

WISCONSIN AIR NATIONAL GUARD HEADQUARTERS 115TH FIGHTER WING (ACC) (ANG) 3110 MITCHELL STREET MADISON WISCONSIN 53704-2529

21 July 2021

MEMORANDUM FOR WISCONSIN DEPARTMENT OF NATURAL RESOURCES

FROM: 115 CES/CC

SUBJECT: XGFG189001 F-35 Construct Simulator at Truax Materials Management Plan Addendum – BRRTS #: 02-13-585319

- 1. Pursuant to the 21 July 2021 approved materials management plan, this serves as a project specific addendum for the subject project.
- 2. Attachment 1 details PFAS sampling results for the subject project. Attachment 2 details the areas which were found to contain PFAS. For materials removed within the red box associated with Sample Point 1, only material below 2' will be managed as PFAS compromised material. For materials removed within the red boxes of Sample Points 6 & 8, all material will be managed as PFAS compromised material. Materials removed within this boundaries (vertically and horizontally) will be managed in accordance with the 21 July 2021 letter, BRRTS # 02-13-585319.
- 3. If you have any additional questions, please feel free to contact me at 608-286-0010 or michael.dunlap@us.af.mil at any time. Thank you in advance for your review of this material management plan.

MICHAEL J. DUNLAP, Lt Col, WI ANG Commander, 115th Civil Engineer Squadron Base Civil Engineer, 115th Fighter Wing

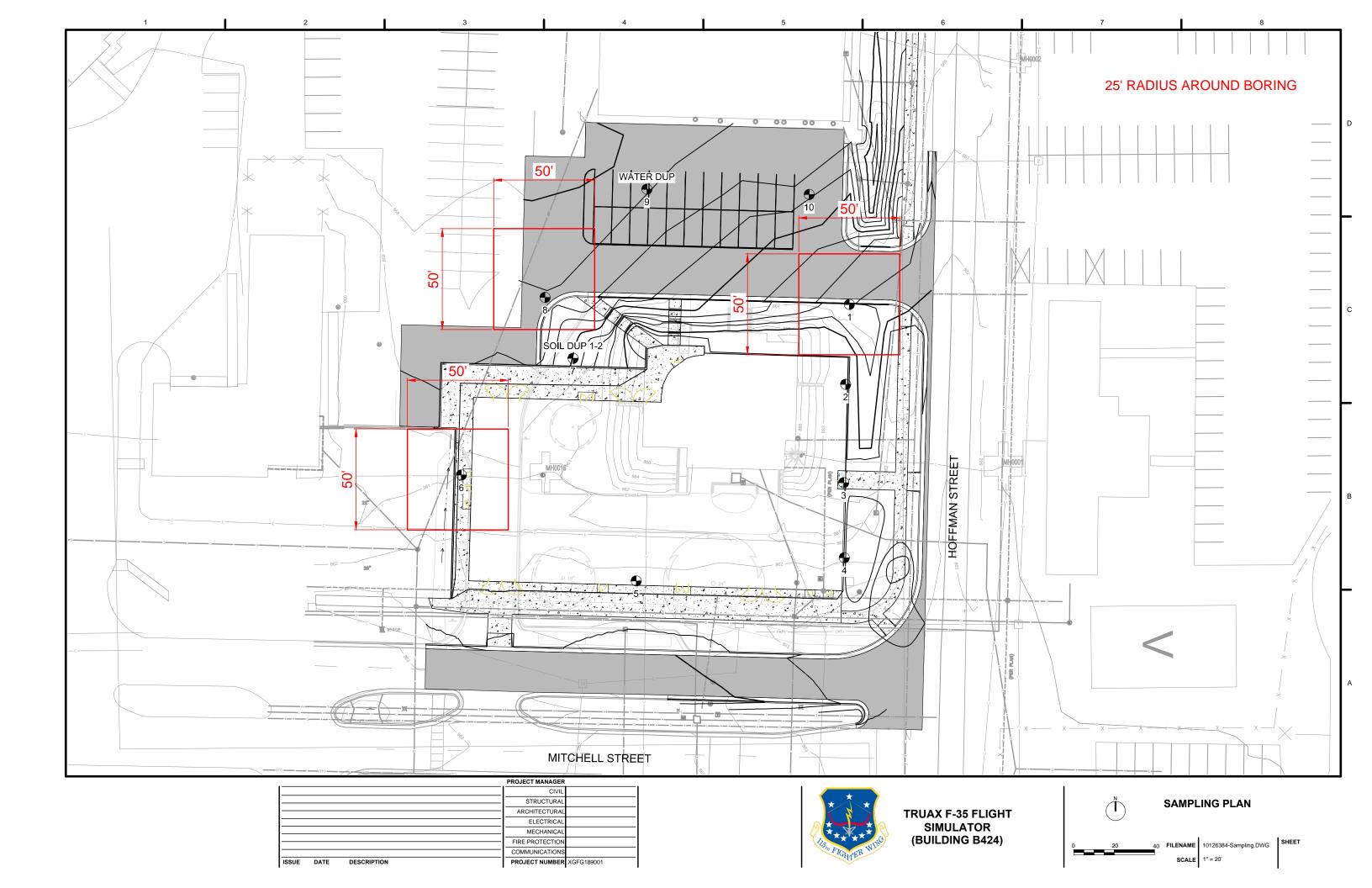
Attachment:

- 1. Truax Sampling Report Results 5 June 2020
- 2. Sampling Plan

Detectable VOC and PFAS Results F-35 Simulator Building Location Truax ANGB, WI

Samples Collected April 10, 2020

Part				VOCs (CT LABS)			llected Ap	-,			DEAS (VI	STA LABS)						
	Sample Point 1	Toluene	Acetone		Tetrachloroethene	PFBA	PFPeA	PFBS	PFHxA	PFPeS			PFOA	PFHpS	PFNA	PFOSA	PFOS	EtFOSAA
Column C											· · · · · · · ·							
Company Comp	GW-PFAS						2.26 ng/L	3.72 ng/L	4.37 ng/L		3.04 ng/L	12.8 ng/L	5.75 ng/L	1.56 ng/L		2.57 ng/L	56.8 ng/L	2.35 ng/L
ACCOUNTS Part Par	Soil-1-2' VOCs																	
Company Comp																	163 ng/l	
Second Blanch Lack Lac	3011-AG F1 A3																.403 Hg/ L	
March Marc	Sample Point 2	Toluene	Acetone	1,4 Dichlorobenzene	Tetrachloroethene	PFBA	PFPeA	PFBS	PFHxA	PFPeS	PFHpA	PFHxS	PFOA	PFHpS	PFNA	PFOSA	PFOS	EtFOSAA
## 1	GW-VOCs	0.36 ug/L	4.1 ug/L															
18 A 2 FOR 19 1	GW-PFAS						5.02 ng/L	2.44 ng/L	4.91 ng/L		2.99 ng/L	75.2 ng/L	5.48 ng/L			2.99 ng/L	16.9 ng/L	
Company Comp																		
Section Column																		
Commonweigness																		
Company	561171611716																	
Company	Sample Point 3	Toluene	Acetone	1,4 Dichlorobenzene	Tetrachloroethene	PFBA	PFPeA	PFBS	PFHxA	PFPeS	PFHpA	PFHxS	PFOA	PFHpS	PFNA	PFOSA	PFOS	EtFOSAA
181 F 750	GW-VOCs	.62 ug/L	5.0 ug/L															
187 PM						3.72 mg/L	4.86 ng/L	2.39 ng/L		3.03 ng/L		31.0 ng/L	4.87 ng/L				43 ng/L	
1840-1869-1869-1869-1869-1869-1869-1869-1869																		
Section Common																		
Part	Soil-AG PFAS																	
WORLD Color Colo																		
March Marc	Sample Point 4	Toluene	Acetone	1,4 Dichlorobenzene	Tetrachloroethene	PFBA	PFPeA	PFBS	PFHxA	PFPeS	PFHpA	PFHxS	PFOA	PFHpS	PFNA	PFOSA	PFOS	EtFOSAA
ALT PARTIES OF THE PA	GW-VOCs	.45 ug/L	4.2 ug/L															
14 A. C.						5.98 ng/L	16.1 ng/L	12.3 ng/L	14.1 ng/L	8.49 ng/L	6.99 ng/L	116 ng/L	17.4 ng/L	5.01 ng/L		2.19 ng/L	58.4 ng/L	
Section Column																		
Second S																		
March Marc	Soil-AG PFAS																	
2000 2000																		
20 PRES. 1	Sample Point 5	Toluene	Acetone	1,4 Dichlorobenzene	Tetrachloroethene	PFBA	PFPeA	PFBS	PFHxA	PFPeS	PFHpA	PFHxS	PFOA	PFHpS	PFNA	PFOSA	PFOS	EtFOSAA
801 2 FOOG	GW-VOCs	0.44 ug/L	5.1 ug/L															
Section Column	GW-PFAS					3.55 ng/L	2.48 ng/L	16.4 ng/L	4.06 ng/L	7.18 ng/L	1.74 ng/L	103 ng/L	5.91 ng/L			2.56 ng/L	9.17 ng/L	
Comparing Comp																		
Section Column																		
Simple Front 8 Telums Actions July Schlosophospace Telumonocomput Te	Soil-AG PFAS																	
WATER WATE																		
No.	Sample Point 6	Toluene	Acetone	1,4 Dichlorobenzene	Tetrachloroethene	PFBA	PFPeA	PFBS	PFHxA	PFPeS	PFHpA	PFHxS	PFOA	PFHpS	PFNA	PFOSA	PFOS	EtFOSAA
001-12-17-05-Cs 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	GW-VOCs	.51 ug/L		.40 ug/L														
803 2 2 7953	GW-PFAS					10.5 ng/L	11.4 ng/L	4.11 ng/L	9.24 ng/L			9.36 ng/L	2.27 ng/L	1.7 ng/L			271 ng/L	2.69 ng/L
Section Control Cont																	(
Section Part Column Part Column Part Column Part																	.446 ng/L	
Part																	1 15 ng/l	
2000 2000	3011-AG F1 A3																1.13 Hg/L	
2000 2000	Sample Point 7	Toluene	Acetone	1,4 Dichlorobenzene	Tetrachloroethene	PFBA	PFPeA	PFBS	PFHxA	PFPeS	PFHpA	PFHxS	PFOA	PFHpS	PFNA	PFOSA	PFOS	EtFOSAA
Start Star	GW-VOCs																	
Sall 37 9745. Olida Principal Control	GW-PFAS					5.68 ng/L	10.6 ng/L	4.60 ng/L	8.25 ng/L		2.44 ng/L	61.2 ng/L	5.79 ng/L	1.05 ng/L		2.27 ng/L	18.4 ng/L	
Sale AVICY: Comparison of C	Soil-1-2' VOCs																	
Selection Tolume Actions 1,4 Dichlorobenson Tetrachiorosthene PRA PPRA	Soil-1-2' PFAS																	
Tolume Actions Actio																		
WATER 15 may 15	SUII-AG FFAS																	
SWORD 25 upl. S	Comple Dei-+ 0						DED 4	DEDC	DEHγΔ	PFPeS	PFHpA	PFHxS	PFOA	PFHpS	PFNA	PFOSΔ	PFOS	F+EOSAA
WFMS	Dample Point 8	Toluene	Acetone	l1.4 Dichlorobenzene	Tetrachloroethene	PFBA	IPFPEA				· · · · · p · · ·							
Select PRAS				1,4 Dichlorobenzene	Tetrachloroethene	PFBA	PFPEA	FFD3	TTTIAA							11034		LIIOJAA
Solida GOVGS	GW-VOCs GW-PFAS			1,4 Dichlorobenzene	Tetrachloroethene	PFBA					2.55 ng/L	57.0 ng/L	11.0 ng/L					Ellosaa
Second Company Compa	GW-VOCs GW-PFAS Soil-1-2' VOCs			1,4 Dichlorobenzene	Tetrachloroethene	PFBA					2.55 ng/L	57.0 ng/L	11.0 ng/L					LIIOSAA
Tolume Acton 1,4 Dichlorochenen 1,4 Dichlor	GW-VOCs GW-PFAS Soil-1-2' VOCs Soil-1-2' PFAS			1,4 Dichlorobenzene	Tetrachloroethene	PFBA					2.55 ng/L	57.0 ng/L	11.0 ng/L				128/ng/L	Ettosaa
SWYPAS S	GW-VOCs GW-PFAS Soil-1-2' VOCs Soil-1-2' PFAS Soil-AG VOCs			1,4 Dichlorobenzene	Tetrachloroethene	PFBA					2.55 ng/L	57.0 ng/L	11.0 ng/L				128/ng/L .518 ng/L	Eti OSAA
SWYPAS S	GW-VOCs GW-PFAS Soil-1-2' VOCs Soil-1-2' PFAS			1,4 Dichlorobenzene	Tetrachloroethene	PFBA					2.55 ng/L	57.0 ng/L	11.0 ng/L				128/ng/L .518 ng/L	Eti OSAA
SW-PFAS	GW-VOCS GW-PFAS Soil-1-2' VOCs Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS	.26 ug/L	5.2 ug/L				5.58 ng/L	2.59 ng/L	7.66 ng/L	DEDOC				17.9 ng/L		7.90 ng/L	.518 ng/L .826 ng/L	
1001-12 PPAS	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9	.26 ug/L	5.2 ug/L		Tetrachloroethene		5.58 ng/L	2.59 ng/L	7.66 ng/L	PFPeS				17.9 ng/L		7.90 ng/L	.518 ng/L .826 ng/L	
	GW-VOCS GW-PFAS Soil-1-2' VOCs Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS	.26 ug/L	5.2 ug/L		Tetrachloroethene		5.58 ng/L PFPeA	2.59 ng/L	7.66 ng/L PFHxA	PFPeS	PFHpA	PFHxS	PFOA	17.9 ng/L PFHpS		7.90 ng/L PFOSA	128/ng/L .518 ng/L .826 ng/L	
Solition Property	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS	.26 ug/L	5.2 ug/L		Tetrachloroethene		5.58 ng/L PFPeA	2.59 ng/L	7.66 ng/L PFHxA	PFPeS	PFHpA	PFHxS	PFOA	17.9 ng/L PFHpS		7.90 ng/L PFOSA	128/ng/L .518 ng/L .826 ng/L	
Sample Point 10	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS	.26 ug/L	5.2 ug/L		Tetrachloroethene		5.58 ng/L PFPeA	2.59 ng/L	7.66 ng/L PFHxA	PFPeS	PFHpA	PFHxS	PFOA	17.9 ng/L PFHpS		7.90 ng/L PFOSA	128/ng/L .518 ng/L .826 ng/L	
SW-VPCS	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS	.26 ug/L	5.2 ug/L		Tetrachloroethene		5.58 ng/L PFPeA	2.59 ng/L	7.66 ng/L PFHxA	PFPeS	PFHpA	PFHxS	PFOA	17.9 ng/L PFHpS		7.90 ng/L PFOSA	128/ng/L .518 ng/L .826 ng/L	
SW-VPCS	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS	.26 ug/L	5.2 ug/L		Tetrachloroethene		5.58 ng/L PFPeA	2.59 ng/L	7.66 ng/L PFHxA	PFPeS	PFHpA	PFHxS	PFOA	17.9 ng/L PFHpS		7.90 ng/L PFOSA	128/ng/L .518 ng/L .826 ng/L	
3.68 mg/L 3.68	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS	Toluene .43 ug/L	5.2 ug/L Acetone	1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L	PFBA	5.58 ng/L PFPeA 4.65 ng/L	2.59 ng/L PFBS	7.66 ng/L PFHxA 3.78 ng/L		PFHpA 3.28 ng/L	PFHxS 25.6 ng/L	PFOA 16.7 ng/L	17.9 ng/L PFHpS 1.63 ng/L	PFNA	7.90 ng/L PFOSA 3.06 ng/L	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L	EtFOSAA
Soil-12-17-16-25	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Soil-AG PFAS	Toluene .43 ug/L	5.2 ug/L Acetone	1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L	PFBA	5.58 ng/L PFPeA 4.65 ng/L	2.59 ng/L PFBS	7.66 ng/L PFHxA 3.78 ng/L		PFHpA 3.28 ng/L	PFHxS 25.6 ng/L	PFOA 16.7 ng/L	17.9 ng/L PFHpS 1.63 ng/L	PFNA	7.90 ng/L PFOSA 3.06 ng/L	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L	EtFOSAA
Solition	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS	Toluene .43 ug/L	5.2 ug/L Acetone	1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L	PFBA	5.58 ng/L PFPeA 4.65 ng/L PFPeA	2.59 ng/L PFBS	7.66 ng/L PFHxA 3.78 ng/L		PFHpA 3.28 ng/L	PFHxS 25.6 ng/L PFHxS	PFOA PFOA	17.9 ng/L PFHpS 1.63 ng/L	PFNA	PFOSA PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L	EtFOSAA
Field Dup Toluene Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPA PFBS PFHA PFPS PFHA PFPA PFHA PFHA PFPA PFHA PFH	GW-VOCS GW-PFAS Soil-1-2' VPCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 10 GW-VOCS	Toluene .43 ug/L	5.2 ug/L Acetone	1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L	PFBA	5.58 ng/L PFPeA 4.65 ng/L PFPeA	2.59 ng/L PFBS	7.66 ng/L PFHxA 3.78 ng/L		PFHpA 3.28 ng/L	PFHxS 25.6 ng/L PFHxS	PFOA PFOA	17.9 ng/L PFHpS 1.63 ng/L	PFNA	PFOSA PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L	EtFOSAA
Tolluen	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS	Toluene .43 ug/L	5.2 ug/L Acetone	1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L	PFBA	5.58 ng/L PFPeA 4.65 ng/L PFPeA	2.59 ng/L PFBS	7.66 ng/L PFHxA 3.78 ng/L		PFHpA 3.28 ng/L	PFHxS 25.6 ng/L PFHxS	PFOA PFOA	17.9 ng/L PFHpS 1.63 ng/L	PFNA	PFOSA PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L	EtFOSAA
30 kg/L 30 k	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-AG VOCS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-AG PFAS Soil-AG PFAS Soil-AG PFAS Soil-AG PFAS Soil-AG PFAS Soil-AG PFAS	Toluene .43 ug/L	5.2 ug/L Acetone	1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L	PFBA	5.58 ng/L PFPeA 4.65 ng/L PFPeA	2.59 ng/L PFBS	7.66 ng/L PFHxA 3.78 ng/L		PFHpA 3.28 ng/L	PFHxS 25.6 ng/L PFHxS	PFOA PFOA	17.9 ng/L PFHpS 1.63 ng/L	PFNA	PFOSA PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L	EtFOSAA
30 kg/L 30 k	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS	Toluene .43 ug/L	5.2 ug/L Acetone	1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L	PFBA	5.58 ng/L PFPeA 4.65 ng/L PFPeA	2.59 ng/L PFBS	7.66 ng/L PFHxA 3.78 ng/L		PFHpA 3.28 ng/L	PFHxS 25.6 ng/L PFHxS	PFOA PFOA	17.9 ng/L PFHpS 1.63 ng/L	PFNA	PFOSA PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L	EtFOSAA
3.86 ng/L	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS	Toluene .43 ug/L Toluene .41 ug/L	Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene	PFBA	PFPeA 4.65 ng/L PFPeA 3.68 ng/L	2.59 ng/L PFBS PFBS	PFHxA 3.78 ng/L	PFPeS	PFHpA 3.28 ng/L PFHpA	PFHxS 25.6 ng/L PFHxS 13.6 ng/L	PFOA 16.7 ng/L PFOA 2.12 ng/L	PFHpS 1.63 ng/L PFHpS	PFNA 1.27 ng/L	PFOSA 3.06 ng/L PFOSA 3.98 ng/L	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 73.7 ng/L	ERFOSAA
Composite TOC Samples Total Organic Carbon Total Organic Carbo	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-3-2' PFAS Soil-4G VOCS Soil-4G PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-1-2' PFAS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-1-2' PFAS	Toluene .43 ug/L Toluene .41 ug/L Toluene	Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene	PFBA	PFPeA 4.65 ng/L PFPeA 3.68 ng/L	2.59 ng/L PFBS PFBS	PFHxA 3.78 ng/L	PFPeS	PFHpA 3.28 ng/L PFHpA	PFHxS 25.6 ng/L PFHxS 13.6 ng/L	PFOA 16.7 ng/L PFOA 2.12 ng/L	PFHpS 1.63 ng/L PFHpS	PFNA 1.27 ng/L	PFOSA 3.06 ng/L PFOSA 3.98 ng/L	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 73.7 ng/L	ERFOSAA
SW-PFAS SU SU SU SU SU SU SU	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' PFAS Soil-AG PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Field Dup GW-VOCS	Toluene .43 ug/L Toluene .41 ug/L Toluene	Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene	PFBA PFBA	PFPeA 3.68 ng/L PFPeA PFPeA	2.59 ng/L PFBS PFBS	PFHxA PFHxA PFHxA	PFPeS	PFHpA PFHpA PFHpA	PFHxS 25.6 ng/L PFHxS 13.6 ng/L	PFOA 2.12 ng/L PFOA	PFHpS 1.63 ng/L PFHpS PFHpS	PFNA 1.27 ng/L	PFOSA 3.06 ng/L PFOSA 3.98 ng/L	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 73.7 ng/L	ERFOSAA
SW-PFAS SW-PFAS SW-PFAS SW-PFAS SW-PFAS SW-PFAS Total Organic Carbon Total	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-3-2' PFAS Soil-4G VOCS Soil-4G PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-1-2' PFAS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-1-2' PFAS	Toluene .43 ug/L Toluene .41 ug/L Toluene	Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene	PFBA PFBA	PFPeA 3.68 ng/L PFPeA PFPeA	2.59 ng/L PFBS PFBS	PFHxA PFHxA PFHxA	PFPeS	PFHpA PFHpA PFHpA	PFHxS 25.6 ng/L PFHxS 13.6 ng/L	PFOA 2.12 ng/L PFOA	PFHpS 1.63 ng/L PFHpS PFHpS	PFNA 1.27 ng/L	PFOSA 3.06 ng/L PFOSA 3.98 ng/L	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 73.7 ng/L	ERFOSAA
Toluene Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPA PFBS PFHA PFPS PFHA PFPS PFNA PFOA PFNA PFOSA PFOS EtFOSAA FOSI-PFAS Toluene Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPA PFBS PFHA PFPS PFNA PFPS PFNA PFOSA PFOS EtFOSAA FOSI-PFAS Toluene Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPA PFBS PFHA PFPS PFNA PFPS PFNA PFOSA PFOS EtFOSAA FOSI-PFAS Equip Blank Toluene Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPA PFBS PFHA PFPS PFNA PFPS PFNA PFOSA PFOS EtFOSAA FOSI-PFAS Toluene Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPA PFBS PFHA PFPS PFNA PFPS PFNA PFOSA PFOS EtFOSAA FOSI-PFAS Total Organic Carbon Total Organic Carbon Total Organic Carbon PfNA PFOSA PFOS PFNA PFOSA PFOS EtFOSAA FOSI-PFAS F	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' PFAS Soil-AG PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Field Dup GW-VOCS	Toluene .43 ug/L Toluene .41 ug/L Toluene .30 ug/L	Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L	PFBA PFBA 3.86 ng/L	5.58 ng/L PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L	PFBS PFBS 2.53 ng/L	PFHxA PFHxA 2.85 ng/L	PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L	PFHxS 25.6 ng/L PFHxS 13.6 ng/L PFHxS 30.4 ng/L	PFOA 2.12 ng/L PFOA 16.2 ng/L	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS	PFNA 1.27 ng/L	7.90 ng/L PFOSA 3.06 ng/L PFOSA 3.98 ng/L PFOSA 2.70 ng/L	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.2 ng/L	ERFOSAA
Soil-PFAS Soil-PFAS Soil-	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-3-2' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-3-4' PFAS Soil-3-5' PFAS Soil-3-6' PFAS Field Dup GW-VOCS GW-PFAS Groundwater Field Blank (#9) GW-VOCS	Toluene .43 ug/L Toluene .41 ug/L Toluene .30 ug/L	Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L	PFBA PFBA 3.86 ng/L	5.58 ng/L PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L	PFBS PFBS 2.53 ng/L	PFHxA PFHxA 2.85 ng/L	PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L	PFHxS 25.6 ng/L PFHxS 13.6 ng/L PFHxS 30.4 ng/L	PFOA 2.12 ng/L PFOA 16.2 ng/L	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS	PFNA 1.27 ng/L	7.90 ng/L PFOSA 3.06 ng/L PFOSA 3.98 ng/L PFOSA 2.70 ng/L	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.2 ng/L	ERFOSAA
Soil-PFAS Soil-PFAS Soil-	GW-VOCS GW-PFAS Soil-1-2' VPCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VPCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG PFAS Field Dup GW-VOCS GW-PFAS GW-PFAS Groundwater Field Blank (#9)	Toluene .43 ug/L Toluene .41 ug/L Toluene .30 ug/L	Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L	PFBA PFBA 3.86 ng/L	5.58 ng/L PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L	PFBS PFBS 2.53 ng/L	PFHxA PFHxA 2.85 ng/L	PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L	PFHxS 25.6 ng/L PFHxS 13.6 ng/L PFHxS 30.4 ng/L	PFOA 2.12 ng/L PFOA 16.2 ng/L	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS	PFNA 1.27 ng/L	7.90 ng/L PFOSA 3.06 ng/L PFOSA 3.98 ng/L PFOSA 2.70 ng/L	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.2 ng/L	ERFOSAA
Toluene Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPA PFBS PFHA PFPS PFHA P	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-3' VOCS GW-PFAS Soil-1-3' VOCS GW-PFAS	Toluene .41 ug/L Toluene .30 ug/L	Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L	PFBA PFBA 3.86 ng/L	PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L PFPeA	PFBS PFBS PFBS PFBS PFBS	PFHxA 3.78 ng/L PFHxA PFHxA PFHxA PFHxA	PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L	PFHxS 25.6 ng/L PFHxS 13.6 ng/L PFHxS 30.4 ng/L	PFOA 2.12 ng/L PFOA 16.2 ng/L	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS PFHpS	PFNA 1.27 ng/L PFNA PFNA	PFOSA 3.06 ng/L PFOSA 3.98 ng/L PFOSA 2.70 ng/L PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.7 ng/L PFOS 31.2 ng/L	EtFOSAA
SW-VOCS GW-PFAS Tolune Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPeA PFBS PFHA PFPeS PFHA PFNS PFOA PFNS PFNA PFOSA PFOS EtFOSAA GW-VOCS GW-PFAS Total Organic Carbon TOC 1-3 5180 mg/kg TOC 4-6 3650 mg/kg TOC 9 8670 mg/kg	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-1-2' PFAS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG PFAS Field Dup GW-VOCS GW-PFAS Field Dup GW-VOCS GW-PFAS Groundwater Field Blank (#9) GW-VOCS GW-PFAS Soil-1-2' FFAS Soil-1-2' FFAS Soil-1-2' FFAS Soil-1-2' PFAS	Toluene .41 ug/L Toluene .30 ug/L	Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L	PFBA PFBA 3.86 ng/L	PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L PFPeA	PFBS PFBS PFBS PFBS PFBS	PFHxA 3.78 ng/L PFHxA PFHxA PFHxA PFHxA	PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L	PFHxS 25.6 ng/L PFHxS 13.6 ng/L PFHxS 30.4 ng/L	PFOA 2.12 ng/L PFOA 16.2 ng/L	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS PFHpS	PFNA 1.27 ng/L PFNA PFNA	PFOSA 3.06 ng/L PFOSA 3.98 ng/L PFOSA 2.70 ng/L PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.7 ng/L PFOS 31.2 ng/L	EtFOSAA EtFOSAA EtFOSAA
SW-VOCS GW-PFAS Tolune Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPeA PFBS PFHA PFPeS PFHA PFNS PFOA PFNS PFNA PFOSA PFOS EtFOSAA GW-VOCS GW-PFAS Total Organic Carbon TOC 1-3 5180 mg/kg TOC 4-6 3650 mg/kg TOC 9 8670 mg/kg	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-3' VOCS GW-PFAS Soil-1-3' VOCS GW-PFAS	Toluene .41 ug/L Toluene .30 ug/L	Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L	PFBA PFBA 3.86 ng/L	PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L PFPeA	PFBS PFBS PFBS PFBS PFBS	PFHxA 3.78 ng/L PFHxA PFHxA PFHxA PFHxA	PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L	PFHxS 25.6 ng/L PFHxS 13.6 ng/L PFHxS 30.4 ng/L	PFOA 2.12 ng/L PFOA 16.2 ng/L	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS PFHpS	PFNA 1.27 ng/L PFNA PFNA	PFOSA 3.06 ng/L PFOSA 3.98 ng/L PFOSA 2.70 ng/L PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.7 ng/L PFOS 31.2 ng/L	EtFOSAA
SW-PFAS Composite TOC Samples Total Organic Carbon Total Organic Carbon Total Organic Carbon Total Organic Mark Total Orga	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-3-2' PFAS Soil-4G VOCS Soil-4G PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-4G PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-4G VOCS Soil-1-2' PFAS Soil-AG PFAS Field Dup GW-VOCS GW-PFAS Groundwater Field Blank (#9) GW-VOCS GW-PFAS Soil-GW-PFAS Soil-GW-PFAS Groundwater Field Blank (#9) GW-VOCS GW-PFAS Soil-Field Blank (#7-1-2') Soil-PFAS	Toluene .43 ug/L Toluene .41 ug/L Toluene .30 ug/L Toluene .50 ug/L	Acetone Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L Tetrachloroethene	PFBA PFBA 3.86 ng/L PFBA	PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L PFPeA 4.56 ng/L	PFBS PFBS PFBS PFBS PFBS	PFHxA 2.85 ng/L PFHxA PFHxA	PFPeS PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L PFHpA	PFHxS 25.6 ng/L	PFOA 16.7 ng/L PFOA 2.12 ng/L PFOA 16.2 ng/L PFOA	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS PFHpS PFHpS	PFNA 1.27 ng/L PFNA PFNA	PFOSA 3.98 ng/L PFOSA 2.70 ng/L PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.2 ng/L PFOS	ERFOSAA ERFOSAA ERFOSAA
Toluene Acetone 1,4 Dichlorobenzene Tetrachloroethene PFBA PFPA PFBS PFHA PFPS PFHA P	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-1-2' PFAS Soil-1-2' PFA	Toluene .43 ug/L Toluene .41 ug/L Toluene .30 ug/L Toluene .50 ug/L	Acetone Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L Tetrachloroethene	PFBA PFBA 3.86 ng/L PFBA	PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L PFPeA 4.56 ng/L	PFBS PFBS PFBS PFBS PFBS	PFHxA 2.85 ng/L PFHxA PFHxA	PFPeS PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L PFHpA	PFHxS 25.6 ng/L	PFOA 16.7 ng/L PFOA 2.12 ng/L PFOA 16.2 ng/L PFOA	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS PFHpS PFHpS	PFNA 1.27 ng/L PFNA PFNA	PFOSA 3.98 ng/L PFOSA 2.70 ng/L PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.2 ng/L PFOS	ERFOSAA ERFOSAA ERFOSAA
SW-VOCS SW-PFAS SW-PFAS Total Organic Carbon TOC 1-3 5180 mg/kg TOC 4-6 3650 mg/kg TOC 9 8670 mg/kg TOC 9 8670 mg/kg	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-3-2' PFAS Soil-4G VOCS Soil-4G PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-4G PFAS Sample Point 10 GW-VOCS GW-PFAS Soil-4G VOCS Soil-1-2' PFAS Soil-AG PFAS Field Dup GW-VOCS GW-PFAS Groundwater Field Blank (#9) GW-VOCS GW-PFAS Soil-GW-PFAS Soil-GW-PFAS Groundwater Field Blank (#9) GW-VOCS GW-PFAS Soil-Field Blank (#7-1-2') Soil-PFAS	Toluene .43 ug/L Toluene .41 ug/L Toluene .30 ug/L Toluene .50 ug/L	Acetone Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L Tetrachloroethene	PFBA PFBA 3.86 ng/L PFBA	PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L PFPeA 4.56 ng/L	PFBS PFBS PFBS PFBS PFBS	PFHxA 2.85 ng/L PFHxA PFHxA	PFPeS PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L PFHpA	PFHxS 25.6 ng/L	PFOA 16.7 ng/L PFOA 2.12 ng/L PFOA 16.2 ng/L PFOA	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS PFHpS PFHpS	PFNA 1.27 ng/L PFNA PFNA	PFOSA 3.98 ng/L PFOSA 2.70 ng/L PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.2 ng/L PFOS	EtFOSAA EtFOSAA EtFOSAA
Composite TOC Samples	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-1-2' PFAS Soil-AG PFAS Field Dup GW-VOCS GW-PFAS Field Dup GW-VOCS GW-PFAS Groundwater Field Blank (#9) GW-VOCS GW-PFAS Soil-1-1-2' Soil-1-1-1-2' Soil-1-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Toluene .43 ug/L Toluene .41 ug/L Toluene .30 ug/L Toluene .50 ug/L	Acetone Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L Tetrachloroethene	PFBA PFBA 3.86 ng/L PFBA	PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L PFPeA 4.56 ng/L	PFBS PFBS PFBS PFBS PFBS	PFHxA 2.85 ng/L PFHxA PFHxA	PFPeS PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L PFHpA	PFHxS 25.6 ng/L	PFOA 16.7 ng/L PFOA 2.12 ng/L PFOA 16.2 ng/L PFOA	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS PFHpS PFHpS	PFNA 1.27 ng/L PFNA PFNA	PFOSA 3.98 ng/L PFOSA 2.70 ng/L PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.2 ng/L PFOS	EtFOSAA EtFOSAA EtFOSAA
Composite TOC Samples	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-AG VOCS Soil-AG PFAS Sample Point 9 GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-AG VOCS Soil-1-2' PFAS Soil-AG PFAS Field Dup GW-VOCS GW-PFAS Field Dup GW-VOCS GW-PFAS Groundwater Field Blank (#9) GW-VOCS GW-PFAS Soil-1-1-2' Soil-1-1-1-2' Soil-1-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-2' Soil-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Toluene .43 ug/L Toluene .41 ug/L Toluene .30 ug/L Toluene .50 ug/L	Acetone Acetone Acetone Acetone Acetone	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L Tetrachloroethene Tetrachloroethene	PFBA PFBA 3.86 ng/L PFBA PFBA	PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L PFPeA PFPeA	PFBS PFBS PFBS PFBS PFBS	PFHxA PFHxA 2.85 ng/L PFHxA PFHxA	PFPeS PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L PFHpA PFHpA	PFHxS 25.6 ng/L	PFOA 2.12 ng/L PFOA 16.2 ng/L PFOA PFOA	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS PFHpS PFHpS PFHpS	PFNA PFNA PFNA PFNA	PFOSA 2.70 ng/L PFOSA PFOSA PFOSA PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.2 ng/L PFOS PFOS PFOS	Etfosaa Etfosaa Etfosaa Etfosaa Etfosaa
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TOC 9 8670 mg/kg	GW-VOCS GW-PFAS Soil-1-2' VOCS Soil-3-2' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-3-4' PFAS Soil-3-2' PFAS Soil-1-2' PFAS Soil-1-2' PFAS Soil-3-4' PFAS Field Dup GW-VOCS GW-PFAS Soil-3-4' PFAS Soil-3-4'	Toluene .30 ug/L Toluene .31 ug/L Toluene .30 ug/L Toluene .50 ug/L Toluene .50 ug/L Toluene	Acetone Acetone Acetone Acetone Acetone Acetone Carbon	1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene 1,4 Dichlorobenzene	Tetrachloroethene .69 ug/L Tetrachloroethene Tetrachloroethene .70 ug/L Tetrachloroethene Tetrachloroethene	PFBA PFBA 3.86 ng/L PFBA PFBA	PFPeA 4.65 ng/L PFPeA 3.68 ng/L PFPeA 4.56 ng/L PFPeA PFPeA	PFBS PFBS PFBS PFBS PFBS	PFHxA PFHxA 2.85 ng/L PFHxA PFHxA	PFPeS PFPeS PFPeS	PFHpA 3.28 ng/L PFHpA PFHpA 3.17 ng/L PFHpA PFHpA	PFHxS 25.6 ng/L	PFOA 2.12 ng/L PFOA 16.2 ng/L PFOA PFOA	PFHpS 1.63 ng/L PFHpS 1.63 ng/L PFHpS PFHpS PFHpS PFHpS	PFNA PFNA PFNA PFNA	PFOSA 2.70 ng/L PFOSA PFOSA PFOSA PFOSA PFOSA	128/ng/L .518 ng/L .826 ng/L PFOS 27.3 ng/L PFOS 31.2 ng/L PFOS PFOS PFOS	EtFOSAA EtFOSAA EtFOSAA EtFOSAA EtFOSAA
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July 21, 2021

Lt. Colonel Mike Dunlap Wisconsin Air National Guard; 115CES/CEIE Dane County Regional Airport 3110 Mitchell Street, Building 1210 Madison, WI 53704

Subject: Modification of Previously Approved Materials Management Plans; F-35 Construction Projects, Wisconsin Air National Guard 115CES/CEIE, Dane County Regional Airport, Madison BRRTs #02-13-585319

Dear Lt. Colonel Dunlap:

The Wisconsin Department of Natural Resources (DNR) received a revised materials management plan (MMP) on July 16, 2021 for construction activities related to base modifications necessary for the placement of F-35 jets to the Wisconsin Air National Guard (WANG) base located at the Dane County Airport. This MMP outlines a process for WANG to manage soil and groundwater that is generated during construction activities at the base.

WANG had previously submitted, and DNR had approved, MMPs for several individual construction projects. The July 16, 2021 submittal is meant to replace the previous individually approved MMPs with an overall MMP that will cover all the F-35 construction projects and ensure that contaminated soil is managed in a consistent manner as construction proceeds. The revised proposal calls for segregating soil that contains PFAS compounds from soil that doesn't. Soil that doesn't contain PFAS compounds could be used as clean fill either in on site projects, or, taken from the WANG base and used at another location. Soil containing PFAS compounds would be used at the project area where it originated, or another F-35 construction project on base. This soil will be placed in an area where groundwater presently contains PFAS compounds and it will be placed at a location of a planned impervious surface (i.e., under a building, asphalt, or concrete) as part of the F-35 construction project.

Included with the July 16, 2021 MMP plan are PFAS analytical results of soil and groundwater samples collected from an area to the west of Building 1209. These data indicate that both soil and groundwater in that area contain very high levels of PFAS compounds. PFAS concentrations are similar to those collected at the fire station located adjacent and to the north from the area west of building 1209.

This letter will serve as an approval for the overall approach to managing PFAS contaminated soil at the WANG base at Truax. The WANG will also submit individual maps from each project where soil will be generated. Those maps will present the soil PFAS analytical data gathered at each location and will also present proposed interpretive boundaries between areas of PFAS containing soils and non-PFAS containing soils.

This MMP approval letter is only addressing PFAS contamination in soil. There is PFAS contaminated groundwater throughout the WANG base. Groundwater dewatering is not anticipated for this construction project. This is based on depth to water from the borings completed at this location, and from experience WANG has gained from other construction projects WANG has completed in the past. As such, DNR understands that WANG does not intend to seek a wastewater discharge permit ahead of construction activities. If groundwater is encountered the MMP states that the water will be containerized and sampled. WANG will then either work with the DNR to gain a WPDES permit, or, gain approval from the Madison Metropolitan Sewerage District for discharging to the municipal sewer system.

Plan Approval

The Materials Management Plan is approved subject to the following conditions:

- 1. Management of excavated soil in conformance with the approved materials management plan shall be completed within one year of the effective date of this letter unless a written extension of this condition is obtained from the DNR.
- 2. The Wisconsin Air National Guard shall manage excavated material in conformance with the approved materials management plan and shall notify the DNR within 24 hours of discovering material that is not consistent with the contaminant characteristics that have been reported to the DNR or if there are visual or olfactory indications of a contaminant discharge. That material must be segregated and tested to determine appropriate disposal options.
- 3. If areas of unanticipated soil contamination or discovery of underground storage tanks, piping, drums, etc. are encountered, the DNR shall be notified within 24 hours and appropriate actions to investigate, evaluate, and deal with the situation shall be proposed. Notification of discharge shall be submitted to the Department in accordance with s. NR 706.05(1).
- 4. The Wisconsin Air National Guard is responsible for obtaining any local, federal, or other applicable state permits to carry out this project. If more than one acre of land is disturbed, a stormwater permit may be required. Contact the DNR's Stormwater Manager to determine what, if any, permit is needed.
- 5. The Wisconsin Air National Guard shall comply with requirements of s. NR 718.12(2)(d) and (e) Wis. Adm. Code as needed or appropriate.
- 6. The Wisconsin Air National Guard shall submit a documentation report to the DNR within 90 days of substantial completion of the redevelopment project. The report shall contain the following items:
- a. As-built drawings documenting compliance with the above conditions of approval.
- b. A narrative description of how the above conditions were accomplished including relevant documentation.
- c. Color photographs documenting construction aspects addressed in this approval.
- d. Documentation of excavation and soil placement activities. The report shall include the description of the total volume and final location/disposition of relocated material.
- 7. If there is contaminated soil remaining in the area west of B1209 at the completion of the F-35 construction projects WANG shall submit a plan for a permanent resolution for addressing this remaining soil.

The DNR reserves the right to require the submittal of additional information or to modify or revoke this MMP approval if the Wisconsin Air National Guard fails to comply with the requirements of the proposed MMP. The DNR also retains its right to modify or revoke this approval if circumstances or conditions change, or if new information is found which would warrant modification or revocation of this approval.

If you have any questions regarding this approval, please contact Steve Ales at stephenm.ales@wisconsin.gov or 608-400-9187.

Sincerely,

Steven L. Martin, P.G

South Central Region Team Supervisor Remediation & Redevelopment Program

Cc: Steve Ales – RR/5, GEF 2

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