Site Name:	er Wurtsmith AFB
	2021
Project Number: (4)	
Field Staff: J. N	0588
Time	Observation/Note
07:35	AECOM on-site. Aerostar conducting pre-field activities
08:25	Mobilizing to BOA
08:22	Entered BOA. Setup Acrostar setting up on,
	WURSBO43. Drillers having mechanical issues w/
	their rig.
09:15	Frontz (Drilles) found blass fuse on rig. Frontz off-site
	to purchase replacement fuse.
09:50	Frontz on-site and replacing fuce on rige
10:00	Begin WURSBOY3. Planned EGLE split samples: 0.5-2.0ff
	and deepest interval.
10:42	Split sample collected. Sample ID: SB2109081042TM
	(EGLE), WURO8039 (Air Force). WURSBOY3 + boiling
	location ID:
11:20	Saturated sediment encountered @ ~ 14-15 ft bgs.
	Deepest sample interval 10-12 ft bgs. Depth to water measured
	in deill stem => 15.6 ft bgs. Split sample @ WURSBO43
	collected. Sample ID: SR2109081120JM (EGLE)
	WURO8042 (Air Force).
11:35	Aerostar moving to WURSBO42.
12:25	Aerostar break for lunch.
12:50	Frontz having issues w/ electrical on their rige
13:15	Electrical issue resolved. Aerostur move to iduBo
	WURSBOHH.
14:30	Acrostar completed WURSBO44. Moving to WURSBO45
15:20	to Acrostar completed WUROUS. Demobilizing for the
	day. Five locations left in the area. Drillers still
	having electrical issues & w/ rigo
16:30	Accom off-site
	m a/8/21

Site Name:	1 1 2 2 2		
Date: 09/09/2001			
Date: 09/09/2021  Project Number: 1.05/2014			
Project Number: 605to 14613  Field Staff: J. Mosse			
31,0111			
Time	Observation/Note		
07:45	AECOM onsion-site @ FT-02. Herostar plane to collect		
07:55	FT-02 TCRA waste profile soil sample. Rig Frontz drill rig having electrical issues and		
	won't starte		
08:15	Drill sig operational. Setting up on wurshigo. Accostar		
	Plans to collect PFAS samples from following intervals @		
	each location: 0-21+, 2-4ft, 4-6ft, 6-10ft, 10-water		
	table. TCLP soil samples will be collected from 0-5 ft,		
	105-10ft, 10 water table, for all locations, 5-10 for half		
	the locations, and 10-water table for the other half of		
	the locations.		
0290	Aerostar completed WURSBIAD & WURSBIAS. Set up on		
	WURSBIAGE EGLE to collect split sample planned for		
	4-left sample interval.		
1033	Ryan (Cherokee Nation) on-site.		
1100	Cherokee Nation off-site. Observed Acrostar taking		
	pictures of soil cores.		
1229	EGLE split sample collected from 4.0ft to le. Oft interval.		
	Sample IDC SB2109091229 JM (EGLE), WURD4633 (4.0-6.0)		
	(Air Forke). Location WURSBIGG.		
1240	Frontz completed collecting core a wursbigg. Aerostar		
	still collecting / Processing samples. Note: Measured static		
	water was 15.6 bgs down drill rods. Boring was terminated		
	a lle ft bgs. Break for Lunch		
1330	Front 2 set up on WUR191. No planned spl. + samples		
11111	for wuriging		
1442	No planned split sampling for today. AEcom off-site.		
	1 / JAh /9/9/21/		



site Name: Former Wuctsmith AFB Date: 09/10/2021 Project Number: 60514613 Field Staff: J. Morse Observation/Note On-site @ FT-02. Frontz set up on WURSB197 0745 Aerostar getting supplies. Stort Frontz begins WURSBIAZ, EGLE split samples 0810 planned for 4-left and deepest interval. Assostar collecting on equipment blank o 0820 ess steel spoons. Split sample collected from wurshigt, 4-10 ft bys. 0851 Sanda ID: SB2109100851JM (EGLESWUR04638 (4.0-6.0) (Air Force) 085 s Ryan (Cherokee Wation) on-site Split sample collected a wursbigt from 10-14 ft bas 2290 Sample IDs: SB2109100955JM (EGLE), WURO4640 (10-14) (Air Force) Aerostar measured duil and @ terminal depth of 20 ft has DTW = 18.2 ft Ryan (CheroKee Nution) off-site, Aerostar movingt 1010 WURSB198. Two split samples planned for this It and deepest interval. 1032 Split sample collected @WURSBIGE from 4.0-6.0 ft base Sample IDs: SB21091032JM (EGLE), WURO4643 (4.0-6.0) 1106 + sample collected a wursh 198 from 10-14 ft bass Sample ID: SB2109101106 JM (EGLE), WURO4645 (10-14) (Air Force) Aerostur marked an additional bosing location just south 1144 tormer concrete pad to associated w/ a studge disposal area. StaThe location ID is WURSB199. Aerostar plans to collect soil samples interesals the same as RI; 0.0-0.5, 0.5-9.0 2.0-4.0, 5.0-7.0, 10.0-AECOM to assess forest service land south of proposed 1150

FT-Od IRA extraction wells.

Site Name: T				
Date: 10/M	Site Name: Former Wurtsmith AFB			
Project Number:	21			
Project Number: 60514613				
Field Staff: J. Morse				
Time	Observation/Note			
1225	Walked path (hiking trail) from FTIRS+D down (west) to marsh, and followed path south along pond 1. Walking			
	path would be wide enough for a track mounted rige.			
	There were also areas & east of the path that a rig could			
	fit, w/o disturbing trees. Path was followed to end of road & dwhere EGLE Magintoring well MW is			
	located. Assessed food access to the west of road to			
	rig w/o removing trees.			
1255	Aecom off-site.			
	/ 9/10/7			
/				

### **AECOM**

Field Activity Log

Project Name Former Worlsmith AFB

Client EGLE

Location Oscoda/Worlsmith

Day SD MD TD WD THD FD ST

Contractor

Weather/Temp Partly Clardy G57

Equipment Onsite: Geopmbe		
Personnel Onsite	Frontz Drilling, Aerostar SES, AECOM	
	7,10112	
Work Performed	(summary of services performed, including field work):	
\$7:15:	AECOM onsite at Aerostar field office	
D7:20	Received Sample from Acroslar during \$09-10-21 Field Work.  Sample ID: SB 21 \$091\$ 1455 JM (EGLE), WUR \$0465\$ (10.0-12.0)	
	Sample ID: SB 21 0910 1455 TM (EGLE), WUR 04650 (10.0-12.0)	
	(Airforce)	
Ф7:50	Mobilization to FT-02 BOA WURSBOUG, no July Sample to be	
	taken	
ф7:55	Jeremiah called for a check-in	
\$8:20	Drillers began handaugering WURSBAUG	
ф8:25	Drillers began direct-push on WURSBA46	
Ф9:ФФ	Aerostar used WLM to get water level of 15.6 Ft bgs on	
	WUASBO46	
Ф9:10	Direct-push completed on WURSBO46 and mobilization to WURSBO47	
\$9:15	Aerastar Collected equipment blank on homogenization bowls	
p9:20	Drillers began hand-augering WURSB\$47	
09:25	Drillers began direct ash on WURSB047	
jo:00	Drillers used WLM to get water level of 13.9 ft bgs	
10:05	Aerostar Samples O.d-0.5, O-2.0, 2.0-4.0, 5.0-7.0, 10.0-12.0	
10:10	Drillers completed direct-push on WURSBOHT and mobilized to	
	WURSB 048	
10:15	Drillers began hand aggering WURSBOUS	
10:25	Drillers began direct-push on wars 3048	
1040	Appostar mited Sandy clay layer -8 St bas	
11:00	Perstar used WLM to get water level of 14.1 ft bgs	
11:45	Drillers completed direct-push on WURSAO48 Agrastar Sampled	
	0.0-0.5, 0.0-2.0, 2.0-4.0, 5.0-7.0, 10.0-12.0 Fl bgs on WURSDOYS	
11:15	mobilization to WURSBOSD	
11:30	Start of break	

Signed: Joshva Walker JeshWhl

Sheet \_\_\_\_of\_\_\_

# **AECOM**

Location Oscada/Wults mith Day SO MO TO WO THO FO SEE  Contractor Weather/Temp Sunny 65°C  Equipment Onsite: Geoprobe  Personnel Onsite: AECOM, Frontz drilling, Aerostar SES  Work Performed (summary of services performed, including field work):  Drilling oversight  11:50 Drillers Started hand augering wulstrothers  12:00 Drillers began direct-fush on Junks 18050  12:05 Aerostar Collected equipment blank on Sampling Spoon	Field Activ	vity Log				
Location Oscada/Wults mith Day SO MO TO WO THO FO SEE  Contractor Weather/Temp Sunny 65°C  Equipment Onsite: Geoprobe  Personnel Onsite: AECOM, Frontz drilling, Aerostar SES  Work Performed (summary of services performed, including field work):  Drilling oversight  11:50 Drillers Started hand augering wursperport  12:00 Drillers began direct-fush on Junks 1800  12:05 Aerostar Collected equipment blank on Sampling Spoon	Project Name_	Former Wurdsmith	APB Project No. 600	14613		
Contractor Weather/Temp Sunny 65° C  Equipment Onsite: Geoprobe  Personnel Onsite: AECOM, Frantz driving, Aerostar SES  Work Performed (summary of services performed, including field work):  Drilling oversight  11:50 Drillers Started hand augering wurstpotents  12:00 Drillers began direct-push on wurstbody  12:05 Aerostar collected equipment blank on Sampling Spoon	Client EGLE			21	, A XB A 7 7	
Equipment Onsite: Geoprobe  Personnel Onsite: AECOM, Frontz drilling, Aerostav SES  Work Performed (summary of services performed, including field work):  Drilling Oversight  11:50 Drillers Started hand augering wurstpd=850  12:00 Drillers began direct-push on wurstpd=850  12:05 Aerostar Collected equipment blank on Sampling Spoon	Location Oscoda/Wultsmith			_	S	Mokadais
Personnel Onsite: Geoprobe  Personnel Onsite: AECOM, Frontz drilling, Aerostav SES  Work Performed (summary of services performed, including field work):  Drilling oversight  11:50 Drillers Started hand avgering wuks 1304850  12:00 Drillers began direct-push on wuks 3050  12:05 Aerostar Collected equipment blank on Sampling Spoon	Contractor		Weather/Temp	Sunny 65°F		1.0470
Personnel Onsite: AECOM, Frontz drilling, Aerostar SES  Work Performed (summary of services performed, including field work):  Drilling oversight  11:50 Drillers Started hand avgering wursprotts 50  12:00 Drillers began direct-push on wurspoon  12:05 Aerostar collected equipment blank on Sampling Spoon					130L	Chrosola
Personnel Onsite: AECOM, Frontz drilling, Aerostar SES  Work Performed (summary of services performed, including field work):  Drilling oversight  11:50 Drillers Started hand augering wurstrop+850  12:00 Drillers began direct-push on wurstrop50  12:05 Aerostar collected equipment blank on Sampling Spoon	Equipment Ons	Geoprobe				
Work Performed (summary of services performed, including field work):  Drilling oversight  11:50 Drillers Started hand avaering wursts \$450  12:00 Drillers began direct-fush on wursts \$50  12:05 Ae (astar collected equipment blank on Sampling Spoon			A			
Work Performed (summary of services performed, including field work):  Drilling oversight  11:50 Drillers Started hand avaering wursted 4850  12:00 Drillers began direct-fush on wursted 50  12:05 Ae (astar collected equipment blank on Sampling Spoon	Personnel Ons	ite: AECOM, Frontz	drilling, Aerostar	SES		
Drillers Started hand augering WURSBOSD  12:00 Drillers began direct-push on WURSBOSD  12:05 Acrastar collected equipment blank on Sampling Spoon			9			
11:50 Drillers Started hand augering WURSBOTSO 12:00 Drillers began direct-push on WURSBOSD 12:05 Acrostar Collected equipment blank on Sampling Spoon			ed, including field work):		<del></del> -	
12:00 Drillers began direct-push on LURSBOSD 12:05 Acrastar collected equipment blank on Sampling Spoon	7			*	- 1	
12:05 Acrastar collected equipment blank on Sampling Spoon		Drillers Staffe	hand auge	ring WURS	(40 <del>48</del> )	50
12.24						
	12:05	Aerastar Collec	ted equipment	blank on	Samp	ling Spoon
	12:20	Jeremiah Calle				0
12:34 Aelostas used WLM to get Water level of 14.8 ft bgs. Aerostar	12:30				of 14	L. 8 St has Acrostar
Collected Samples 0.0-0.5, 0.0-2.0, 2.0-4.0, 5.0-7.0, 10.0-12.0 ft bas		Callegted Samples	10-0.5 00	-7 h 7 h -9	1 1 30	h-7 h la h-12 h B l-1
	12:44		,		-	
	12.14					
Split Sample to be collected 0.5-2.9 ft bgs and deepest interval	20,415	/		~ ~	and	deepest interval
12:45 Drillers began hand augering WURSDA49						
12:50 Drillers began dired-proh on WURSBOUG	12.50	Drillers began a	lired-push on	WURSBOUG		
12:55 Acrostar Gilected eggipment blank on homogenization bow	12:55	Aerostar Gilected	equipment bla	nk on hom	ogeniz	vation bow
13:02 Acrostar Collected Split sample from interval (0.5-2.0) ft bgs.  Sample ID: SBZ109111302JW (EGLE), WURD8070 (0.5-2.0) (Airforce)	13:02	Aerostar Collecti	d Split Sample	from inter	Val (o	1.5-2.Φ) ft bas.
Sample ID: SB2/09/11/302JW (EGLE), WURD8070 (0.5-2.0) (Airforce)		Sample ID: S	32/09/11/302JW	(EGLE), W	URO80	70 (0.5-2.0) (Airforce
13:15   Aerostor used WLM to tag water level at 14.3 ft bas	13:15					
13:20 Drillers Completed direct - Push on WURSBA49	13:20					
						SI Loc Sample TD:
13:23 Aerostar Collected Split Sample from 10.0-12.0 Ft has. Sample ID: 5B2109111323JW (EGLE), WURD8073 (10.0-12.0) (ANFORCE)	15 5	6771 A011127	2 TI FOLF	1117/19/17	2 (1h d	17 D (AVC-TO)
13:32 AECOM Off Site	12:37	AFCOM OF CO	10M G-01-J	WORLANDAI	<u>σ (ΙΨ.Ψ</u>	(Allyotte)
13.32   NEW! OH SIRE	13.32	I VERNI OH DI	e			
			-			
	- /					
					W	
			<u></u>			
				-		1 / / / ^

Sheet \_\_\_\_\_of\_\_



Photo No.

Northwest

Description:

completed

Boring #: WURSB042

#### **PHOTOGRAPH LOG**

**Project Name:** Project No. **Site Location:** 

Wurtsmith RI EGLE Oversight Oscoda, MI 60514613

Date & Time: Wed, Sep 08, 2021, 13:44:27 EDT Date: 09/08/21 Position: +044.457156° / -083.372351° (±18.1ft) Altitude: 617ft (±19.7ft) **Direction Photo Taken:** Datum: WGS-84 Azimuth/Bearing: 328° N32W 5831mils True (±18°) Elevation Angle: -11.4° Horizon Angle: +00.3° Zoom: 0.5X

Photo No.

Date: 09/09/21

**Direction Photo Taken:** 

Northeast

Description:

Boring #: WURSB190 location





Project Name: Site Location: Project No.

Wurtsmith RI EGLE Oversight Oscoda, MI 60514613

Photo No.
3 Og/09/21

Direction Photo Taken:
Southeast

Description:

Boring #: WURSB193 location

Date & Titals The Secription:

Boring #: WURSB193 location

Date & Titals The Secription:

Boring #: WURSB193 location

Photo No.

**Date:** 09/09/21

**Direction Photo Taken:** 

East

Description:

Boring #: WURSB196 location





**Project Name: Site Location:** Project No.

Wurtsmith RI EGLE Oversight Oscoda, MI 60514613

5 09/09/21 **Direction Photo Taken:** 

Date:

South

Photo No.

Description:

Boring #: WURSB194 and WURSB109 locations

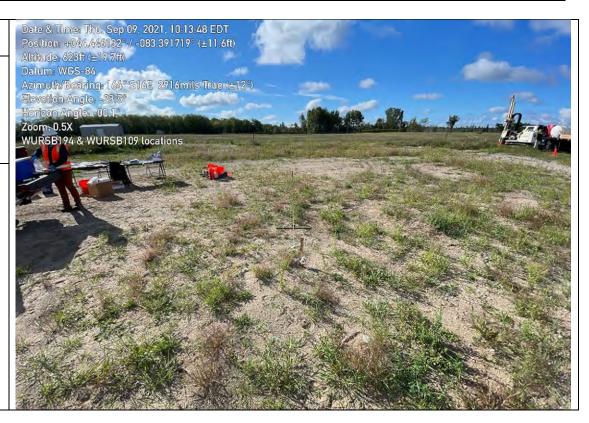


Photo No. Date: 09/09/21

**Direction Photo Taken:** 

South east

Description:

Boring #: WURSB191 (0 -4 ft bgs)





Project Name: Site Location: Project No.

Wurtsmith RI EGLE Oversight Oscoda, MI 60514613

Photo No. 7 09/10/21

Direction Photo Taken:
Southeast

Description:

Boring #: WURSB199 sludge disposal area

Date & Time. Frl. Sep 10. 2021; 11.42.03 EDT Position. + 90.44.0257856\* - 6186.3291/497\* (±11.61b)

Altitude & 610ti (±2.98tb)
Datum WSS-84

Azimuth //Bearing, 185° SASE 2.400trolls True (±15°)
Elevation Angle. + 100.3° Zoom 10.5%

WURSB199 sludge disposal area

Photo No.

**Date:** 09/10/21

**Direction Photo Taken:** 

North

Description:

Boring #: WURSB199 sludge disposal area





**Project Name:** 

**Site Location:** 

Project No.

Wurtsmith RI EGLE Oversight

Oscoda, MI

60514613

Photo No.

**Date:** 09/10/21

**Direction Photo Taken:** 

West

Description:

Path to marsh near FT18S&D



Photo No.

**Date:** 09/10/21

**Direction Photo Taken:** 

South

Description:

Path to marsh near FT18S&D (2)





**Project Name:** 

**Site Location:** 

Project No.

Wurtsmith RI EGLE Oversight

Oscoda, MI

60514613

Photo No.

**Date:** 09/10/21

**Direction Photo Taken:** 

Southwest

Description:

Path to marsh near FT18S&D (3)



Photo No.

**Date:** 09/10/21

**Direction Photo Taken:** 

Northeast

Description:

Path to marsh near FT18S&D (4)





**Project Name:** Project No. **Site Location:** 

Wurtsmith RI EGLE Oversight 60514613 Oscoda, MI

13 09/10/21

Date:

**Direction Photo Taken:** 

North

Photo No.

Description:

Path to marsh near FT18S&D (5)



Photo No. Date: 14 09/10/21

**Direction Photo Taken:** 

East

Description:

Path to marsh near FT18S&D (6)





Project Name: Site Location: Project No.

Wurtsmith RI EGLE Oversight Oscoda, MI 60514613

Photo No.	Date:	Date & Time. Frix Sept 10, 2021 12:22:34 EDT
15	09/10/21	Position: +044 4396062/ =088 388538 (±16-5ft)
<b>Direction Ph</b>	oto Taken:	Altitude, 668ft (全19 7前) Datum: WGS-84
West		Azimuth/Bearing; 277° N83W 4924mils True (±12°) Elevation Angle = 05 0° Horizon Angle: -00.5°
Description:		Zoom: 0.5X Road to Marsh; (1)
Description.		一人是一种,但是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
Road to mars	sh	