, Suite 155
JBSA Lackland, Texas 78236

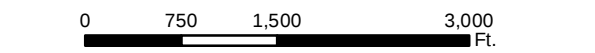
- Symbol Key**
- Exceeds HA
 - Detected Below HA
 - Not Detected
 - Potential AFFF Release Area
 - ▣ Off-Base Sampling Area
 - ▭ Craig Road Landfill
 - ▭ Fairchild AFB Installation Boundary
 - ➔ Approximate Uppermost, Shallow Groundwater Flow Direction (AECOM figure)

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	Project: 775303101	
	Date: 7/18/2018	By:SD

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Notes:
Groundwater results in ppt (parts per trillion)
J = Estimated value
B = Analyte found in the associated blank as well as in the sample
ND = Not Detected

DRAFT
FOR DISCUSSION PURPOSES ONLY

Summary of Groundwater Analytical Testing Results
Site Inspection of AFFF Areas, Monitoring Well and Soil Boring Water Samples
Fairchild Air Force Base, Washington

Analyte ¹ :				Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	PFOS+PFOA
Health Advisory ² :				70	70	70
Location	Sample ID	Sample Date	Sample Depth (ft.)	ng/L (ppt)	ng/L (ppt)	ng/L (ppt)
FRCHD02-SB-2	FRCHD02-GW-001	5/10/2017	5.9-10.9	21000	690	21690
FRCHD04-SB-1	FRCHD04-GW-001	5/11/2017	2.6-7.6	22000	2500	24500
FRCHD04-SB-3	FRCHD04-GW-002	5/12/2017	2.9-6.0	6300	1600	7900
FRCHD05-SB-1	FRCHD05-GW-001	5/11/2017	0.0-0.0	150000	17000	167000
MMW-1023-1	FRCHD03-GW-003	5/9/2017	20.0-25.0	26	1500	1526
MW-100	FRCHD01-GW-005	2/15/2017	43.0-53.0	25000	9800	34800
MW-115	MW-115-20170706	7/6/2017	166-176	203	186	389
MW-116	MW-116-20170706	7/6/2017	240.5-252.4	81.1	14.2 J	95.3 J
MW-117	MW_117_20170510	5/10/2017	151.31-162.81	ND < 10	ND < 10	ND < 10
MW-127	MW_127_20170510	5/10/2017	177.4-187.4	14 J	6.2 J	20.2 J
MW-139	MW-139-20170707	7/7/2017	172-182	1040	242	1282
MW-141	MW-141-20170706	7/6/2017	158-168	30.5 B	35	65.5 B
MW-185	FRCHD03-GW-004	5/9/2017	50-60	240 J	22	262 J
MW-221	MW-221-20170609	6/9/2017	24.6-34.6	ND < 10	ND < 10	ND < 10
MW-225	FRCHD01-GW-002	2/14/2017	6.0-16.0	21000	3500	24500
MW-226	FRCHD01-GW-003	2/14/2017	6.0-16.0	41000 J	7900 J	48900 J
MW-265	FRCHD03-GW-002	5/9/2017	10.0-20.0	8400	830	9230
MW-3	FRCHD01-GW-001	2/15/2017	3.5-9.0	55000	22000	77000
MW-302	MW-302-20170628	6/28/2017	45-55	18 J	6.1 J	24.1 J
MW-307	MW-307-20170811	8/11/2017	42-52	ND < 6.2	ND < 6.2	ND < 6.2
MW-313	MW-313-20170628	6/28/2017	26-36	6.5 J	8 J	14.5 J
MW-323	MW-323-2017609	6/9/2017	43-53	ND < 10	ND < 10	ND < 10
MW-39	MW-39-2017608	6/8/2017	32.4-43.5	ND < 10	ND < 10	ND < 10
MW-399	FRCHD05-GW-002	5/8/2017	7.0-17.0	98000	6000	104000
MW-422	MW-422-20170609	6/9/2017	65-80	130	72	202
MW-438	FRCHD03-GW-001	5/8/2017	7.5-12.5	17000	620	17620
MW-449	MW-449-20170608	6/8/2017	65-80	ND < 10	5.7 J	5.7 J
MW-450	MW-450-20170609	6/9/2017	65-80	ND < 10	6.4 J	6.4 J
MW-451	FRCHD04-GW-003	5/10/2017	9.0-19.0	26	9.2 J	35.2 J
MW-50	FRCHD01-GW-004	2/15/2017	6.0-16.0	11000	1100	12100
MW-83	MW-83-20170706	7/6/2017	133-144.5	39 B	68.4	107.4 B
MW-555	MW-555-20170811	8/11/2017	20-25	25.4 B	13.1 J	38.5 JB
MW-557	MW-557-20170811	8/11/2017	56-66	25.4	13.7 J	39.1 J

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Health Advisory ² :				70	70	70
Location	Sample ID	Sample Date	Sample Depth (ft.)	ng/L (ppt)	ng/L (ppt)	ng/L (ppt)
MW-508	MW-508-20170608	6/8/2017	69-79	92	45	137
MW-514	MW-514-20170609	6/9/2017	94-104	36	21	57
MW-515	MW-515-20170608	6/8/2017	76-86	130	93	223

Notes:

Purple Shaded = Exceeds Screening Level

Gray Values = not detected

AFFF = aqueous film forming foam

ft = feet

ID = identification

ND = not detected

ng/L = nanograms per liter (parts per trillion [ppt])

¹ PFAS analysis by Modified USEPA Method 537.1 using Liquid Chromatography and Tandem Mass Spectrometry

² Health Advisory from USEPA Office of Water, 2016a and 2016b, Health Advisories (HAs) for drinking water.

Qualifier Definitions:

J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.

B = The analyte was found in an associated blank, as well as in the sample.

PFOS+PFOA = Co-occurrence of PFOA and PFOS (PFOA+PFOS) in aqueous samples is reported using the following guidelines:

1. If both PFOA and PFOS are detected at or above the detection limit (DL), then the sum of PFOA+PFOS is reported.
2. If either PFOA or PFOS is detected at or above the DL and the other is not detected, then PFOA+PFOS is reported as the detected concentration.
3. If neither PFOA nor PFOS is detected at or above the DL then PFOA+PFOS is reported as "ND" representing Not Detected (ND).