

Appendix I Laboratory Data
Groundwater
Grayling Army Airfield PFAS SI Report
Camp Grayling, MI

Area of Interest Sample ID Sample Date			AOI1																											
			AOI1-1-GW-55				AOI1-2-GW-29				AOI1-3-GW-59				AOI1-4-GW-58				AOI1-5-GW-29				AOI1-6-GW-59				AOI1-6-GW-59 DUP			
			9/20/2018				9/21/2018				9/20/2018				9/19/2018				9/21/2018				9/19/2018				9/19/2018			
Analyte	EPA HA/RSL ^{a,b}	MDEQ ^c	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual
Water, PFAS EPA 537 Rev 1.1 Mod (ng/L)																														
6:2 FTS	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	2.58	3.57	8.93	J	<	4.00	10.0	U	<	4.00	10.0	U
8:2 FTS	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U
NEtFOSAA	-	-	<	8.00	10.0	U	<	7.14	8.93	U	<	8.33	10.4	U	<	8.00	10.0	U	<	7.14	8.93	U	<	8.00	10.0	U	<	8.00	10.0	U
NMeFOSAA	-	-	<	8.00	10.0	U	<	7.14	8.93	U	<	8.33	10.4	U	<	8.00	10.0	U	<	7.14	8.93	U	<	8.00	10.0	U	<	8.00	10.0	U
PFBA	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	3.47	4.00	10.0	J	10.2	3.57	8.93	<	4.00	10.0	U	<	4.00	10.0	U	
PFBS	400,000	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	2.43	3.57	8.93	J	<	4.00	10.0	U	<	4.00	10.0	U
PFDA	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U
PFDoA	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U
PFHpA	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	6.83	3.57	8.93	J	<	4.00	10.0	U	<	4.00	10.0	U
PFHxA	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	30.3	3.57	8.93	<	4.00	10.0	U	<	4.00	10.0	U	
PFHxS	-	-	2.63	4.00	10.0	J	<	3.57	8.93	U	1.88	4.17	10.4	J	<	4.00	10.0	U	75.2	3.57	8.93		2.26	4.00	10.0	J	2.01	4.00	10.0	J
PFNA	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U
PFOA	70	70	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	5.37	3.57	8.93	J	<	4.00	10.0	U	<	4.00	10.0	U
PFOS	70	70	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	13.3	4.00	10.0		344	3.57	8.93	<	4.00	10.0	U	<	4.00	10.0	U	
PFPeA	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	33.0	3.57	8.93	<	4.00	10.0	U	<	4.00	10.0	U	
PFTeDA	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	<	3.57	8.93	UJ	<	4.00	10.0	U	<	4.00	10.0	U
PFTriDA	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	<	3.57	8.93	UJ	<	4.00	10.0	U	<	4.00	10.0	U
PFUDa	-	-	<	4.00	10.0	U	<	3.57	8.93	U	<	4.17	10.4	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U
PFOA+PFOS Total	70	70	<	4.00	10.0		<	3.57	8.93		<	4.17	10.4		13.3	4.00	10.0		349	3.57	8.93	<	4.00	10.0		<	4.00	10.0		

Grey Fill Detected concentration exceeded EPA HA/RSL
Bold Font Detected concentration exceeded MDEQ Criteria

*Formats are combined for exceedances of multiple criteria

References

- a. United States Environmental Protection Agency (EPA). 2016. Drinking Water Health Advisory for Perfluorooctanoic Acid (PFOA). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-005. May 2016. / EPA. 2016. Drinking Water Health Advisory for Perfluorooctane Sulfonate (PFOS). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-004. May 2016.
- b. Regional Screening Levels (RSL) for PFBS as presented in the USEPA RSL Summary Table (TR=1E-06, HQ=1) November 2014 through May 2018. As of November 2018, values for PFOA and PFOS calculated by the EPA RSL calculator using EPA Office of Water (OW) Reference Dose (RfD), HQ of 1, and residential exposure assumptions. Note: RSL users screening sites with multiple contaminants should consult the USEPA (2018) RSL User's Guide and USEPA (1989) Risk Assessment Guidance.
- c. Michigan Department of Environmental Quality (MDEQ). 2018. Remediation and Redevelopment Division. Environmental Contamination Response Activity Rules. Table 1. Groundwater: Residential and Nonresidential, Part 201 Generic Cleanup Criteria and Screening Levels. Effective January 10, 2018.

Interpreted Qualifiers

J = Estimated concentration

U = The analyte was not detected at a level greater than or equal to the adjusted detection limit (DL)

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Area of Interest Sample ID Sample Date			AOI2																								AOI3							
			AOI2-1-GW-54				AOI2-2-GW-29				AOI2-3-GW-58				AOI2-4-GW-50				AOI2-5-GW-28				AOI2-6-GW-45				AOI3-1-GW-28							
			9/15/2018				9/19/2018				9/17/2018				9/18/2018				9/19/2018				9/18/2018				9/14/2018							
Analyte	EPA HA/RSL ^{a,b}	MDEQ ^c	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual				
Water, PFAS EPA 537 Rev 1.1 Mod (ng/L)																																		
6:2 FTS	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	3.57	8.93	U	<	3.57	8.93	U
8:2 FTS	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	3.57	8.93	U	<	3.57	8.93	U
NEtFOSAA	-	-	<	7.14	8.93	U	<	7.14	8.93	U	<	8.00	10.0	U	<	8.00	10.0	U	<	7.14	8.93	U	<	8.00	10.0	U	<	7.14	8.93	U	<	7.14	8.93	U
NMeFOSAA	-	-	<	7.14	8.93	U	<	7.14	8.93	U	<	8.00	10.0	U	<	8.00	10.0	U	<	7.14	8.93	U	<	8.00	10.0	U	<	7.14	8.93	U	<	7.14	8.93	U
PFBA	-	-	<	3.57	8.93	U	2.70	3.57	8.93	J	<	4.00	10.0	U	6.45	4.00	10.0	J	<	3.57	8.93	U	6.21	4.00	10.0	J	5.12	3.57	8.93	J				
PFBS	400,000	-	<	3.57	8.93	U	1.35	3.57	8.93	J	<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	2.58	3.57	8.93	J				
PFDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	3.57	8.93	U	<	3.57	8.93	U
PFDoA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	3.57	8.93	U	<	3.57	8.93	U
PFHpA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	13.8	4.00	10.0		<	3.57	8.93	U	7.84	4.00	10.0	J	4.80	3.57	8.93	J				
PFHxA	-	-	<	4.23	3.57	8.93	J	3.97	3.57	8.93	J	<	4.00	10.0	U	15.0	4.00	10.0		<	3.57	8.93	U	8.93	4.00	10.0	J	9.84	3.57	8.93				
PFHxS	-	-	<	71.2	3.57	8.93		132	3.57	8.93		<	4.00	10.0	U	8.12	4.00	10.0	J	3.12	3.57	8.93	J	4.23	4.00	10.0	J	39.0	3.57	8.93				
PFNA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	3.57	8.93	U	<	3.57	8.93	U
PFOA	70	70	<	4.51	3.57	8.93	J	6.45	3.57	8.93	J	<	4.00	10.0	U	7.92	4.00	10.0	J	<	3.57	8.93	U	3.12	4.00	10.0	J	3.57	3.57	8.93	J			
PFOS	70	70	<	68.3	3.57	8.93		102	3.57	8.93		<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	54.6	3.57	8.93				
PFPeA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	16.0	4.00	10.0		<	3.57	8.93	U	11.0	4.00	10.0		12.1	3.57	8.93					
PFTeDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	3.57	8.93	U	<	3.57	8.93	U
PFTrDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	3.57	8.93	U	<	3.57	8.93	U
PFUdA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	4.00	10.0	U	<	4.00	10.0	U	<	3.57	8.93	U	<	4.00	10.0	U	<	3.57	8.93	U	<	3.57	8.93	U
PFOA+PFOS Total	70	70		72.8	3.57	8.93		108	3.57	8.93		<	4.00	10.0		7.92	4.00	10.0		<	3.57	8.93		3.12	4.00	10.0		58.2	3.57	8.93				

Grey Fill Detected concentration exceeded EPA HA/RSL

Bold Font Detected concentration exceeded MDEQ Criteria

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References

a. United States Environmental Protection Agency (EPA). 2016. Drinking Water Health Advisory for Perfluorooctanoic Acid (PFOA). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-005. May 2016. / EPA. 2016. Drinking Water Health Advisory for Perfluorooctane Sulfonate (PFOS). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-004. May 2016.

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Interpreted Qualifiers

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Groundwater
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Camp Grayling, MI**

Area of Interest Sample ID Sample Date			AOI3																								AOI4							
			AOI3-MW128D-35				AOI3-MW128S-25				AOI3-MW13D-24				AOI3-MW13S-15				AOI3-MW31-19				AOI3-MW31-19 DUP				AOI4-1-GW-29							
			9/14/2018				9/14/2018				9/15/2018				9/15/2018				9/14/2018				9/14/2018				9/12/2018							
Analyte	EPA HA/RSL ^{a,b}	MDEQ ^c	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual				
Water, PFAS EPA 537 Rev 1.1 Mod (ng/L)																																		
6:2 FTS	-	-	<	3.85	9.62	U	<	3.57	8.93	U	<	3.57	8.93	U	23.6	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
8:2 FTS	-	-	<	3.85	9.62	U	1.94	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
NEtFOSAA	-	-	<	7.69	9.62	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U
NMeFOSAA	-	-	<	7.69	9.62	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U
PFBA	-	-	<	3.85	9.62	U	3.22	3.57	8.93	J	3.64	3.57	8.93	J	36.2	3.57	8.93	U	2.16	3.57	8.93	J	2.66	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFBS	400,000	-	<	3.85	9.62	U	<	3.57	8.93	U	3.19	3.57	8.93	J	1.45	3.57	8.93	J	1.66	3.57	8.93	J	1.90	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFDA	-	-	<	3.85	9.62	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFDoA	-	-	<	3.85	9.62	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFHpA	-	-	<	3.85	9.62	U	10.2	3.57	8.93	J	4.06	3.57	8.93	J	31.6	3.57	8.93	U	3.60	3.57	8.93	J	3.62	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFHxA	-	-	<	3.85	9.62	U	6.56	3.57	8.93	J	7.56	3.57	8.93	J	63.4	3.57	8.93	U	5.91	3.57	8.93	J	6.02	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFHxS	-	-	33.2	3.85	9.62	U	21.1	3.57	8.93	J	55.6	3.57	8.93	J	28.5	3.57	8.93	U	24.4	3.57	8.93	J	26.0	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFNA	-	-	<	3.85	9.62	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFOA	70	70	<	3.85	9.62	U	4.35	3.57	8.93	J	4.32	3.57	8.93	J	20.5	3.57	8.93	U	3.37	3.57	8.93	J	3.69	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFOS	70	70	27.8	3.85	9.62	U	257	3.57	8.93	J	172	3.57	8.93	J	96.3	3.57	8.93	U	45.7	3.57	8.93	J	43.9	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFPeA	-	-	<	3.85	9.62	U	6.29	3.57	8.93	J	8.75	3.57	8.93	J	94.4	3.57	8.93	U	5.85	3.57	8.93	J	5.46	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFTeDA	-	-	<	3.85	9.62	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFTrDA	-	-	<	3.85	9.62	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFUdA	-	-	<	3.85	9.62	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFOA+PFOS Total	70	70	27.8	3.85	9.62	U	261	3.57	8.93	J	176	3.57	8.93	J	117	3.57	8.93	U	49.1	3.57	8.93	J	47.6	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U

Grey Fill Detected concentration exceeded EPA HA/RSL

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References

a. United States Environmental Protection Agency (EPA). 2016. Drinking Water Health Advisory for Perfluorooctanoic Acid (PFOA). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-005. May 2016. / EPA. 2016. Drinking Water Health Advisory for Perfluorooctane Sulfonate (PFOS). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-004. May 2016.

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Area of Interest Sample ID Sample Date			AOI4																				AOI5							
			AOI4-2-GW-29				AOI4-3-GW-29				AOI4-4-GW-29				AOI4-5-GW-29				AOI4-6-GW-29				AOI5-1-GW-29			AOI5-2-GW-29				
			9/13/2018				9/13/2018				9/13/2018				9/13/2018				9/13/2018				9/12/2018			9/12/2018				
Analyte	EPA HA/RSL ^{a,b}	MDEQ ^c	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual
Water, PFAS EPA 537 Rev 1.1 Mod (ng/L)																														
6:2 FTS	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	<	3.57	8.93	U
8:2 FTS	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	<	3.57	8.93	U
NEtFOSAA	-	-	<	8.33	10.4	U	<	7.14	8.93	U	<	7.69	9.62	U	<	7.69	9.62	U	<	7.14	8.93	U	<	8.33	10.4	U	<	7.14	8.93	U
NMeFOSAA	-	-	<	8.33	10.4	U	<	7.14	8.93	U	<	7.69	9.62	U	<	7.69	9.62	U	<	7.14	8.93	U	<	8.33	10.4	U	<	7.14	8.93	U
PFBA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	2.68	4.17	10.4	J	2.06	3.57	8.93	J
PFBS	400,000	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	2.36	3.57	8.93	J
PFDA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	<	3.57	8.93	U
PFDoA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	<	3.57	8.93	U
PFHpA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	2.16	3.57	8.93	J	<	4.17	10.4	U	<	3.57	8.93	U
PFHxA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	2.54	3.57	8.93	J	<	4.17	10.4	U	<	3.57	8.93	U
PFHxS	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	2.36	4.17	10.4	J	5.74	3.57	8.93	J
PFNA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	<	3.57	8.93	U
PFOA	70	70	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	6.53	3.57	8.93	J
PFOS	70	70	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	9.35	3.85	9.62	J	<	3.57	8.93	U	<	4.17	10.4	U	9.41	3.57	8.93	J
PFPeA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	4.00	3.57	8.93	J
PFTeDA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	<	3.57	8.93	U
PFTrDA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	<	3.57	8.93	U
PFUdA	-	-	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.85	9.62	U	<	3.57	8.93	U	<	4.17	10.4	U	<	3.57	8.93	U
PFOA+PFOS Total	70	70	<	4.17	10.4	U	<	3.57	8.93	U	<	3.85	9.62	U	9.35	3.85	9.62	J	<	3.57	8.93	U	<	4.17	10.4	U	15.9	3.57	8.93	J

Grey Fill Detected concentration exceeded EPA HA/RSL

Bold Font Detected concentration exceeded MDEQ Criteria

*Formats are combined for exceedances of multiple criteria

References

a. United States Environmental Protection Agency (EPA). 2016. Drinking Water Health Advisory for Perfluorooctanoic Acid (PFOA). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-005. May 2016. / EPA. 2016. Drinking Water Health Advisory for Perfluorooctane Sulfonate (PFOS). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-004. May 2016.

b. Regional Screening Levels (RSL) for PFBS as presented in the USEPA RSL Summary Table (TR=1E-06, HQ=1) November 2014 through May 2018. As of November 2018, values for PFOA and PFOS calculated by the EPA RSL calculator using EPA Office of Water (OW) Reference Dose (RfD), HQ of 1, and residential exposure assumptions. Note: RSL users screening sites with multiple contaminants should consult the USEPA (2018) RSL User's Guide and USEPA (1989) Risk Assessment Guidance.

c. Michigan Department of Environmental Quality (MDEQ). 2018. Remediation and Redevelopment Division. Environmental Contamination Response Activity Rules. Table 1. Groundwater: Residential and Nonresidential, Part 201 Generic Cleanup Criteria and Screening Levels. Effective January 10, 2018.

Interpreted Qualifiers

J = Estimated concentration

U = The analyte was not detected at a level greater than or equal to the adjusted detection limit (DL)

Appendix I Laboratory Data
Groundwater
Grayling Army Airfield PFAS SI Report
Camp Grayling, MI

Area of Interest Sample ID Sample Date			AOI5																															
			AOI5-3-GW-28				AOI5-VAP-32-21				AOI5-VAP-32-21 DUP				AOI5-VAP-33-22				AOI5-VAP34-22				AOI5-VAP34-22 DUP				AOI5-VAP-35-22							
			9/12/2018				9/11/2018				9/11/2018				9/11/2018				9/11/2018				9/11/2018				9/11/2018							
Analyte	EPA HA/RSL ^{a,b}	MDEQ ^c	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual				
Water, PFAS EPA 537 Rev 1.1 Mod (ng/L)																																		
6:2 FTS	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	1.73	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U
8:2 FTS	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U
NEtFOSAA	-	-	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.69	9.62	U
NMeFOSAA	-	-	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.69	9.62	U
PFBA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	5.62	3.57	8.93	J	3.33	3.57	8.93	J	3.06	3.57	8.93	J	<	3.57	8.93	U	<	3.85	9.62	U
PFBS	400,000	-	<	3.57	8.93	U	1.86	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U
PFDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U
PFDoA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U
PFHpA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	2.22	3.57	8.93	J	4.56	3.57	8.93	J	4.19	3.57	8.93	J	<	3.57	8.93	U	<	3.85	9.62	U
PFHxA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	14.8	3.57	8.93	J	6.48	3.57	8.93	J	5.81	3.57	8.93	J	<	3.57	8.93	U	<	3.85	9.62	U
PFHxS	-	-	<	3.57	8.93	U	19.4	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U	47.9	3.57	8.93	J	41.3	3.57	8.93	J	<	3.57	8.93	U	<	3.85	9.62	U
PFNA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U
PFOA	70	70	<	3.57	8.93	U	2.25	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U	4.50	3.57	8.93	J	4.65	3.57	8.93	J	<	3.57	8.93	U	<	3.85	9.62	U
PFOS	70	70	<	3.57	8.93	U	9.93	3.57	8.93	J	1.96	3.57	8.93	J	2.54	3.57	8.93	J	465	3.57	8.93	J	453	3.57	8.93	J	<	3.57	8.93	U	<	3.85	9.62	U
PFPeA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	22.0	3.57	8.93	J	5.19	3.57	8.93	J	4.57	3.57	8.93	J	<	3.57	8.93	U	<	3.85	9.62	U
PFTeDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U
PFTriDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U
PFUDa	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U
PFOA+PFOS Total				70	70	<	3.57	8.93		12.2	3.57	8.93		1.96	3.57	8.93		2.54	3.57	8.93		470	3.57	8.93		458	3.57	8.93		<	3.85	9.62		

Grey Fill Detected concentration exceeded EPA HA/RSL

Bold Font Detected concentration exceeded MDEQ Criteria

*Formats are combined for exceedances of multiple criteria

References

a. United States Environmental Protection Agency (EPA). 2016. Drinking Water Health Advisory for Perfluorooctanoic Acid (PFOA). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-005. May 2016. / EPA. 2016. Drinking Water Health Advisory for Perfluorooctane Sulfonate (PFOS). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-004. May 2016.

b. Regional Screening Levels (RSL) for PFBS as presented in the USEPA RSL Summary Table (TR-1E-06, HQ=1) November 2014 through May 2018. As of November 2018, values for PFOA and PFOS calculated by the EPA RSL calculator using EPA Office of Water (OW) Reference Dose (RfD), HQ of 1, and residential exposure assumptions. Note: RSL users screening sites with multiple contaminants should consult the USEPA (2018) RSL User's Guide and USEPA (1989) Risk Assessment Guidance.

c. Michigan Department of Environmental Quality (MDEQ). 2018. Remediation and Redevelopment Division. Environmental Contamination Response Activity Rules, Table 1. Groundwater: Residential and Nonresidential, Part 201 Generic Cleanup Criteria and Screening Levels. Effective January 10, 2018.

Interpreted Qualifiers

J = Estimated concentration

U = The analyte was not detected at a level greater than or equal to the adjusted detection limit (DL)

Appendix I Laboratory Data
Groundwater
Grayling Army Airfield PFAS SI Report
Camp Grayling, MI

Area of Interest Sample ID Sample Date			Phase 2																												
			GAAF MW-01-101918				GAAF MW-02-102218				GAAF MW-03-102218				GAAF MW-04-102218				GAAF MW-05-102018				GAAF MW-06-101918				GAAF MW-07-101918				
			10/19/2018				10/22/2018				10/22/2018				10/22/2018				10/20/2018				10/19/2018				10/19/2018				
Analyte	EPA HA/RSL ^{a,b}	MDEQ ^c	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	
Water, PFAS EPA 537 Rev 1.1 Mod (ng/L)																															
6:2 FTS	-	-	<	3.57	8.93	U	<	3.57	8.93	U	1.67	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
8:2 FTS	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
NEtFOSAA	-	-	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.69	9.62	U	<	7.14	8.93	U	
NMeFOSAA	-	-	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.69	9.62	U	<	7.14	8.93	U	
PFBA	-	-	<	3.57	8.93	U	2.26	3.57	8.93	J	9.99	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFBS	400,000	-	<	3.57	8.93	U	<	3.57	8.93	U	1.72	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFDoA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFHpA	-	-	<	3.57	8.93	U	2.12	3.57	8.93	J	7.94	3.57	8.93	J	1.98	3.57	8.93	J	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFHxA	-	-	<	3.57	8.93	U	3.51	3.57	8.93	J	26.3	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFHxS	-	-	1.63	3.57	8.93	J	11.7	3.57	8.93	U	75.5	3.57	8.93	U	6.07	3.57	8.93	J	22.6	3.57	8.93	U	3.13	3.85	9.62	J	<	3.57	8.93	U	
PFNA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFOA	70	70	<	3.57	8.93	U	2.18	3.57	8.93	J	5.16	3.57	8.93	J	2.44	3.57	8.93	J	2.17	3.57	8.93	J	<	3.85	9.62	U	<	3.57	8.93	U	
PFOS	70	70	<	3.57	8.93	U	67.9	3.57	8.93	U	166	3.57	8.93	U	37.9	3.57	8.93	U	17.5	3.57	8.93	U	<	6.44	9.62	U	<	3.57	8.93	U	
PFPeA	-	-	<	3.57	8.93	U	3.38	3.57	8.93	J	26.0	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFTeDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFTrDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFUdA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.85	9.62	U	<	3.57	8.93	U	
PFOA+PFOS Total				70	70	<	3.57	8.93		70.1	3.57	8.93		171	3.57	8.93		40.3	3.57	8.93		19.7	3.57	8.93		<	6.44	9.62	<	3.57	8.93

Grey Fill Detected concentration exceeded EPA HA/RSL

Bold Font Detected concentration exceeded MDEQ Criteria

*Formats are combined for exceedances of multiple criteria

References

a. United States Environmental Protection Agency (EPA). 2016. Drinking Water Health Advisory for Perfluorooctanoic Acid (PFOA). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-005. May 2016. / EPA. 2016. Drinking Water Health Advisory for Perfluorooctane Sulfonate (PFOS). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-004. May 2016.

b. Regional Screening Levels (RSL) for PFBS as presented in the USEPA RSL Summary Table (TR=1E-06, HQ=1) November 2014 through May 2018. As of November 2018, values for PFOA and PFOS calculated by the EPA RSL calculator using EPA Office of Water (OW) Reference Dose (RfDs), HQ of 1, and residential exposure assumptions. Note: RSL users screening sites with multiple contaminants should consult the USEPA (2018) RSL User's Guide and USEPA (1989) Risk Assessment Guidance.

c. Michigan Department of Environmental Quality (MDEQ). 2018. Remediation and Redevelopment Division. Environmental Contamination Response Activity Rules. Table 1. Groundwater: Residential and Nonresidential, Part 201 Generic Cleanup Criteria and Screening Levels. Effective January 10, 2018.

Interpreted Qualifiers

J = Estimated concentration

U = The analyte was not detected at a level greater than or equal to the adjusted detection limit (DL)

**Appendix I Laboratory Data
Groundwater
Grayling Army Airfield PFAS SI Report
Camp Grayling, MI**

Area of Interest Sample ID Sample Date			Phase 2																											
			GAAF MW-07-101918 DUP						GAAF MW-08-101918				GAAF MW-09-101918				GAAF MW-10-101918				GAAF MW-11-102018				GAAF-MW-10-101918-DUP					
			10/19/2018						10/19/2018				10/19/2018				10/19/2018				10/20/2018				10/19/2018					
Analyte	EPA HA/RSL ^{a,b}	MDEQ ^c	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual	Result	LOD	LOQ	Qual				
Water, PFAS EPA 537 Rev 1.1 Mod (ng/L)																														
6:2 FTS	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
8:2 FTS	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
NEIFOSAA	-	-	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U
NMeFOSAA	-	-	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U	<	7.14	8.93	U
PFBA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFBS	400,000	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	1.38	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFD _o A	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFHpA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFHxA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	3.34	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFHxS	-	-	<	3.57	8.93	U	<	3.57	8.93	U	2.23	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFNA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFOA	70	70	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	3.10	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFOS	70	70	<	3.57	8.93	U	<	3.57	8.93	U	2.81	3.57	8.93	J	1.59	3.57	8.93	J	7.18	3.57	8.93	J	<	3.57	8.93	U	<	3.57	8.93	U
PFPeA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFTeDA	-	-	<	3.57	8.93	U	<	3.57	8.93	UJ	<	3.57	8.93	UJ	<	3.57	8.93	UJ	<	3.57	8.93	UJ	<	3.57	8.93	UJ	<	3.57	8.93	U
PFTTrDA	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFUDa	-	-	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U	<	3.57	8.93	U
PFOA+PFOS Total	70	70	<	3.57	8.93		<	3.57	8.93		2.81	3.57	8.93		1.59	3.57	8.93		10	3.57	8.93		<	3.57	8.93		<	3.57	8.93	

Grey Fill Detected concentration exceeded EPA HA/RSL
Bold Font Detected concentration exceeded MDEQ Criteria

*Formats are combined for exceedances of multiple criteria

References

a. United States Environmental Protection Agency (EPA). 2016. Drinking Water Health Advisory for Perfluorooctanoic Acid (PFOA). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-005. May 2016. / EPA. 2016. Drinking Water Health Advisory for Perfluorooctane Sulfonate (PFOS). Office of Water (4304T). Health and Ecological Criteria Division, Washington, DC 20460. EPA Document Number: 822-R-16-004. May 2016.

b. Regional Screening Levels (RSL) for PFBS as presented in the USEPA RSL Summary Table (TR-1E-06, HQ=1) November 2014 through May 2018. As of November 2018, values for PFOA and PFOS calculated by the EPA RSL calculator using EPA Office of Water (OW) Reference Dose (RfDs), HQ of 1, and residential exposure assumptions. Note: RSL users screening sites with multiple contaminants should consult the USEPA (2018) RSL User's Guide and USEPA (1989) Risk Assessment Guidance.

c. Michigan Department of Environmental Quality (MDEQ). 2018. Remediation and Redevelopment Division. Environmental Contamination Response Activity Rules. Table 1. Groundwater: Residential and Nonresidential, Part 201 Generic Cleanup Criteria and Screening Levels. Effective January 10, 2018.

Interpreted Qualifiers

J = Estimated concentration

U = The analyte was not detected at a level greater than or equal to the adjusted detection limit (DL)