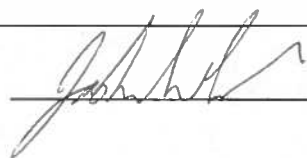


Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
Client EGLE Date 10-05-21
Location Oscoda/Wurtsmith Day S M T W TH F S
Contractor _____ Weather/Temp _____

Equipment Onsite:	<u>Versa Sonic</u>
Personnel Onsite:	<u>Frontz, AECOM, Aerostar</u>
Work Performed (summary of services performed, including field work):	<u>VAS via Sonic</u>
<u>07:30</u>	<u>AECOM onsite at Aerostar field office, Drillers and Aerostar prepping and loading vehicles</u>
<u>08:00</u>	<u>Drillers went to CTS to fill up water</u>
<u>10:10</u>	<u>Jimmie at DRMO, informs me drillers are trying to find "uncontaminated" water at CTS</u>
<u>12:05</u>	<u>AECOM onsite at CTS to check progress, informed they are in fact refilling water and almost ready to mobilize</u>
<u>14:20</u>	<u>Refill complete and mobilization to DRMO WURSV004 WURVS004, will be moving rig 10 ft from last drilling (down to 15 ft by) and starting a new hole</u>
<u>15:08</u>	<u>Drillers began sonic drilling on WURVS004 Sampler ring was getting stuck, drillers had to apply cooking oil to lubricate it</u>
<u>16:20</u>	<u>End of drilling, Aerostar setup to take sample at first interval</u>
<u>18:05</u>	<u>Work stalled due to busted sub pump</u>
<u>18:15</u>	<u>Aerostar (Molly) brought sub pumps to DRMO</u>
<u>18:08</u>	<u>Work stopped, Aerostar called it due to lack of light and slow pumping rate, will resume tomorrow</u>
<u>19:10</u>	<u>AECOM offsite</u>
[The remaining rows of the log are crossed out with a large X.]	

Signed: _____

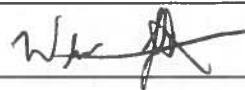


Field Activity Log

Project Name Former Wurtsmith AFB Project No. _____
 Client EGLE Date 10-05-21
 Location Oscoda, MI Day S M T W TH F S
 Contractor _____ Weather/Temp Sunny 60°F

Equipment Onsite:	
Geoprobe	
Personnel Onsite:	
AECOM, Aerostar, Frontz Drilling	
Work Performed (summary of services performed, including field work):	
0730	AECOM on site at Aerostar Field office
08:45	Aerostar and Frontz mobilize to CAT 605P
0900	Aerostar and Frontz begin direct push on WURSB129
0910	Aerostar takes field blank on Frontz ambient water tank
0920	Aerostar takes equipment blank on sampling spoon
0955	Frontz chips in bentonite and demobs WURSB129
1000	Frontz mobs to WURSB134
1005	Frontz and Aerostar begin direct push on WURSB134
1040	Frontz chips in bentonite and demobs WURSB134
1045	Frontz mobs to WURSB130
1100	Frontz and Aerostar begin direct push on WURSB130
1145	Frontz chips in bentonite and demobs WURSB130
1150	Frontz and Aerostar mobs to WURSB136
1200	Frontz and Aerostar begin direct push on WURSB136
1210	Frontz and Aerostar suspend drilling due to refusal at 4.0 ft bgs and move 5.0 ft SE and begin soil boring again; Aerostar kept 0.0-0.5 ft sample from first attempt
1300	Frontz chips in bentonite and demobs WURSB136; Frontz mobs to WURSB133
1305	Break for Lunch
1330	Frontz and Aerostar begin direct push on WURSB133
1415	Frontz chips in bentonite and demobs WURSB133; Frontz suspends work to fix rig
1425	Frontz fixes rig and mobs to WURSB135
1435	Frontz and Aerostar begin direct push on WURSB135
1525	Frontz chips in bentonite and demobs rig back onto truck
1530	Aerostar begins to demob for the day
1540	AECOM off site

Signed: _____




Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-06-21
 Location Oscoda, MI Day SO MO TU W TH FR SA
 Contractor _____ Weather/Temp Cloudy 65°F

Equipment Onsite:	
Geoprobe	
Personnel Onsite:	
AECOM, Aerostar, Frontz Drilling	
Work Performed (summary of services performed, including field work):	
Direct Push Drilling oversite / EGLE split samples	
0730	AECOM on site at Aerostar Field office
0755	AECOM takes Field Blank FB211060755 WPS
0800	Aerostar and Frontz mob to CAT605P
0825	Aerostar and Frontz begin direct push on WURSB128
0900	Frontz chips in bentonite and demobs WURSB128; mobs to WURSB127
0935	Aerostar and Frontz begin direct push on WURSB127
0940	Steven with Aerostar arrives to assist Eric and Frank
1015	Frontz Frontz chips in bentonite and demobs WURSB127; mobs to WURSB127
1030	Aerostar and Frontz begin direct push on WURSB132
1110	Frontz chips in bentonite and demobs WURSB132; mobs to WURSB131
1135	Aerostar and Frontz begin direct push on WURSB131
1210	Frontz chips in bentonite and demobs WURSB131
1215	Break for Lunch
1300	Return from Lunch; Aerostar and Frontz mob to FT002 KC-135 Crash site and WWTP brying bed (5031) for step-out borings
1320	Aerostar and Frontz begin direct push on WURSB232 step-out
1410	Frontz chips in bentonite and demobs WURSB232; mobs to WURSB231
1420	Aerostar and Frontz begin direct push on WURSB231
1500	Frontz chips in bentonite and demobs WURSB231; mobs to WURSB234
1520	Aerostar and Frontz begin direct push on WURSB234
1600	Frontz chips in bentonite and demobs WURSB234; leaving Geoprobe on site
1610	Frontz off site and back to field office
1615	AECOM off site and back to field office
1625	AECOM travel to sonic drilling to assist
1730	AECOM off site

Signed: _____



Field Activity Log

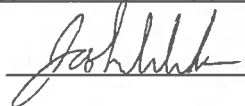
Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-06-21
 Location Oscoda / Wurtsmith Day S M T W TH F S
 Contractor _____ Weather/Temp cloudy

Equipment Onsite: Versa Sonic

Personnel Onsite: AECOM, Aerostar, Frontz (now Rockwater drilling)

Work Performed (summary of services performed, including field work):
VAS

07:30	AECOM onsite at Aerostar field office
07:55	Took field blank at 07:55 - FB2110060755JW
08:10	Mobilization to DRMO WURVS004
08:15	Aerostar purging Drilling Water using Submersible pump
08:35	Bromide concentration from purge water measured at 63 ppm
08:50	Bromide concentration from purge water measured to be 45 ppm
08:56	Aerostar used WLM to tag water level at 16.7 ft btoc
09:00	Bromide concentration from purge water measured to be 38 ppm
09:20	Bromide concentration from purge water measured to be 38 ppm
09:30	Submersible pump not pumping, motor burnt out, Mally (Aerostar) went to pick up new one
09:40	Aerostar onsite with new sub-pump
10:00	Aerostar resumed purging on WURVS004 at 1600 mL/min
10:20	Aerostar used WLM to tag water level at 11.86 ft
10:21	Bromide concentration from purge water measured to be 27.2 ppm
10:30	Bromide concentration from purge water measured to be 31.5 ppm
10:35	Aerostar used WLM to measure WL at 11.88 ft
10:50	Bromide concentration from purge water measured at 24.5 ppm, DTW 11.05 ft
11:00	Aerostar used WLM to get water level at 11.97 ft bgs
11:01	Bromide concentration from purge water measured at 24.9 ppm
11:10	Aerostar measured bromide concentration from purge water at 25.2 ppm
11:15	Aerostar used WLM to measure WL at 11.11 ft bgs
11:30	Aerostar used WLM to measure WL at 16.98 ft btoc, 11.98 bgs
11:35	Aerostar measured bromide at 20.2 ppm from purge water
11:45	Aerostar used WLM to measure WL at 11.96 ft bgs

Signed: 

Field Activity Log

Project Name Former Wurtsmith AFB
Client EGLE
Location Oscoda / Wurtsmith
Contractor _____

Project No. 60514613
Date 10-06-21
Day S M T W TH F S
Weather/Temp _____

10.1 10.5

Equipment Onsite: versa Sonic

Personnel Onsite: AECOM, Aerostar, Rockwater drilling

Work Performed (summary of services performed, including field work):
VAS

11:50	Aerostar measured bromide concentration in purge water at 20.9 ppm
12:00	Aerostar used WLM to tag water level at 16.97 ft btoc, 11.97 ft bgs
12:05	Aerostar measured bromide concentration in purge water at 16.8 ppm
12:15	Aerostar used WLM to tag water level at 16.96 ft btoc, 11.96 ft bgs
12:20	Aerostar measured bromide concentration in purge water at 20.1 ppm
12:30	Aerostar used WLM to tag water level at 16.95 ft btoc, 11.95 ft bgs
12:33	Aerostar used measured bromide concentration in purge water at 20.2 ppm
12:45	Aerostar used WLM to tag water level at 16.95 ft btoc, 11.95 ft bgs
12:50	Aerostar measured bromide concentration in purge water at 17.6 ppm
12:57	Aerostar used WLM to tag water level at 16.95 ft btoc, 11.95 ft bgs
13:00	Aerostar measured bromide concentration in purge water at 21.1 ppm
13:10	Aerostar used WLM to tag water level at 16.95 ft btoc, 11.95 ft bgs, 128 gal purged
13:15	Aerostar measured bromide concentration in purge water at 21.2 ppm
13:30	Aerostar used WLM to tag water level at 16.96 ft btoc, 11.96 ft bgs
13:35	Aerostar measured bromide concentration in purge water at 17.6 ppm
13:45	Aerostar used WLM to tag water level at 17 ft btoc, 12 ft bgs
13:46	Aerostar measured bromide concentration in purge water at 15.0 ppm
13:55	Aerostar used WLM to tag water level at 17 ft btoc, 12 ft bgs
13:57	Aerostar measured bromide concentration in purge water at 10.5 ppm
14:00	Aerostar purged 150 gal of water, stopped pumping
14:20	Aerostar began peristaltic pumping on WURVSD4 at 600 mL/min
14:23	Aerostar lowered pumping rate to 360 mL/min, 43.1 NTU's Turbidity Aerostar recorded bromide at 10.5 ppm before sampling
14:32	Aerostar collected split
15:30	Drillers filled bag with boring sediment
15:32	Jeremiah called for check-in

Signed: _____

Field Activity Log

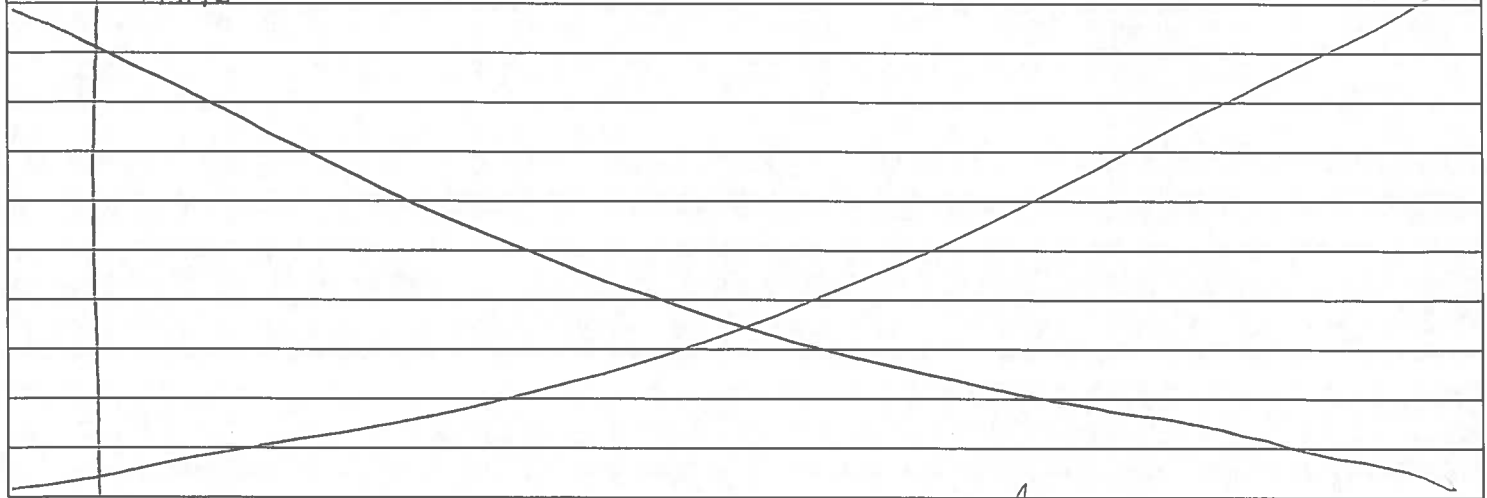
Project Name Former Wurtsmith AFB Project No. G0514613
Client EGLE Date 10-16-21
Location Oscoda/Wurtsmith Day S M T W TH F S 29.1
Contractor _____ Weather/Temp _____

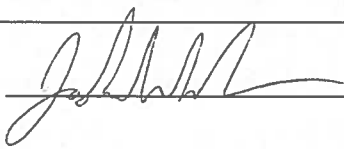
Equipment Onsite: versa sonic

Personnel Onsite: AECOM, Aerostar, Rock water drilling

Work Performed (summary of services performed, including field work):
VAS

- 16:05 Drillers made it down to 83 ft, used 117.06 gallons
- 16:10 Aerostar measured water level at 9.81 ft bgs, 15.81 b7oc, 35.1 ft bottom of screen
- 16:30 Aerostar began purging, flow rate at 400 ml/min
- 16:35 Aerostar measured bromide concentration to be — Calibrating
- 16:45 Initial Bromide was measured as 110.5 ppm
- 16:50 Drillers tank bromide is 112.9 ppm
- 16:53 Drillers measured bromide concentration to be 92.2 ppm
- 16:55 Drillers used WLM to measure water level at 11.78 ft bgs
- 17:00 Aerostar used WLM to measure water level at 11.8 ft bgs
- 17:05 Aerostar measured bromide concentration to be 110.5 ppm
- 17:15 Aerostar used WLM to measure water level at 11.81 ft bgs
- 17:20 Aerostar measured bromide concentration to be 98.8 ppm
- 17:31 Aerostar used WLM to tag water level at 11.95 ft bgs
- 17:40 Noel (Aerostar) said we shall stop work and pickup tomorrow, AECOM offsite



Signed: 

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGL Date 10-07-21
 Location Oscoda / Wurtsmith Day S M T W TH F S
 Contractor _____ Weather/Temp Cloudy

41.5 12.09

Equipment Onsite: Versa Sonic

Personnel Onsite: AECOM, Aerostar, Rockwater Drilling

Work Performed (summary of services performed, including field work):
VAS

07:40	AECOM onsite at Aerostar field office
07:45	Mobilization to DRMO WURVSD04, Frontz (Rockwater) onsite warming up rig
08:20	Aerostar field team onsite
08:45	Aerostar rented new stainless steel submersible pump in an attempt to speed up purging process, Decanned by Aerostar prior to use
09:05	Aerostar began purging WURVSD04 at a rate of 4 L/min
09:10	Aerostar measured bromide concentration to be 55.3 ppm, after recalibrating probe
09:12	Aerostar used WLM to tag water level at 12.5 ft bgs , 5.5 ft bgs bgs
09:20	Aerostar used WLM to tag water level at 12.13 ft bgs , 5.13 ft bgs bgs
09:22	Aerostar used WLM to tag water level at 12.09 ft bgs
09:24	Aerostar measured bromide concentration as 41.5 ppm
09:27	Aerostar used WLM to tag water level at 12.03 ft bgs
09:30	Aerostar measured bromide concentration at 37.5 ppm
09:45	Aerostar measured pump rate at 1000 ^{ml} /min
	Aerostar used WLM to tag water level at
09:55	Aerostar noted pump began trickling, tried to troubleshoot it
10:00	Aerostar checked screen, clear, pumped again, flow rate 1 gal/min
10:10	Aerostar measured bromide concentration at 36.1 ppm
10:11	Aerostar used WLM to tag water level at 14.68 ft bgs
10:15	Aerostar noted 58 gal purged so far
10:17	Aerostar used WLM to tag water level at 14.75 ft bgs
10:20	Aerostar measured bromide concentration at 25.0 ppm
10:25	Aerostar used WLM to tag water level at 14.8 ft bgs, pumping 7800 ^{ml} /min
10:30	Aerostar measured bromide concentration at 20.1 ppm
10:35	Aerostar used WLM to tag water level at 14.84 ft bgs, vol. in tank is 85 gal ^{purge}
10:37	Aerostar measured bromide concentration at 18.3 ppm

Signed: 

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-07-21
 Location Oscoda / Wurtsmith Day SO MO TO WO TH FO SA
 Contractor _____ Weather/Temp _____

27.5
29.1

Equipment Onsite: Verba Sonic 31.5 36.1

Personnel Onsite: AECOM, Aerostar, Rockwater (Fronte)

Work Performed (summary of services performed, including field work):

VAS

- 10:20 Aerostar measured purge flow rate at $500 \frac{ml}{min}$, vol. of purge tank is 90 gallons
- 10:42 Aerostar measured bromide concentration as 14.5 ppm
- 10:45 Aerostar noted vol in purge tank is 95 gallons
- 10:50 Aerostar measured bromide concentration at 11.9 ppm, vol in purge tank is 103 gallons
- 10:51 Aerostar used WLM to tag water level at 14.92 ft bgs
- 10:52 Aerostar measured bromide concentration to be 10.0 ppm, Can now Sample
Since it is under required 11.1 ppm benchmark
- 10:53 Aerostar stopped submersible pump purging, setup peristaltic
- 11:05 Aerostar began pumping with peristaltic pump, flow rate $320 \frac{ml}{min}$
Aerostar measured turbidity at 22.6 NTU's
- 11:15 Aerostar collected a sample WUR13049 (27.5-29.0) @ 11:15
- 11:30 Drillers start up sonic rig and begin prepping to push down
- 11:55 ~~Aerostar wanted to~~ pushed sampler further ahead, attempted to and
busted threads on Rockwaters sampler
- 12:15 Rockwater working on repairs, Aerostar began logging 20.0-30.0 ft bgs sediment
- 13:30 No recovery 30'-40', fell out bottom of tooling, 163.44 gal of drilling
water used, gravelly zone somewhere in 30.0-40.0 ft.
- 13:40 Aerostar used WLM to tag ~~water~~ level at bottom of screen at 39.5 ft bgs
- 13:50 Rockwater noted broken sampler has one thread left, tightened it as
much as possible and will attempt to use it until replacement is
secured
- 14:00 Aerostar started purging via sub pump, starting at $300 \frac{ml}{min}$
- 14:05 Aerostar used WLM to tag water level at 15.53 ft bgs, 18.53 ft b1oc
- 14:08 Aerostar used WLM to tag water level at 17.6 ft bgs
- 14:10 Aerostar recalibrated probe used to measure bromide at 112.4 ppm
- 14:13 Aerostar used WLM to tag water level at 21.05 ft bgs

Signed: _____

Jahllh

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGL Date 10-07-21
 Location Oscoda/Wurtsmith Day SO MO TO WO TH FO SO
 Contractor _____ Weather/Temp _____

4150 157

Equipment Onsite: Versa Sonic

Personnel Onsite: AECOM, Aerostar, Rock Water

Work Performed (summary of services performed, including field work):

<u>VAS</u>	
<u>14:15</u>	<u>Aerostar measured flow rate as 4,150 $\frac{mL}{min}$, Vol of purge tank is 135 gal</u>
<u>14:20</u>	<u>Aerostar used WLM to measure water level at 21.87 ft bgs</u>
<u>14:21</u>	<u>Aerostar used WLM to tag water level at 22.10 ft bgs</u>
<u>14:22</u>	<u>Aerostar measured bromide concentration at 106.4 ppm</u>
<u>14:24</u>	<u>Aerostar used WLM to tag water level at 22.40 ft bgs</u>
<u>14:25</u>	<u>Aerostar measured bromide concentration to be 96.9 ppm</u>
<u>14:27</u>	<u>Aerostar measured flow rate as 4500 $\frac{mL}{min}$, 147 gal in purge tank</u>
<u>14:28</u>	<u>Aerostar used WLM to tag WL at 22.51 ft bgs</u>
<u>14:38</u>	<u>Aerostar measured bromide concentration to be 85.5 ppm</u>
<u>14:40</u>	<u>Aerostar used WLM to tag WL at 20.95 22.95 ft bgs</u>
<u>14:41</u>	<u>Aerostar measured flow rate as 4150 $\frac{mL}{min}$, Purge tank vol at 157 gal</u>
<u>14:45</u>	<u>Aerostar measured flow rate as 4300 $\frac{mL}{min}$, Purge tank vol at 172</u>
<u>14:49</u>	<u>Aerostar used WLM to tag WL at 23.25 ft bgs</u>
<u>14:50</u>	<u>Aerostar measured bromide concentration at 82.3 ppm</u>
<u>14:53</u>	<u>Aerostar measured flow rate as 5000 $\frac{mL}{min}$, tagged water level at 24.65 ft bgs</u>
<u>14:58</u>	<u>Aerostar measured bromide concentration at 68.7 ppm</u>
<u>15:00</u>	<u>Aerostar measured flow rate as 5500 $\frac{mL}{min}$</u>
<u>15:01</u>	<u>Aerostar used WLM to tag WL at 25.55 ft bgs</u>
<u>15:03</u>	<u>Purge rate begins dropping considerably, down to 4500 $\frac{mL}{min}$, Vol is 190 gal in tank</u>
<u>15:04</u>	<u>Aerostar used WLM to tag WL at 24.51 ft bgs</u>
<u>15:05</u>	<u>Aerostar measured flow rate as 3,800 $\frac{mL}{min}$</u>
<u>15:08</u>	<u>Aerostar used WLM to tag WL at 23.75 ft bgs</u>
<u>15:10</u>	<u>Aerostar measured bromide concentration as 24.7 ppm</u>
<u>15:15</u>	<u>Vol. in Purge tank is 205 gal., Aerostar tagged water level at 23.0 ft bgs</u>
<u>15:18</u>	<u>Aerostar measured bromide concentration as 27.8 ppm</u>
<u>15:25</u>	<u>Aerostar measured bromide concentration as 17.9 ppm</u>

Signed: _____

Field Activity Log

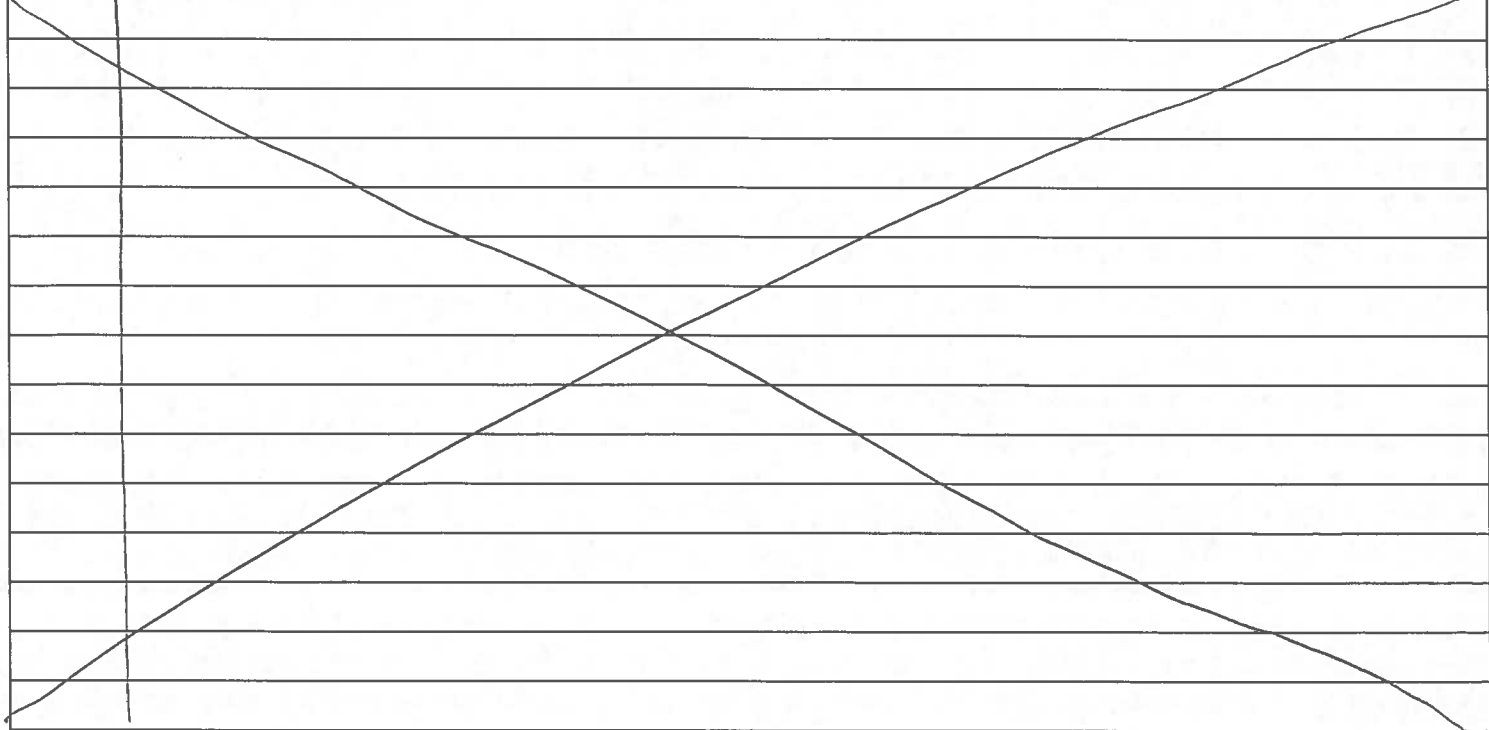
Project Name Former Wurtsmith AFB Project No. 60514613
Client EGLE Date 10-07-21
Location Oscoda/Wurtsmith Day SO MO TU WED TH FR SA
Contractor _____ Weather/Temp _____

Equipment Onsite: Versa Sonic

Personnel Onsite: AECOM, Aerostar, Rock Water

Work Performed (summary of services performed, including field work):
VAS

~~Aerostar recalibrated bromine probe~~
15:35 Aerostar measured flow rate as $36.0 \frac{ml}{min}$, 22.42 Water level
15:37 Aerostar measured Bromide concentration as 9.0 ppm, pumped 126.0 gal,
Stopped pumping via sub pump
15:50 Aerostar began pumping via peristaltic at $36.0 \frac{ml}{min}$, 58.1 NTU's
15:53 Aerostar measured turbidity of water at 17.3 NTU's
15:58 Aerostar collected sample WUR13050 (38.0-39.5) (38.0-39.5),
15:59 Aerostar stopped peristaltic pump
17:10 Rock Water stopped drilling for the day, used 131.42 gallons, 49 ft
to bottom
17:25 AECOM offsite



Signed: *[Signature]*

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-07-21
 Location Oscoda, MI Day SO MO TU W TH F SA S
 Contractor _____ Weather/Temp Cloudy 65°F

Equipment Onsite:	
Geoprobe	
Personnel Onsite:	
AECOM, Aerostar, Frontz Drilling	
Work Performed (summary of services performed, including field work):	
Direct Push Drilling oversite / EGLE split samples	
0730	AECOM on site at Aerostar field office
0745	Aerostar and Frontz mob to area FT002
0755	Aerostar and Frontz set up for direct push on WURSB235 (step-out)
0805	Aerostar and Frontz begin direct push on WURSB235 (step-out)
0845	Frontz chips in bentonite and demobs WURSB235 (stepout); mob
0850	Frontz mobs to WURSB236 (step-out)
0900	Aerostar and Frontz begin direct push on WURSB235 (step-out)
0950	Frontz chips in bentonite and demobs WURSB235; mobs to WURSB231
1010	Aerostar and Frontz begin direct push on WURSB231
1100	Frontz chips in bentonite and demobs WURSB231; mobs to WURSB
1120	Aerostar and Frontz begin direct push on WURSB230 (step-out)
1210	Frontz chips in bentonite and demobs WURSB230; Aerostar
1220	Aerostar demobs WURSB230; Lunch Break
1310	Aerostar and Frontz mob to CAT605P BOA
1330	Aerostar and Frontz begin direct push on WURSB213 (step-out)
1420	Frontz chips in bentonite and demobs WURSB213; mobs to WURSB211
1430	Aerostar and Frontz begin direct push on WURSB211 (step-out)
1520	Frontz chips in bentonite and demobs WURSB211; mobs to WURSB212
1530	Aerostar and Frontz begin direct push on WURSB212 (step-out)
1610	Frontz chips in bentonite and demobs WURSB212 (step-out)
1615	Aerostar and Frontz demob for the day; AECOM off site to sonic
1620	Travel to sonic rig to assist
End of summary 10-07-21	

Signed: [Signature]

Field Activity Log

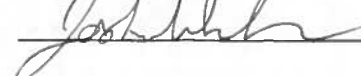
Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-08-21
 Location Oscoda/Wurtsmith Day S M T W Th F S
 Contractor _____ Weather/Temp Heavy Rain

Equipment Onsite: Verisa Sonic

Personnel Onsite: AECOM, Aerostar, Rockwater Drilling

Work Performed (summary of services performed, including field work):
VAS

07:35	AECOM onsite at Aerostar field office.
07:45	Mobilization to DRMO WURVSD04 and Jeremiah called for check-in
08:00	Informed purge tank was emptied yesterday as it was full
08:25	Aerostar used WLM to tag water level at 13.4 ft bgs
08:30	Aerostar began purging via Submersible pump at 5000 $\frac{mL}{min}$
08:35	Aerostar used WLM to measure water level at 14.9 ft bgs
08:50	Aerostar recalibrated bromite probe, bromine measured at 124.2 ppm
09:00	Aerostar measured flow rate at 4800 $\frac{mL}{min}$, and 60 gal in purge tank
09:05	Aerostar used WLM to measure water level at 24.75 ft bgs
09:10	Aerostar measured bromide at 90.5 ppm
09:15	Aerostar measured flow rate at 4200 $\frac{mL}{min}$
09:18	Aerostar used WLM to tag water level at 26.4 ft bgs
09:19	Bromide measured at 79.8 ppm
09:25	Aerostar measured flow rate at 3800 $\frac{mL}{min}$, purge tank at 90 gal
09:30	Aerostar tagged water level at 27.35 ft bgs
09:31	Aerostar measured bromide at 57.0 ppm
09:44	Aerostar measured flow rate as 3400 $\frac{mL}{min}$, vol in tank 103 gal
09:45	Aerostar used WLM to tag WL at 24.86 ft bgs
09:50	On next boring Aerostar will purge water out before pushing the sampler ahead
09:55	Aerostar measured bromide as 40.2 ppm
10:00	Aerostar measured flow rate as 3600 $\frac{mL}{min}$, vol in tank is 120 gal
10:04	Aerostar tagged WL at 24.40 ft bgs
10:06	Bromide measured at 35.7 ppm
10:15	Aerostar measured flow rate as 4200 $\frac{mL}{min}$ 105 gal
10:18	Aerostar tagged WL at 25.18 ft bgs

Signed: 

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-08-21
 Location Oscola / Wurtsmith Day S M T W Th F S D
 Contractor _____ Weather/Temp _____

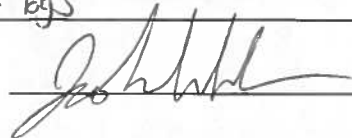
Equipment Onsite: Versa Sonic

Personnel Onsite: AECOM, Aerostar, Rockwater

Work Performed (summary of services performed, including field work):
VAS

10:20	Aerostar measured bromide at 35 ppm
10:28	Aerostar measured flow rate as 38 $\frac{\text{ML}}{\text{min}}$, 148 gal
10:30	Aerostar tagged WL at 25.55 ft bgs
10:32	Aerostar measured bromide at 23.2 ppm
10:45	Aerostar measured flow rate as 37 $\frac{\text{ML}}{\text{min}}$, 165 gal in purge tank
10:48	Aerostar used WLM tag water level at 25.8 ft bgs
10:50	Aerostar measured bromide as 16.4 ppm
11:00	Aerostar measured flow rate as 37 $\frac{\text{ML}}{\text{min}}$, 178 gal in purge tank
11:03	Aerostar used WLM to tag WL at 25.55 ft bgs
11:05	Aerostar measured bromide as 9.8 ppm
11:07	Aerostar stopped purging via sub pump
11:15	Aerostar started peristaltic purging at 32 $\frac{\text{ML}}{\text{min}}$, Turbidity at 16.3 NTU's
11:30	Aerostar used WLM to tag water level at 15.25 ft bgs
11:35	Aerostar measured WL at 14.3 ft bgs
11:37	Turbidity measured at 19.7 NTU's
11:37	Aerostar collected sample WUR13051 (48-4 (48.0-49.5)) @ 11:37
11:50	Rockwater began Sonic, pushed down, used 132.22 gallons
13:20	Aerostar measured DTW as 2.85 ft bgs, DTB is 63.55 ft 60.95 ft
13:35	Aerostar began purging via sub pump, at 60 $\frac{\text{ML}}{\text{min}}$
13:39	Aerostar used WLM to tag water level at 8.60 ft bgs
13:42	Aerostar measured bromide concentration at 108.6 ppm, ~15.0 gal purged
13:45	Aerostar measured flow rate as 40 $\frac{\text{ML}}{\text{min}}$, water level tagged at 16.43 ft bgs 18 gal purged
13:50	Bromide measured at 107.3 ppm by Aerostar
14:00	Aerostar measured flow rate as 37 $\frac{\text{ML}}{\text{min}}$, 32 gal purged
14:02	Aerostar tagged water level at 21.65 ft bgs

Signed: _____



Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-08-21
 Location Oscoda/Wurtsmith Day S M T W TH F S D
 Contractor _____ Weather/Temp Cloudy + Rain

14

2499

Equipment Onsite: Versa Sonic

Personnel Onsite: AECOM, Aerostar, Rockwater

Work Performed (summary of services performed, including field work):
VAS

14:10	Aerostar measured bromide concentration as 65.4 ppm
14:12	Aerostar measured flow rate as 2000 $\frac{mL}{min}$
14:15	Aerostar measured flow rate as 4200 $\frac{mL}{min}$, 45 gal purged
14:16	Aerostar used WLM to tag water level at 20.80 ft bgs
14:19	Aerostar measured bromide concentration as 15.8 ppm
14:30	Aerostar measured flow rate as 4200 $\frac{mL}{min}$, 30
14:35	Aerostar measured bromide as 49.2 ppm, DTW 24.98 ft bgs
14:48	Aerostar measured flow rate as 3200 $\frac{mL}{min}$, 68 gal purged, DTW 26.95 ft bgs
14:50	Aerostar measured bromide concentration as 44.7 ppm
15:02	Aerostar measured flow rate as 3600 $\frac{mL}{min}$, 82 gal purged, DTW as 26.93 ft bgs
15:07	Aerostar measured bromide concentration as 44.6 ppm
15:15	Aerostar measured flow rate as 3200 $\frac{mL}{min}$, 92 gal purged, DTW is 26.85 ft bgs
15:17	Aerostar measured bromide concentration as 54.5 ppm
15:30	Aerostar measured pump rate as 3500 $\frac{mL}{min}$, 102 gal purged, DTW is 27.48 ft bgs
15:35	Aerostar measured bromide concentration as 34.2 ppm
15:45	Aerostar measured flow rate as 3400 $\frac{mL}{min}$, 113 gal purged, 28.25 ft bgs DTW
15:50	Aerostar measured bromide as 24.6 ppm
16:00	Aerostar measured flow rate as 3700 $\frac{mL}{min}$, 128 gal purged, 28.19 ft bgs DTW
16:03	Aerostar measured bromide as 30.7 ppm, after calibrating probe
16:15	Aerostar measured flow rate as 3700 $\frac{mL}{min}$, 142 gal purged, DTW is 28.8 ft bgs
16:20	Aerostar measured bromide concentration as 30.8 ppm
16:30	Aerostar measured flow rate as 3800 $\frac{mL}{min}$, 157 gal purged, 28.7 ft bgs DTW
16:35	Aerostar measured bromide as 29.8 ppm
16:45	Aerostar measured flow rate as 3400 $\frac{mL}{min}$, 171 gal purged, 27.69 ft bgs DTW
16:47	Aerostar measured bromide concentration as 19.7 ppm
17:00	Aerostar measured flow rate as 3300 $\frac{mL}{min}$, 184 gal purged, 27.18 ft bgs DTW

Signed: 

Field Activity Log

Project Name Former Wurtsmith AFB

Project No. 60514613

Client EGLE

Date 10-08-21

Location Oscoda/Wurtsmith

Day S M T W TH F S O

Contractor _____

Weather/Temp _____

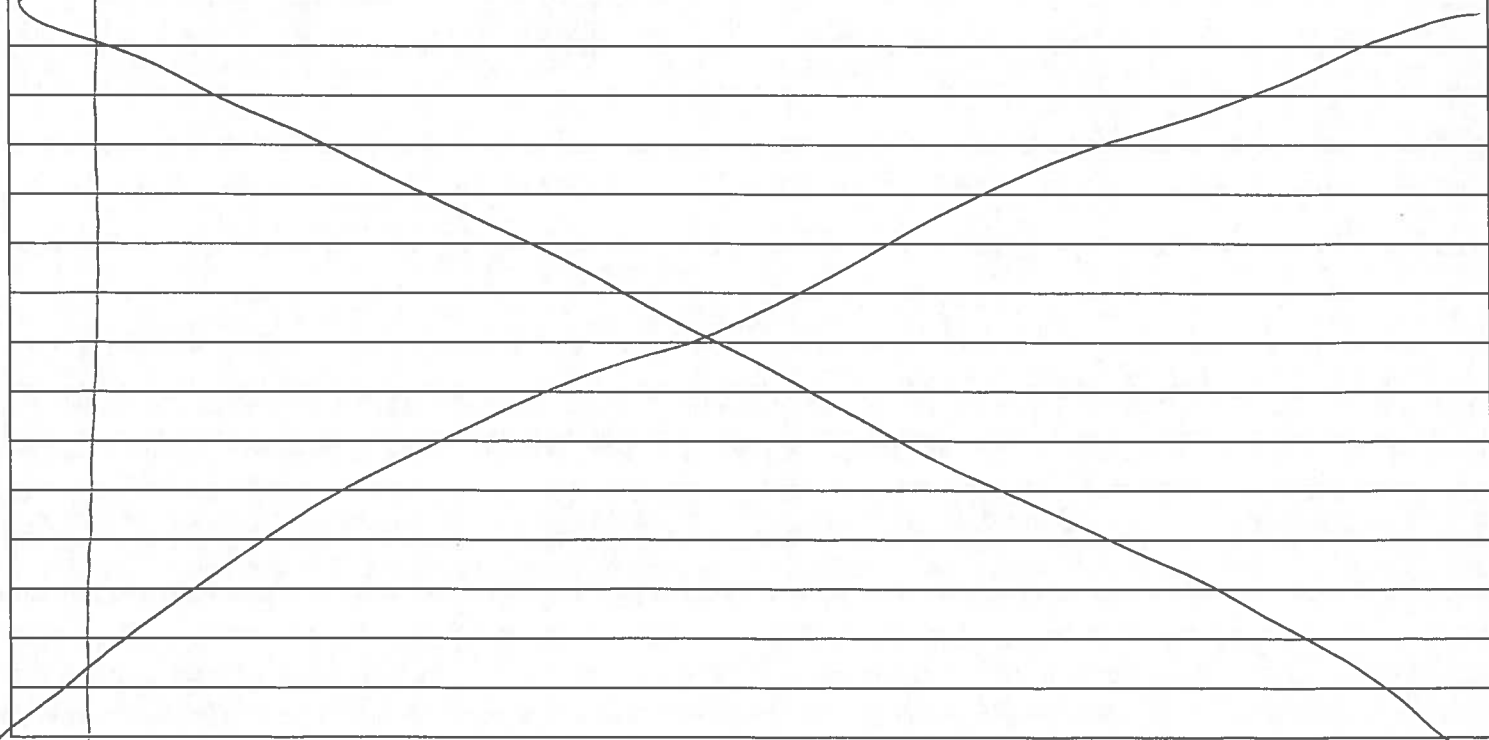
13051A

Equipment Onsite: Versa Sonic

Personnel Onsite: AECOM, Aerostar, Rock Water

Work Performed (summary of services performed, including field work):
VAS

- 17:02 Aerostar measured bromide concentration as 23.6 ppm
- 17:15 Aerostar measured flow rate as 2900 $\frac{mL}{min}$, 25.7 DTW ft bgs, 197 gal purged
- 17:18 Aerostar measured bromide concentration as 14.5 ppm
- 17:25 Aerostar measured flow rate as 3200 $\frac{mL}{min}$, DTW is 26.11 ft bgs, 209 gal purged
- 17:30 Aerostar measured bromide concentration as 8.7 ppm
- 17:33 Aerostar finished sub pumping on WURV5004
- 17:45 Aerostar started peristaltic pumping at 17:45, 300 $\frac{mL}{min}$, 204 NTU's
- 18:05 Aerostar sampled, ~~WUR13051A (59.0-60.5)~~, Aerostar measured turbidity at 46.5 NTU's
- 18:10 Aerostar collected sample WUR13051A (59.0-60.5), stopped pumping
- 18:20 AECOM offsite



Signed: [Signature]

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-08-21
 Location Oscoda, MI Day M T W TH F S
 Contractor _____ Weather/Temp Cloudy, Periodic Rain 65°F

Equipment Onsite:	
Geoprobe	
Personnel Onsite:	
AECOM, Aerostar, Frontz (Rock water) Drilling	
Work Performed (summary of services performed, including field work):	
Direct Push Drilling Oversight (EGLE Split samples)	
0730	AECOM arrive at Aerostar Field office
0745	Aerostar and Rock water mob to CAT65P BOA
0810	Aerostar and Rock water begin direct push on WURS220 step-out
0940	A Rock water chips in bentonite and demobs WURS220 step out
0945	A Rock water mobs to WURS219
1000	Aerostar and Rock water begin direct push on WURS219
1030	Jimmy with Aerostar arrives at BOA site
1110	Aerostar Rock water chips in bentonite and demobs WURS219
1115	Aerostar and Rock water mob to WURS237
1200	Lunch
1140	Noel arrives at WURS237 to geo mark the hole
1200	Break for lunch
1230	Geoprobe won't start due to dead battery
1235	John with Rock water and Eric with Aerostar leave to get a new battery
1255	Eric John and Eric return and say battery was tested and is fine
1305	John fixes Geoprobe
1310	Aerostar and rock water begin direct push on WURS237
1355	Rockwater chips in bentonite and demobs WURS237
1400	Aerostar and Rock water mob to WURS 237 FT002
1430	Aerostar and Rock water begin direct push on WURS3109 to collect samples for 5.0-7.0 and 9.0-11.0 ft bgs; these intervals were not sampled when this boring was first sampled
1505	Rock water chips in bentonite and demobs WURS3109
1515	AECOM off site back to Field office
1525	Travel to VAS location to assist and observe
1710	Off site

Signed: _____

[Signature]

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-09-21
 Location Oscoda/Wurtsmith Day S M T W Th F S
 Contractor _____ Weather/Temp _____

609

Equipment Onsite: <u>Versa Sonic</u>	
Personnel Onsite: <u>AECOM, Aerostar, Rockwater</u>	
Work Performed (summary of services performed, including field work): <u>VAS</u>	
07:40	AECOM onsite at Aerostar field office
08:00	Mobilization to DRMO WURV5004
08:20	Rock Water warms up rig and begins pushing down
09:00	Aerostar measured depth to bottom as 69.5 ft
09:05	Rockwater begins abandonment process on WURV5004
10:50	Rock water used Quikrete cement mixture, and then topped off the hole with bentonite
11:30	Mobilization to WURV5001, Drillers went to fill up on bromide water mixed this morning + start of lunch
12:30	End of lunch, Drillers began hand augering on WURV5001
13:12	Rockwater began warming up rig
13:44	Rockwater began sonic drilling on WURV5001
14:05	Aerostar used WLM, hit 12 ft deep - no water, no-water used by drillers
14:25	Drillers pushed down to 16.0 ft bgs
14:32	Aerostar used WLM to tag water level at 18.52 ft bloc, total depth 23.0 ft. 11.15 ft bgs is final DTW, 16 ft bgs total depth
14:46	Aerostar started peristaltic pumping on WURV5001
14:50	Aerostar measured flow rate as 600 $\frac{mL}{min}$
15:00	Aerostar measured Turbidity as _____ , flow rate as 300 $\frac{mL}{min}$
15:05	Aerostar measured Turbidity as 360 NTU's
15:10	Aerostar measured Turbidity as 252 NTU's
15:28	Aerostar measured Turbidity as 46 NTU's, 11.25 ft bgs DTW, flow rate is 300 $\frac{mL}{min}$
15:30	Aerostar collected sample split
15:35	Rockwater began sonic push on WURV5002 starting at 16.0 ft bgs

Signed: _____

Johanna

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-09-21
 Location Oscoda / Wurtsmith Day S M T W TH F S
 Contractor _____ Weather/Temp _____

20.71

19.3

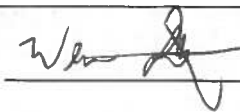
Equipment Onsite: <u>Sonic (Versa-Sonic)</u>	
Personnel Onsite: <u>AECOM, Aerostar, Rockwater</u>	
Work Performed (summary of services performed, including field work): <u>VAS - 18in push-ahead</u>	
<u>15:55</u>	<u>Drillers noted 21.3 ft to bottom of boring</u>
<u>15:57</u>	<u>Aerostar measured total depth as 20.71, DTW as 15.3 ft bgs</u>
<u>16:10</u>	<u>Aerostar began peristaltic pumping on WURUS001, drillers did not use fluid</u>
<u>16:13</u>	<u>Aerostar measured flow rate as 300 $\frac{ml}{min}$, 1100 NTUs</u>
<u>16:55</u>	<u>Aerostar measured flow rate as 600 $\frac{ml}{min}$</u>
<u>17:05</u>	<u>Aerostar measured flow rate as 300 $\frac{ml}{min}$, Turbidity is 1090 NTUs</u>
<u>17:05</u>	<u>Aerostar collected sample WUR13033 (19.0-20.5), Aerostar began packing up for the day</u>
<u>17:39</u>	<u>AECOM offsite</u>

Signed: *[Signature]*

Field Activity Log

Project Name Former Wurtsmith APB Project No. _____
 Client EGLE Date 10-09-21
 Location Oscoda, MI Day S M T W Th F S
 Contractor _____ Weather/Temp Cloudy 65°F

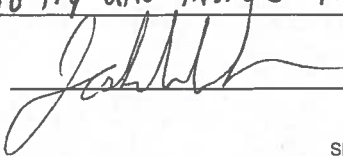
Equipment Onsite:	
Geoprobe	
Personnel Onsite:	
AECOM, Aerostar, Rock water Drilling	
Work Performed (summary of services performed, including field work):	
Direct Push Drilling oversite / EGLE split samples	
0730	AECOM arrive at Aerostar Field Office
0735	Aerostar and Rock water prep for day (water tank fill and sample kit prep)
0820	Aerostar and Rock water mob to CAT605P BOA
0830	Aerostar and Rockwater prep for WURSB068
0845	Aerostar and Rock water begin direct push and demob ^{for} WURSB068
0935	Rock water chips in bentonite and demobs WURSB068
0945	Aerostar and Rock water mob to Alert Aircraft Area
1030	Aerostar and Rock water begin direct push on WURSB026; originally drilled and sampled on 09-16-21; returning to sample deeper intervals
1145	Rock star water chips in bentonite and demobs WURSB026; mob to WURSB027
1210	Aerostar and Rock water begin direct push on WURSB027; originally drilled and sampled on 09-16-21; returning to sample deeper intervals
1300	Rock water chips in bentonite and demobs WURSB027; Rock water demob to Aerostar Field office
1305	AECOM off site from Alert Aircraft Area; mob to VAS location to assist and observe
1715	Wes with AECOM off site
End of Summary 10-09-21	

Signed: 

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-10-21
 Location Oscoda/Wurtsmith Day S M T W TH F S
 Contractor _____ Weather/Temp _____

Equipment Onsite: <u>versa sonic</u>	
Personnel Onsite: <u>AECOM, Aerostar, Rockwater</u>	
Work Performed (summary of services performed, including field work): <u>VAS 18 in - push ahead</u>	
<u>07:40</u>	<u>AECOM onsite, Aerostar on lightning hold and prepping</u>
<u>08:10</u>	<u>Arrived onsite at DRMO WUR VAS 001, Drillers warmup rig</u>
<u>08:35</u>	<u>Aerostar used WLM to tag water level at 12.0 ft bgs, Drillers began use of water at 30 ft bgs, used 128.96 gallons, 28 ft total depth.</u>
<u>08:40</u>	<u>Rockwater Aerostar is purging water from casing before pushing sampler ahead, using submersible pump</u>
<u>08:50</u>	<u>Aerostar measured flow rate as 4000 mL/min</u>
<u>09:10</u>	<u>Aerostar pumped WUR VAS 001 potentially, decreased flow rate</u>
<u>09:25</u>	<u>Aerostar measured flow rate as 600 mL/min</u>
<u>09:30</u>	<u>Aerostar noted ~20 gal purged, removed sub pump, Rockwater began pushing sampler ahead</u>
<u>09:35</u>	<u>High probability of rain, Aerostar setup canopies over equipment + Decon buckets</u>
<u>09:40</u>	<u>Rockwater pushed ahead sampler, 4 feet of sand heaved</u>
<u>09:45</u>	<u>Aerostar and Rockwater break for lightning in the area</u>
<u>11:25</u>	<u>Aerostar and Rockwater return to work</u>
<u>11:35</u>	<u>Rockwater pulling sampler to remove heaved material</u>
<u>11:50</u>	<u>Rockwater pushed ahead to force heaved material out to expose the screen</u>
<u>12:10</u>	<u>Aerostar tagged water with WLM at 17.5 ft bgs with the screen at 29.5 ft bgs (28-29.5)</u>
<u>12:30</u>	<u>Aerostar begins purging at 2600 mL/min flow rate</u>
<u>12:35</u>	<u>Aerostar calibrates bromide probe</u>
<u>12:40</u>	<u>Aerostar measures bromide concentration at 99.4 ppm</u>
<u>12:50</u>	<u>Aerostar retested flow rate at 1000 mL/min</u>
<u>12:55</u>	<u>Aerostar measures bromide concentration at 82.4 ppm</u>
<u>13:00</u>	<u>Aerostar switches out purging pump to try and increase flow rate</u>

Signed: 

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGL Date 10-10-21
 Location Oscoda/Wurtsmith Day S M T W Th F S
 Contractor _____ Weather/Temp _____

2762

Equipment Onsite:	Versa Sonic
Personnel Onsite:	AECOM, Aerostar, Rockwater
Work Performed (summary of services performed, including field work):	VAS 18 in - push a head
13:07	Aerostar began purging using "Geosquirt", lower flow Sub pump
13:08	Aerostar measured flow rate as 2800 $\frac{mL}{min}$
13:12	Aerostar measured DTW as 18.10 ft bgs, 25 gal purged
13:15	Aerostar recalibrated Bromide probe, measured bromide concentration at 69.1 ppm
13:17	Aerostar measured DTW as 21.08 ft bgs, flow rate as 1600 $\frac{mL}{min}$, 28.0 gal purged, Bromide concentration is 57.2 ppm
13:30	Aerostar measured DTW as 27.62 ft bgs, flow rate as 1000 $\frac{mL}{min}$
13:40	Bromide concentration measured as 39.2 ppm
13:45	Aerostar measured DTW as 22.32 ft bgs, flow rate at 800 mL/min
13:50	Bromide concentration measured as 22.1 ppm
14:00	Aerostar measured DTW as 22.55 ft bgs, flow rate at 950 mL/min
14:05	Bromide concentration measured as 22.1 25.4 ppm
14:10	Aerostar swaps out battery source to try and increase flow rate
14:15	Aerostar purges with two pumps and drains hole; WLM reading at 29.5 ft bgs Flow rate at 800 mL/min (Flow rate with both pumps = 8400 mL/min)
14:20	Bromide concentration measured as 37.8 ppm; WLM reading at 24 ft bgs; 50 gal purged
14:25	Bromide meter recalibrated
14:35	Aerostar measured DTW as 24.75 ft bgs, flow rate as 500 mL/min, 55.0 gal purged
14:40	Bromide concentration at 24.8 ppm
14:58	Aerostar measured flow rate as 500 $\frac{mL}{min}$, DTW is 24.7 ft bgs, 60 gal purged, Bromide concentration at 21.3 ppm
15:10	Aerostar measured DTW as 24.33 ft bgs, flow rate as 600 mL/min, 65 gal purged, Bromide concentration at 20.2 ppm
15:25	Aerostar measured DTW as 24.35 ft bgs, flow rate as 1050 mL/min, 70 gal purged

Signed: _____

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGL Date 10-10-21
 Location Oscoda, MT Day S M T W Th F S D
 Contractor _____ Weather/Temp Cloudy, 65° AM rain

Equipment Onsite:
Verba Sonic

Personnel Onsite:
AECOM, Aerostar, Rock Water

Work Performed (summary of services performed, including field work):
VAS 18 in - push ahead

1530 Bromide concentration measured at 23.7 ppm; bromide probe recalibrated

1540 Aerostar measured DTW as 24.17 ft bgs, flow rate as 600 mL/min, 75 gal purged
 Bromide concentration measured at 18.0 ppm

1555 Aerostar measured DTW as 26.6 ft bgs, flow rate as 600 mL/min, 80 gal purged; lightning break; sample discarded

1630 Return from lightning break; bromide probe recalibrated

1635 Aerostar measured DTW as 22.8 ft bgs, 2000 mL/min, 80 gal purged,
 Bromide concentration measured at 17.8 ppm

1645 Aerostar measured DTW as 24.45 ft bgs, 1600 mL/min, 85 gal purged,
 Bromide concentration measured at 16.0 ppm

1700 Aerostar measured DTW as 25.2 ft bgs, 600 mL/min, 85 gal purged,
 Bromide concentration measured at 17.8 ppm; Aerostar prep to take
 VAS sample for 30 ft bgs interval

1715 ~~1710~~ Aerostar measured DTW as 21.0 ft bgs

1730 Aerostar measured flow rate of sampler as 200 mL/min, turbidity 41 ntu

1735 Aerostar sampled aquifer at 30.0 ft bgs

1745 AECOM off site

End of summary 10-10-21

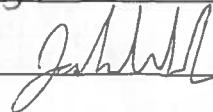
Signed: [Signature]

Field Activity Log

Project Name Former Whitcomb AFB Project No. 60514613
 Client EGLE Date 10-11-21
 Location Oscoda / Whitcomb Day S M T W TH F S D
 Contractor _____ Weather/Temp Sunny

Equipment Onsite:	Geoprobe 7822 DT
Personnel Onsite:	AECOM, Aerostar, Cascade Drilling
Work Performed (summary of services performed, including field work):	VAS
07:30	AECOM onsite at Aerostar field office
07:45	mobilization to DRMO WURVSD01
09:00	Mobilization to Aerostar field office to wait on Cascade
09:35	Cascade drilling onsite at Aerostar field office
09:50	Aerostar debriefs Cascade about job
10:00	Mobilization to CTS
10:20	Mobilization to BOA WURVSD031
10:35	Cascade onlt brought enough casing to go down to 50 ft, will bring more next time. Plan is to bore down to 50 ft bgs collect soil, then step over and start another boring for VAS
10:40	Cascades starting hand augering on WURVSD031
10:50	Informed by Aerostar that they will just do the VAS boring today and potentially come back with sonic for soil boring
11:00	Direct-push began, using 5 ft rods. pushing down to 20 ft, will collect 17 ft bgs - 20 ft bgs (3 ft Screen), casing 3/8ths inch
11:10	Drillers pushed down to 20 ft bgs, pulled up 3 ft and Aerostar Setup for sampling
11:30	Jeremiah called for check in
11:35	Aerostar Decomed WLM, tagged water level at 14.78 ft bgs, measured
6.78 → 15.78	ft bloc as bottom, noted possibly silted up
11:50	Aerostars tubing couldn't fit all the way down the casing, used drillers tubing instead, using 50-16's
11:56	Aerostar began peristaltic pumping, difficulty getting water, either because they cant get tubing deep enough as a result of lip on screen, or silting up too much
12:03	Aerostar decided to try and reset boring, drillers tripped tooling out

Signed: _____

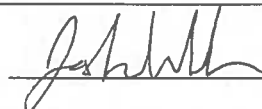


Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613 2023
 Client EGLE Date 10-11-21
 Location Oscoda / Wurtsmith Day S M T W TH F S D
 Contractor _____ Weather/Temp Sunny, Windy

Equipment Onsite: <u>Geoprobe 7822 DT</u>	
Personnel Onsite: <u>AECOM, Aerostar, Cascade</u>	
Work Performed (summary of services performed, including field work): <u>VAS</u>	
<u>12:15</u>	<u>After resetting, drillers couldn't get screen unlock tool out of the casing, Aerostar and drillers noted likely due to it silting up, tripped tooling out again (heavy sands)</u>
<u>12:25</u>	<u>Break time while cascade calls their boss for ideas</u>
<u>12:40</u>	<u>Cascade reset tooling again</u>
<u>12:45</u>	<u>Aerostar measured DTB as 20.55, 14.50 ft logs is DTW</u>
<u>12:50</u>	<u>Aerostar began peristaltic pumping on WURUS031, some type of grease keeps getting on WLM and tubing</u>
<u>13:00</u>	<u>Aerostar measured flow rate as 360 $\frac{mL}{min}$, 542 NTU's is turbidity</u>
<u>13:10</u>	<u>Grease on equipment likely from cascade's tooling, Aerostar asked them to decon their tooling. Decon by setting 5ft casing in bucket and washing solution down tubing a few times, move to 2nd bucket and do the same thing and use wire brush to clean out tooling</u>
<u>13:25</u>	<u>Aerostar measured turbidity as 31.1 NTU's, sampled</u>
<u>13:40</u>	<u>Cascade began direct-push again on WURUS031 down to Aerostar measured DTW total depth as 31.9 ft logs, no DTW recorded, smaller WLM is not working well</u>
<u>14:05</u>	<u>Aerostar began peristaltic pumping on WURUS031 @ 350 $\frac{mL}{min}$, Turbidity at 350 NTU's</u>
<u>14:40</u>	<u>Aerostar measured flow rate as 250 $\frac{mL}{min}$</u>
<u>15:10</u>	<u>Aerostar measured Turbidity as 388 NTU's</u>
<u>15:15</u>	<u>Aerostar measured Turbidity as 321 NTU's</u>
<u>15:30</u>	<u>Aerostar measured Turbidity as 255 NTU's, they are going to sample Aerostar took sample @ 15:32</u>
<u>15:35</u>	<u>Cascade began tripping out tooling</u>
<u>15:43</u>	<u>Cascade began direct-push</u>

Signed: _____



Field Activity Log

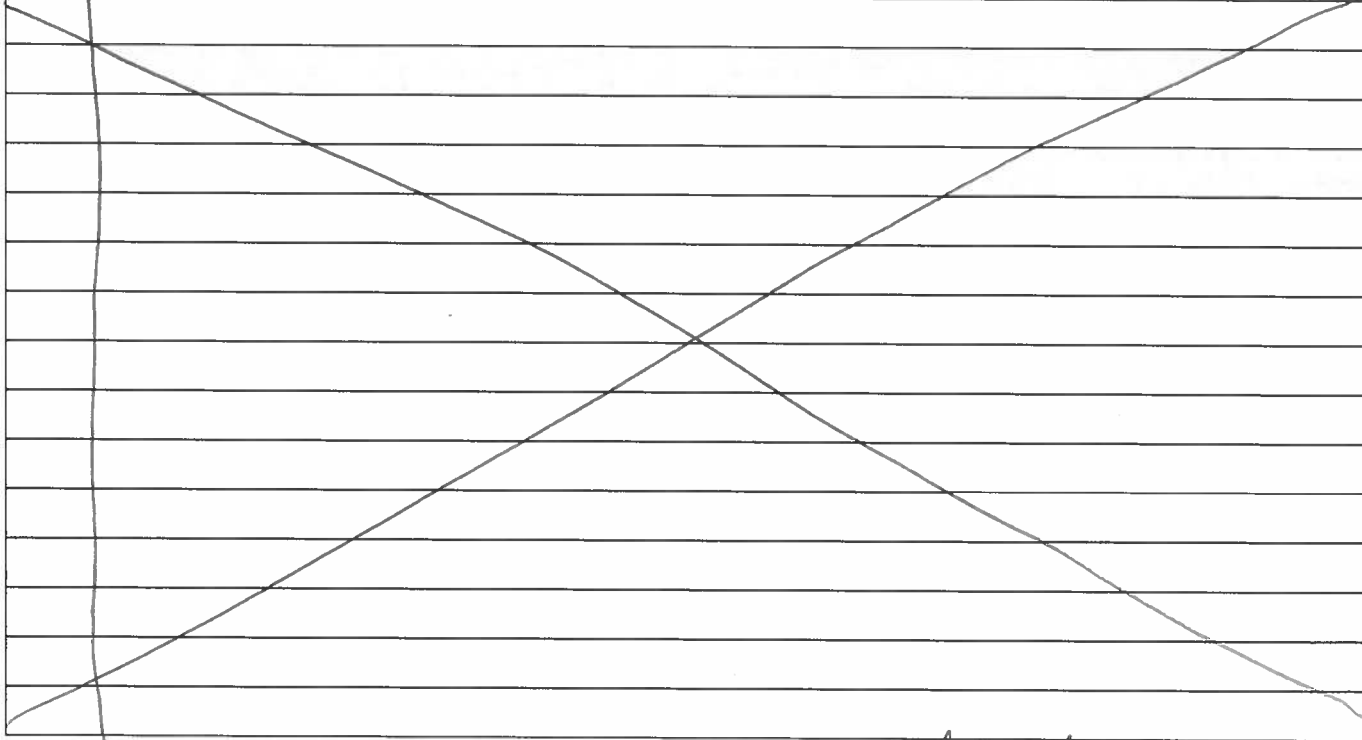
Project Name Former Worksmith AFB Project No. 60514613
Client EGLE Date 10-11-21
Location Oscoda / Worksmith Day S M T W TH F S
Contractor _____ Weather/Temp Cloudy, Windy, 75°F

Equipment Onsite: Geoprobe 7822DT

Personnel Onsite: AECOM, Aerostar, Cascade

Work Performed (summary of services performed, including field work):

VAS 40.73
16:00 Aerostar used WLM to measure DTB (Depth to bottom) as ~~37.3~~ 37.73 ft bgs,
No DTW recorded, black grease in tooling may be false triggering water
level meter
16:05 Drillers inserted tubing into casing so Aerostar could sample
16:10 Aerostar began peristaltic pumping on WVRSD31
16:29 Aerostar measured flow ~~met~~ rate at 100 $\frac{ML}{MIN}$
16:50 Aerostar measured flow rate as 150 $\frac{ML}{MIN}$
17:25 Aerostar measured turbidity as 525 NTU's
17:30 Aerostar packing up for the day, will continue purging tomorrow,
17:35 put trashbag over tubing in casing
17:35 AECOM offsite



Signed: *John White*

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-11-21
 Location Oscoda, MI Day S M T W TH F S
 Contractor _____ Weather/Temp _____

Equipment Onsite:	
Versa Sonic, Geoprobe	
Personnel Onsite:	
AECOM, Aerostar, Rock Water Drilling	
Work Performed (summary of services performed, including field work):	
VAS 18-in push ahead	
0730	AECOM arrive at Aerostar field office; Aerostar mob to VAS site
0750	AECOM mob to VAS site (DRMO WURVSDP1)
0810	Aerostar and Rock Water begin prepping for advancing sampler starting at 29.5ft bgs
0830	Rockwater pushes ahead 6" casing
0835	Rockwater pushes ahead 4" casing
0840	Rockwater pushes ahead 6" casing
0845	Rockwater extrudes soil sample for 30.0-40.0 ft
0900	Rockwater advances ahead 6" casing and 4" casing
0905	Rockwater measures bottom of screen to 39.0 ft bgs
0910	Aerostar measures DTW as 2.0 ft bgs; Rock water used 156.8 gal bromide water
0915	Aerostar preps for bromide water purging
0925	Aerostar measures flow rate as 5600 mL/min; 5 gal purged
0930	Aerostar measures bromide concentration as Aerostar calibrates bromide probe; bromide concentration measured as 79.9 ppm
0935	Aerostar measured DTW as 12.30 ft bgs; flow rate at 6000 mL/min; 10 gal purged, bromide concentration at 96.8 ppm
0950	Aerostar measured DTW as 13.35 ft bgs; flow rate at 8000 mL/min; 25 gal purged, bromide concentration at 96.3 ppm
0955	Bromide probe recalibrated
1000	Aerostar measured DTW as 12.0 ^{12.90} ft bgs; flow rate at 12000 mL/min; Bromide concentration at
1005	Bromide probe recalibrated, Bromide concentration at 98.9 ppm
1020	Aerostar measured DTW as 14.50 ft bgs, flow rate at 11000 mL/min; 30 gal purged, Bromide concentration at Bromide probe recalibrated

Signed:

Field Activity Log

Project Name Former Hurts, with AFB Project No. 60514613
 Client EGLT Date 10-11-21
 Location Oscoda, MI Day S M T W TH F S
 Contractor _____ Weather/Temp _____


Equipment Onsite: Versa Sonic

Personnel Onsite: AECOM, Aerostar, Rock Water Drilling

Work Performed (summary of services performed, including field work):
VAS 18-in push ahead

45.2

1025	Bromide concentration at 98.0 ppm
1050	Aerostar measured DTW as 15.6 ft bgs; flow rate as 1200 mL/min, 40 gal purged; Bromide probe recalibrated
1100	Aerostar measured bromide concentration as 45.2 ppm
1105	Aerostar measured DTW as 16.2 ft bgs; flow rate as 1300 mL/min, 45 gal purged, bromide concentration at 47.1 ppm
1120	Aerostar measured DTW as 16.5 ft bgs; flow rate as 1300 mL/min, 50 gal purged, bromide concentration at 49.0 ppm
1135	Aerostar measured DTW as 16.1 ft bgs; flow rate as 1000 mL/min, 55 gal purged, bromide concentration at 41.8 ppm
1150	Aerostar measured DTW as 15.6 ft bgs; flow rate as 850 mL/min, 60 gal purged
1155	Bromide concentration at 39.6 ppm
1200	Bromide probe recalibrated
1205	Aerostar measured DTW as 15.7 ft bgs; flow rate as 800 mL/min, 60 gal purged, bromide concentration at 48.8 ppm
1220	Aerostar measured DTW as 15.95 ft bgs; flow rate as 850 mL/min, 60 gal purged, bromide probe recalibrated
1225	Bromide concentration at 49.1 ppm
1230	Aerostar ^{adds} pumps to try and increase flow rate
1235	Aerostar measured DTW as 24.0 ft bgs; flow rate as 1200 mL/min, 70 gal purged; bromide probe recalibrated
1240	Bromide concentration at 62.7 ppm
1245	Aerostar measured DTW as 25.2 ft bgs; flow rate as 2600 mL/min, 75 gal purged, bromide probe recalibrated
1250	Bromide concentration at 91.0 ppm

Signed: 

Field Activity Log

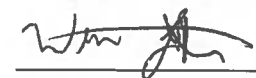
Project Name Former Huntsmith APB Project No. 60514613
 Client EGLE Date 10-11-21
 Location Oscoda, MI Day M T W TH F S S
 Contractor _____ Weather/Temp _____

Equipment Onsite:
Versa Sonic

Personnel Onsite:
AECOM, Aerostar, Rock water Drilling

Work Performed (summary of services performed, including field work):
VAS 18-in Push ahead

1305	Aerostar measured DTW as 29.0 ft bgs; Flow rate as 4000 mL/min 80 gal purged
1310	Bromide probe recalibrated, bromide concentration at 65.1 ppm
1320	Aerostar measured DTW as 31.0 ft bgs, Flow rate as 3700 mL/min, 90 gal purged, bromide probe recalibrated
1325	Bromide concentration at 51.7 ppm
1330	Break for Lunch
1405	Aerostar measured DTW as 27.7 ^{ft bgs} Flow rate as 4000 mL/min, 112 gal purged, bromide probe recalibrated, Bromide concentration at 19.5 ppm
1415	Aerostar measured DTW as 27.8 ft bgs, Flow rate as 2600 mL/min, 120 gal purged, bromide concentration at 19.6 ppm
1425	Aerostar measured DTW as 27.0 ft bgs, Flow rate as 3000 mL/min, 125 gal purged, bromide concentration at 18.0 ppm
1440	Aerostar measured DTW as 24.7 ft bgs, Flow rate as 1600 mL/min, 125 gal purged, bromide concentration at 15.8 ppm
1455	Aerostar measured DTW as 24.4 ft bgs, Flow rate as 1200 mL/min, 130 gal purged, bromide probe recalibrated
1500	Bromide concentration at 12.0 ppm
1510	Aerostar measured DTW as 26.15 ft bgs, Flow rate as 1800 mL/min 133 gal purged, bromide concentration at 18.9 ppm
1523	Aerostar measured DTW as 26.1 ft bgs, flow rate as 2600 mL/min 135 gal purged, bromide probe recalibrated
1530	Bromide concentration at 9.9 ft bgs,
1540	Aerostar preps for 40.0 ft bgs water sample
1550	Aerostar measured DTW as 18.2 ft bgs and total depth of hole as 38.90 ft bgs

Signed: 

Field Activity Log

Project Name Former Wurtsmith AFB Project No. 6051463
 Client EGL Date 10-11-21
 Location Oscoda, MI Day S M T W Th F S
 Contractor _____ Weather/Temp _____

209.48

Equipment Onsite:	
Versa Sonic	
Personnel Onsite:	
AECOM, Aerostar Rock Water Drilling	
Work Performed (summary of services performed, including field work):	
VAS 18-in push ahead	
1555	sampling pump flow rate at 250 mL/min, turbidity at 46.4 NTU
1600	flow rate checked again at 300 mL/min, DTW at 15.75 ft bgs
1605	AECOM bathroom break
1620	Rock water begins advancing casing for 40.0-50.0 ft soil sample
1645	Rock water extrudes 40.0-50.0 ft soil sample
1705	Heave preventing 4" casing from advancing
1730	Rock water measured 4" casing depth (bottom of screen) to 49.0 ft bgs
1740	AECOM off site
End of summary 10-11-21	

Signed: 

Field Activity Log

Project Name Former Wurtsmith AP3 Project No. _____
 Client EGLE Date 10-12-21
 Location Oscoda, MI Day S M T W Th F S
 Contractor _____ Weather/Temp cloudy, Rain 67°F

Equipment Onsite:	
Geoprobe / Versa Sonic	
Personnel Onsite:	
AECOM, Aerostar, Rock Water Drilling	
Work Performed (summary of services performed, including field work):	
Direct push drilling oversite / EGLE split samples / 18in push ahead VA	
0730	AECOM arrive at Aerostar field office
0745	Aerostar and Rock Water mob to FT002 (WURSB170)
0830	Aerostar and Rock Water begin direct push on WURSB170
0945	Rockwater chips in bentonite and demobs WURSB170; Aerostar and Rockwater mob to WURSB173
0950	AECOM bathroom break
1030	Aerostar and Rock Water begin direct push on WURSB173; Noel on site
1115	Rock Water chips in bentonite and demobs WURSB173; mob to WURSB172
1130	Aerostar mobs to WURSB172; AECOM mob to WURSB171 to check-in
1150	Aerostar and Rock Water begin direct push on WURSB172
1155	Aerostar purging since 0905
1200	Aerostar measured DTW as 19.82 Ft bgs, flow rate as 2600 mL/min, 105 gal purged
1205	Bromide concentration 62.5 ppm
1210	AECOM mob to direct push WURSB172
1240	Rock Water chips in bentonite and demobs WURSB172; mob to WURSB175
1305	Bathroom break
1315	Aerostar and Rock Water begin direct push on WURSB175
1400	Be Rock Water chips in bentonite and demobs WURSB175; mob to WURSB177
1420	Aerostar and Rock Water begin direct push on WURSB177
1515	Rock Water chips in bentonite and demobs WURSB177; mob to WURSB178
1530	Aerostar and Rock Water begin direct push on WURSB178
1635	Rock Water chips in bentonite and demobs WURSB178 back to field office; AECOM back to field office

Signed: 

Field Activity Log

Project Name Former Wurtsmith AFB Project No. _____
 Client EGLE Date 10-12-21
 Location Oscoda, MI Day S M T W TH F S D
 Contractor _____ Weather/Temp Cloudy, Rain 65°F

Equipment Onsite:
Geoprobe/Versa Sonic

Personnel Onsite:
AECOM, Aerostar, Rock Water Drilling

Work Performed (summary of services performed, including field work):
(WPS) Drilling Direct push drilling oversite / EGLE split samples / 8' in push at pai

<u>1640</u>	<u>AECOM to WURVSCOPI to oversite on VAS sonic drilling</u>
<u>1645</u>	<u>(WPS)</u>
<u>1700</u>	<u>Aerostar measured DTW as 19.9 ft bgs, flow rate as 2100 mL/min, 290 gal purged</u>
<u>1705</u>	<u>Bromide concentration at 18.8 ppm</u>
<u>1715</u>	<u>Aerostar measured DTW as 19.9 ft bgs, flow rate as 2100 mL/min, 305 gal purged; Bromide concentration at 16.5 ppm</u>
<u>1720</u>	<u>Bromide concentration at (WPS)</u>
<u>1725</u>	<u>Aerostar preps to take VAS sample at 50.0 ft bgs interval</u>
<u>1740</u>	<u>Aerostar measured flow rate of sampler as 6600 mL/min, turbidity at 55.5 NTU (WPS)</u>
<u>1840</u>	<u>turbidity measured at 55.5 NTU</u>
<u>1845</u>	<u>AECOM off site</u>

End of Summary 10-12-21

Signed: [Signature]

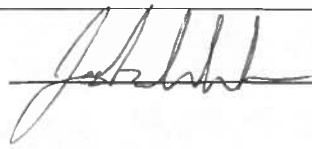
Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-12-21
 Location Oscoda / Wurtsmith Day S M T W TH F S
 Contractor _____ Weather/Temp Cloudy, intermittent rain

90

Equipment Onsite:	Geoprobe 7822DT
Personnel Onsite:	AECOM, Aerostar, Cascade
Work Performed (summary of services performed, including field work):	VAS
07:30	AECOM onsite at Aerostar field office
08:05	Mobilization to BOA WURUS031, Aerostar began setting up peristaltic on WURUS031
08:45	Cascade upgraded decon station to standard kit used by Aerostar, 4 bucket/Stage and added exclusionary zone around rig.
08:46	Aerostar began peristaltic purging on WURUS031
09:10	Turbidity at 110 NTU's, flow rate at 120 $\frac{mL}{min}$
09:20	Aerostar collected sample at 47.6 NTU's, WUR10076 (40.0-43.0) DTB could not be recorded using Small WLM
09:30	Cascade began tripping tooling out
09:40	Cascade began pushing down to 53 ft bgs
09:50	Cascade stopped pushing on WURUS031
10:10	Aerostar began purging via peristaltic, no DTW or DTB recorded
10:20	Turbidity measured over 1100 NTU's
10:45	Turbidity measured over 1100 NTU's
12:15	Turbidity measured as 746 NTU's
12:55	Turbidity measured as 482 NTU's
13:05	Turbidity measured as 505 NTU's
13:25	Turbidity measured as 754 NTU's
13:40	Turbidity measured as 579 NTU's, sample collected
13:46	Cascade began tripping out tooling on WURUS031
13:50	Cascade began pushing down to 63 ft bgs
14:18	Aerostar began peristaltic purging on WURUS031
15:05	Jeremiah called for check-in
16:20	Turbidity measured as 77.5 NTU's
17:05	Turbidity measured as 39 NTU's

Signed: _____



Field Activity Log

Project Name Former Wurtsmith AFB Project No. 60514613
Client EGLE Date 10-12-21
Location Oscoda / Wurtsmith Day SO MO TU WO THO FO SO
Contractor _____ Weather/Temp _____

Equipment Onsite:	<u>Geoprobe 7822 DT</u>
Personnel Onsite:	<u>AECOM, Aerostar, Cascade</u>
Work Performed (summary of services performed, including field work):	<u>VAS</u>
17:17	<u>Aerostar collected Sample WUR10077 (60.0-63.0)</u>
17:20	<u>Cascade began tripping tooling out</u>
17:30	<u>Cascade began pushing down on WURVS031, pushed down to 73 ft bgs. Aerostar will sample tomorrow</u>
18:01	<u>AECOM offsite</u>

Signed:

Field Activity Log

Project Name Fomer Wurtsmith AFB Project No. 60514613
 Client EGLE Date 10-13-21
 Location Oscoda / Wurtsmith Day SO MO TO W TH FO SO
 Contractor _____ Weather/Temp _____

Equipment Onsite:	Geoprobe 7822 DT
Personnel Onsite:	AECOM, Aerostar, Cascade
Work Performed (summary of services performed, including field work):	<p>VAS</p> <p>07:40 AECOM onsite at Aerostar field office, Jeremiah called for check-in</p> <p>07:50 Mobilization to BOA WURUS031</p> <p>08:00 Aerostar and Cascade began setting up to continue purging on WURUS031</p> <p>08:20 Aerostar began peristaltic purging on WURUS031</p> <p>08:30 Aerostar noted possibility of purging in clay layer due to the gray water coming out, asked cascade to pull tooling up a little bit in order for them to sample above the clay layer. Clay layer depth not precisely known. Drillers noted difficulty pushing ~70 ft</p> <p>08:45 After tooling was pulled up to ~70 ft, Aerostar asked cascade to pull up some more as they thought they were still in the clay layer</p> <p>08:50 After consultation from Noel (Aerostar) they decided not to sample and Cascade began tripping tooling out of WURUS031 + Drilling Complete</p> <p>09:20 Mobilization to CTS</p> <p>09:50 Arrival at DRMO, Scoped out site in woods and prepped</p> <p>10:15 Cascade began hand augering on WURUS005</p> <p>10:25 Cascade began direct-push on WURUS005,</p> <p>10:35 Aerostar measured DTB^{DTW} as 11.30 ft bgs, DTB as 13 ft bgs</p> <p>10:40 Aerostar began peristaltic purging on WURUS005, Screen 10-13 ft bgs</p> <p>10:50 Aerostar measured flow rate as 300 $\frac{mL}{min}$</p> <p>11:00 Aerostar measured Turbidity as 110 NTU</p> <p>11:10 Aerostar measured turbidity as 42.6 NTU's</p> <p>11:15 Aerostar sampled</p> <p>11:30 AECOM offsite</p>

Signed: _____

PROJECT: Former Wurtsmith AFB		VAS Boring ID: WURVS001	
BORING LOCATION: DRMO WURVS001		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water	DATE STARTED: 10-09-21	DATE FINISHED: 10-13-21	
DRILLING METHOD: Sonic	TOTAL DEPTH: 70.0 ft bgs	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: versa Sonic	MEASURED DEPTH TO WATER: 11.15 ft bgs	DEPTH OF SATURATED MEDIA: 13.0 ft bgs	
SAMPLING METHOD: VAS		LOGGED BY: Joshua Walker	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
1	Topsoil		Initial Bromide at 99.8 ppm
1	fine-med sand, light brown, moist ~10 ft		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11	▼ DTW = 11.15 ft bgs		
12			
13			
14	med - Coarse Sand, light brown Poorly Sorted		

PROJECT: Former Wurtsmith AFB		VAS Boring ID: WURVS $\phi\phi 1$	
BORING LOCATION: DRMO		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water	DATE STARTED: 10-09-21	DATE FINISHED: 10-13-21	
DRILLING METHOD: Sonic	TOTAL DEPTH: 70.0 ft bgs	TOTAL SAMPLES COLLECTED:	
DRILLING EQUIPMENT: versa Sonic	MEASURED DEPTH TO WATER: 11.15 ft bgs	DEPTH OF SATURATED MEDIA: 13.0 ft bgs	
SAMPLING METHOD: VAS		LOGGED BY: Joshua Walker	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	med-coarse sand, brown, trace gravel ~ 19.0-20.0 ft bgs		Airforce: WUR13 ϕ 32 (14.5-16.0) @ 15:30 (14.5-16.0 ft bgs) Bromide @ 0.0 ppm 5.0 gal purged, 0 gal used EGLE: GW211 ϕ 9153 ϕ JW
17			
18			
19			
20	med sand, light-brown, ~20% gravel lens 2.0 ft 3.0 ft, trace fines coarse sand		WUR13 ϕ 33 (19.0-20.5) @ 17:05 No Drill water used, 7.5 gal purged
21			
22			
23			
24			
25	gravel-small coarse sand lens @ 25 ft bgs		
26			
27	gravel-small coarse sand lens @ 27 ft bgs		(28.0-29.5) @ 17:31 bromide @ 12.8 ppm 85 gal purged Airforce: WUR13 ϕ 34 (28.0-29.5)
28			
29	gravel-small coarse sand lens @ 29 ft bgs		

PROJECT: Former Wurtsmith AFB		VAS Boring ID: WURV5001		
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes	
31	SAND - Light Brown, Fine to Coarse SP trace gravel			
32				
33				
34				
35				
36				
37				
38				156.80 gal used
39				Initial bromide concentration = 99.9 ppm Airforce: WUR13035 (1601)
40				(37.5-39.0 ft) 140 gal purged bromide at 9.9 ppm
41	SAND - Light Brown, Fine to Coarse, trace gravel, trace silt SP			
42				
43				
44				
45				
46				
47				

PROJECT:

Former Wurtsmith AFB

VAS Boring ID: WURVS001

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
49		X	205.48 gal used
50			Initial bromide concentration: 122.4 ppm
51			Bromide @ 12.5 12.8 ppm at time of sample
52			Airforce: WUR13036 (1835)
53			47.5 - 49.0 ft bgs
54			305 gal purged
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			

PROJECT: Former Wurtsmith AFB		VAS Boring ID: WURV5001	
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
66	CLAY		
67			
68			
69			
70			
	EOB at 70.0 ft bgs Reason for End { -sampling complete {-Clay layer was reached		

PROJECT: Former Wurtsmith AFB-60514613		VAS Boring ID: WURVS004	
BORING LOCATION: DRMO WURVS004		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz Drilling		DATE STARTED: 10-05-21	DATE FINISHED: 10-09-21
DRILLING METHOD: Sonic		TOTAL DEPTH: 69.5 ft bgs	TOTAL SAMPLES COLLECTED: 6
DRILLING EQUIPMENT: versa sonic		MEASURED DEPTH TO WATER: 11.05 ft	DEPTH OF SATURATED MEDIA:
SAMPLING METHOD: VAS - 18in. Screen push-ahead		LOGGED BY: Joshua Walker	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
1	↓ Frontz begins using water. 238.02 gal Bromide 106.3 $\frac{mg}{L}$		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			





First interval VAS (13-14.5)

PROJECT: Former Wurtsmith AFB		VAS Boring ID: WURV5004	
BORING LOCATION: DRMO WURV5004		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz		DATE STARTED: 10-05-21	DATE FINISHED:
DRILLING METHOD: Sonic		TOTAL DEPTH:	TOTAL SAMPLES COLLECTED:
DRILLING EQUIPMENT: versa sonic		MEASURED DEPTH TO WATER: 11.05 ft	DEPTH OF SATURATED MEDIA:
SAMPLING METHOD: VAS - 18in. push-ahead		LOGGED BY: Joshua Walker	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16			
17			
18			
19			
20			(18.5-20.0) 238 128 gal purged EGLE split: GW2110061432JW Airforce: WUR13048 @ 14:32 WUR13048 (18.5-20.0) @ 14:32 Bromide @ 10.5 ppm
21	Fine to medium sand throughout ~ 10% gravel, ~ 20% fines, poorly sorted (20.0 - 30.0) ft bgs		
22			
23			
24			
25			
26			
27			
28			Airforce: WUR13049 (27.5-29.0) @ 11:15 Bromide @ 10.0 ppm 103 gal purged
29			

PROJECT: Former Wurtsmith AFB		VAS Boring ID:	
BORING LOCATION: DRMO WURV5004		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water	DATE STARTED: 10-05-21	DATE FINISHED:	
DRILLING METHOD: Sonic	TOTAL DEPTH:	TOTAL SAMPLES COLLECTED:	
DRILLING EQUIPMENT: Versa Sonic	MEASURED DEPTH TO WATER:	DEPTH OF SATURATED MEDIA:	
SAMPLING METHOD: VAS		LOGGED BY: Jashva Walker	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
31	(30.0 ft - 40.0 ft) No recovery		
32			
33			
34			
35			
36			
37			
38			Airforce: WUR13050 (38.0-39.5)
39			Bromide @ 9.0 ppm 126.0 gal purged
40	med grained sand, ~20% fines		
41	(40.0 - 50.0) Coarse sand lens ~ 40 ft - 44 ft.		
42			
43			
44			

PROJECT: Former Wurtsmith AFB		VAS Boring ID:	
BORING LOCATION: DRMO WURV5004		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water		DATE STARTED: 10-05-21	DATE FINISHED:
DRILLING METHOD: Sonic		TOTAL DEPTH:	TOTAL SAMPLES COLLECTED:
DRILLING EQUIPMENT: versa Sonic		MEASURED DEPTH TO WATER:	DEPTH OF SATURATED MEDIA:
SAMPLING METHOD: VAS		LOGGED BY: Joshua Walker	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
46			
47			
48			
49			
50			
51	(50.0-60.0) gravel lens ~ 52 ft Coarse Sand throughout, poorly Sorted. Gravel is small, well-sorted ~ 30% fines		
52			
53			
54			
55			
56			
57			
58			
59			

WUR13051 (48.0-49.5) @ 11:37
 Bromide @ 9.8 ppm
 168 gal purged

(59.0-60.5) Bromide @ 8.7 ppm 209 gal purged
 Airforce: WUR13051A (59.0-60.5) @ 18:10

PROJECT: Former Wurtsmith AFB		VAS Boring ID:	
BORING LOCATION: DRMO WURUS004		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water	DATE STARTED: 10-05-21	DATE FINISHED: 10-09-21	
DRILLING METHOD: Sonic	TOTAL DEPTH:	TOTAL SAMPLES COLLECTED:	
DRILLING EQUIPMENT: Versa Sonic	MEASURED DEPTH TO WATER: 11.05 ft bgs	DEPTH OF SATURATED MEDIA:	
SAMPLING METHOD: VAS		LOGGED BY: Joshua Walker	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
61	med-coarse sand, poorly sorted, ~30% fines, trace small gravel		
62			
63			
64			
65			
66		clay	
67			
68			
69			
70	EOB @ 69.5 ft bgs hit basal clay layer of aquifer		
71			
72			
73			
74			

PROJECT: former Wurtsmith AFB		Soil Boring ID: WUR5B026	
BORING LOCATION: Alert Aircraft Area		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water		DATE STARTED: 10-09-21	DATE FINISHED: 10-09-21
DRILLING METHOD: Direct Push		TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED: 3
DRILLING EQUIPMENT: Geoprobe		MEASURED DEPTH TO WATER: 18.3 ft bgs	DEPTH OF SATURATED MEDIA: 16.5 ft bgs
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	LOOKING FOR ANY SAMPLES BELOW 4.0 ft bgs 10-09-21 SAMPLE IDs/Notes Hole was previously sampled on 09-16-21
1	TOPSOIL - Dark Brown, sandy silty		offset 3.0 ft NW of previous hole
2	SAND - Brown, Fine to medium SP		
3			
4			
5	SAND - Dark Brown, Fine to coarse sm trace gravel, silty		
6	SAND - Brown, Fine to medium SP Dry		
7	SAND - Brown, Fine silty sm saturated		
8	SAND - Brown, Fine, clayey, med plasticity seams of clay non cohesive saturated		
9			
10			
11	← Final seam of clay - holding perched water		
12	SAND - Light Brown, Fine to medium		
13			
14	↓ Fine to coarse		

-WUR11773 (1110)

-WUR11774 (1124)

-WUR11774-A (1144)

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WUR SB 26

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	▽ soil is saturated at 16.5ft bgs	/ / / / /	-EGLE Split: SB2110091144WPS
17			
18	▽ WLM Reading at 18.3 ft bgs		
19			
20	EOB at 20.0ft		
	Reason for End {		
	-sampling complete		
	-soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WUR 52027	
BORING LOCATION: Alert Aircraft Area		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rockwater		DATE STARTED: 10-09-21	DATE FINISHED: 10-09-21
DRILLING METHOD: Direct Push		TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED:
DRILLING EQUIPMENT: Geoprobe		MEASURED DEPTH TO WATER: Hole collapse = no reading	DEPTH OF SATURATED MEDIA: 15.8 ft bgs
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	LOOKING FOR SAMPLES BELOW 4.0 ft bgs 10-09-21 SAMPLE IDs/Notes Hole was previously sampled on 09-16-21 offset 2.0 ft NW from previous hole
1	Topsoil - Dark Brown, Sandy silt SP		
2			
3			
4			
5	SAND - Brown, Fine to medium silty, clayey w/ plasticity SM-SG non cohesive w/ seams of clay saturated		- WUR11778 (1229) - EGLE split: SB2110091229WPS
6			
7			
8	CLAY - Brown, sandy CL saturated		
9	SAND - Brown, Fine to medium SP-SG w/ clay saturated		
10	CLAY clay w/ perched water above		
11	vsand - Brown, Fine to medium SP		- WUR11779 (1243)
12	Light Brown		
13			
14			- WUR11779-A (1253)

PROJECT:

FORMER WINTSMITH A-B

Soil Boring ID:

WUR53027


DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	Soil is saturated at 15.8ft bgs	/	
17			
18	SAND-Brown, Fine to Loose		
19	sw trace gravel		
20	EOB at 20.0ft bgs		
	Reason for END		
	- sampling complete		
	- soil is saturated		

PROJECT: Former Wurtsmith AFB		VAS Boring ID:	
BORING LOCATION: BOA WURV031		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Cascade		DATE STARTED: 10-11-21	DATE FINISHED: 10-13-21
DRILLING METHOD: Geoprobe 7822DT Direct-push		TOTAL DEPTH: 73 ft bgs	TOTAL SAMPLES COLLECTED: 5
DRILLING EQUIPMENT: Geoprobe 7822DT		MEASURED DEPTH TO WATER: 14.50 ft bgs	DEPTH OF SATURATED MEDIA:
SAMPLING METHOD: VAS		LOGGED BY: Joshua Walker	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			




PROJECT: Former Wurtsmith AFB

VAS Boring ID: WURUS031

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32			<p>Air Force: No water used in direct-push WUR10074 (17.0-20.5) (17.5-20.5) @ 13:30</p> <p>(28.9-31.9) (29.0-32.0) @ 15:32 Air Force: WUR10075 (28.9-31.9)</p>






PROJECT: Farmer Wurtsmith AFB

VAS Boring ID:

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
34			
35			
36			
37			
38			
39			
40			
41			Airforce: WUR10076 (40.0-43.0) @ 09:20
42			
43			
44			
45			
46			
47			
48			
49			
50			Airforce: WUR10077 (50.0-53.0) @ 13:40

PROJECT: Former Wurtsmith AFB

VAS Boring ID: WVRV5031

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			Airforce: WUR10077 (60.0-63.0) @ 17:07
62			
63			
64			
65			
66			
67			
68			

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB068	
BORING LOCATION: CAT605P BOA		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rockwater		DATE STARTED: 10-09-21	DATE FINISHED: 10-09-21
DRILLING METHOD: Direct Push		TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED: 6
DRILLING EQUIPMENT: Geoprobe		MEASURED DEPTH TO WATER: 19.2 ft bgs	DEPTH OF SATURATED MEDIA: 18.5 ft bgs
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0 - 1	Topsoil - Dark Brown sandy gravelly	[Hatched]	-WUR08164 (0851)
1 - 2	SAND - Brown, Dark Brown, F-m	[Hatched]	-WUR08165 (0908)
2 - 3	SAND - Light Brown, Fine to medium	[Hatched]	-WUR08166 (0912)
3 - 6		[Hatched]	
6 - 7		[Hatched]	-WUR08167 (0917)
7 - 10		[Hatched]	
10 - 11	SAND - Brown, Fine to medium	[Hatched]	-WUR08168 (0926)
11 - 12		[Hatched]	
12 - 13		[Hatched]	
13 - 14		[Hatched]	

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURS3068

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	SAND - Brown Fine to coarse	/ / / / /	-WUR08168-A (0948)
17			
18	∇ soil is saturated at 18.5ft bgs		
19	∇ WLM reading at 19.2ft bgs		
20	EOB at 20.0ft bgs		
	Reason for End { - sampling complete		
	for End { - soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURS3109	
BORING LOCATION: FT002		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rockwater		DATE STARTED: 10-08-21	DATE FINISHED: 10-08-21
DRILLING METHOD: Direct Push		TOTAL DEPTH: 12.0 ft bgs	TOTAL SAMPLES COLLECTED: 2
DRILLING EQUIPMENT: Geoprobe		MEASURED DEPTH TO WATER: N/A	DEPTH OF SATURATED MEDIA: N/A
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - Dark Brown sandy silty loam		09-23-21 Hole was originally sampled for 0.0-0.5, 0.5-2.0, 2.0-4.0
1	SAND - Brown Fine to coarse		
2			
3			
4			
5			
6			- WUR04518 (1448)
7			
8	↓ Light Brown		
9			- WUR04519 (1453)
10			- EGLE split: SB2110081453WP3
11			
12			
13			
14			

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB123	
BORING LOCATION: CAT 6φ5P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water	DRILLING METHOD: Direct Push	DATE STARTED: 10-13-21	DATE FINISHED: 10-13-21
DRILLING EQUIPMENT: G6 probe		TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 9
		MEASURED DEPTH TO WATER: 14.4 ft bgs	DEPTH OF SATURATED MEDIA: 13.0 ft bgs
SAMPLING METHOD:		LOGGED BY: W. Stambough	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - Dark Brown Sandy		EB on sample spoon: WUR 25162 (1132)
1	SAND - Brown, Fine to Coarse SP with seams of clay		-WUR05520, WUR05520-MS, WUR05520-SD (11)
2			-WUR05521 (1225)
3			-WUR05522 (1231)
4			
5	SAND - Brown, Fine to Coarse SW trace gravel		-WUR05523 (1241)
6			-WUR051002 (1241)
7			
8			
9			
10			
11			-WUR05524 (1246)
12			
13	∇ saturation in sleeve at 13.0 ft bgs		
14	∇ wlm reading at 14.4 ft bgs		

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: W4RSB123

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason for End { -sampling complete -soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WUR53125	
BORING LOCATION: CAT605P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water	DATE STARTED: 10-13-21	DATE FINISHED: 10-13-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 9	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 14.3 ft bgs	DEPTH OF SATURATED MEDIA: 14.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
			E13 on sample spoon: WUR25163 (1012)
1	Topsoil - Dark Brown, sandy w/ clay		- WUR05530, WUR05530-MS, WUR05530 (1015) + 1017
1	SAND - Brown fine to coarse sw trace gravel		- WUR05531 (1031)
2			- EGLE split: SB2110131031 WPS
3			- WUR05532 (1035)
4			
5			
6			- WUR05533 (1053)
6			- WUR051003 (1053)
7			
8			
9	SAND - Brown, Fine to medium SP		
10			
11			- WUR05534 (1100)
12			- EGLE split: SB2110131100 W1
13	SAND - Brown, Fine to coarse sw lenses gravel		
14	↓ saturation in sleeve at 14.0 ft bgs ↓ WCM reading at 14.3 ft bgs		

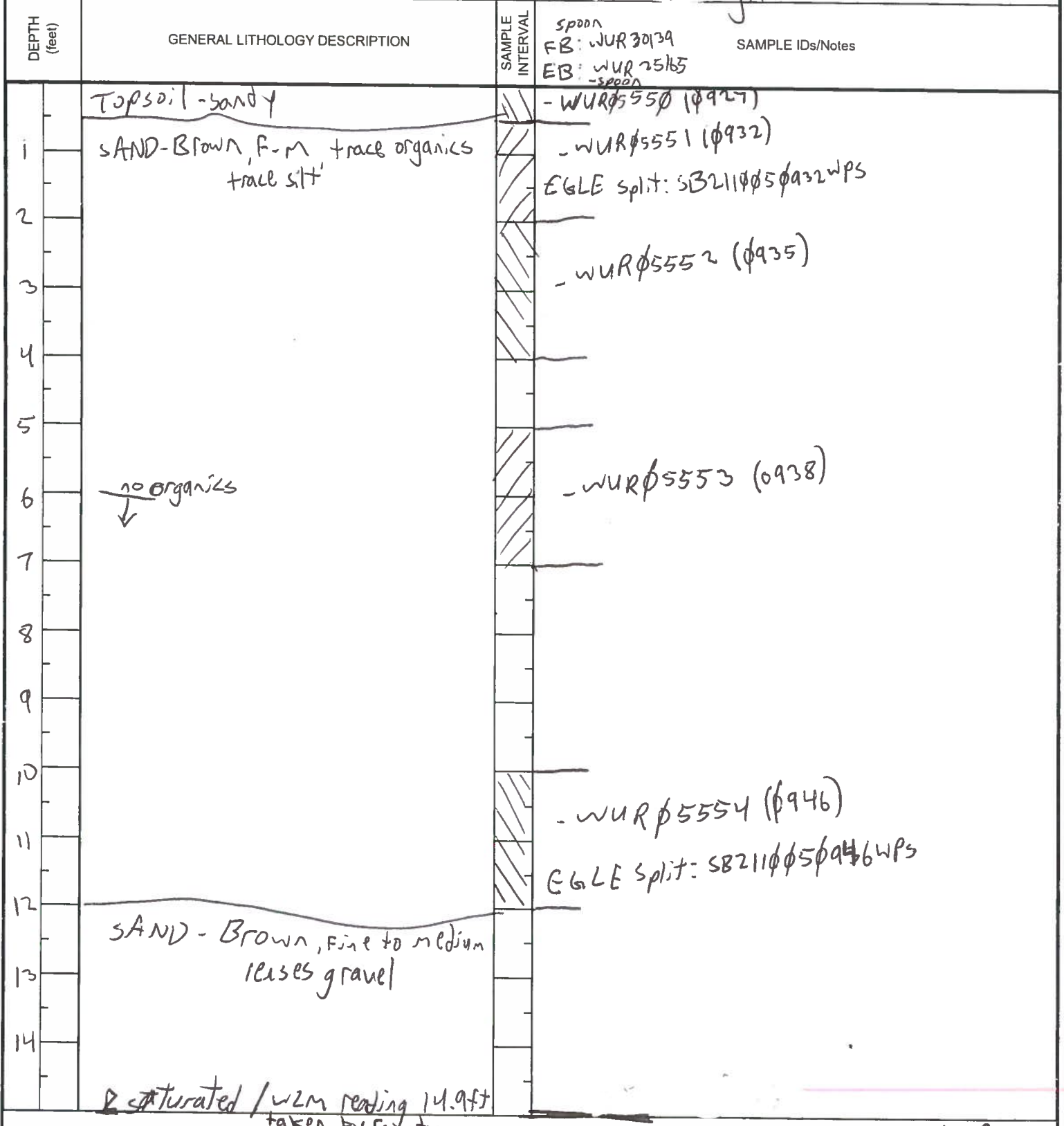
PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURS3125

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason For End { -sampling complete - soil is saturated		

PROJECT: wurtsmith Former AFB RI		Soil Boring ID: WURSB129	
BORING LOCATION: CAT605P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz	DATE STARTED: 10-05-21	DATE FINISHED: 10-05-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 15.0 ft bgs	DEPTH OF SATURATED MEDIA: 14.9 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	



PROJECT:

Soil Boring ID: WURSB129

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB 16ft bgs reason { -sampling complete for end { -soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WUR5B127	
BORING LOCATION: CAT65P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz	DATE STARTED: 10-06-21	DATE FINISHED: 10-06-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 6	
DRILLING EQUIPMENT: Gp probe	MEASURED DEPTH TO WATER: cave in at 13.0 ft bgs - no reading	DEPTH OF SATURATED MEDIA: 13.4 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
			EB on bowl: WUR25164 (0935)
0-1	Topsoil - sandy gravelly		- WUR05540 (0938)
1-2	SAND - Brown, Fine to Coarse		- WUR05541 (0947)
2-3			- EGLE split: SB2110060947WPS
3-4	SAND - Brown, Fine to medium trace coarse sand		- WUR05542 (0952)
4-5			- Dup (WUR051004 0952)
5-6			- WUR05543 (0956)
6-7			
7-8			
8-9	SAND - Light Brown, Fine		
9-10			
10-11			- WUR05544 (1000)
11-12			- EGLE split: SB2110061000WPS
12-13			
13-14	□ saturated in sleeve 13.4 ft bgs		* cave in at 13.0 ft bgs so WLM was unable to get a reading

PROJECT:

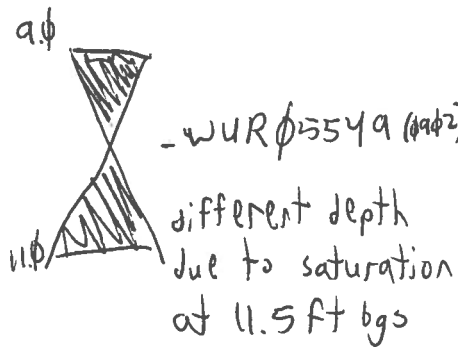
Former Wurtsmith AFB

Soil Boring ID: WURSB127

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason } - sampling complete for End { - soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURS8128	
BORING LOCATION: CAT605P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz	DRILLING METHOD: Direct Push	DATE STARTED: 10-06-21	DATE FINISHED: 10-06-21
DRILLING EQUIPMENT: Geoprobe	SAMPLING METHOD:	TOTAL DEPTH: 12.0 ft bgs	TOTAL SAMPLES COLLECTED: 5
		MEASURED DEPTH TO WATER: 10.3 ft bgs	DEPTH OF SATURATED MEDIA: 11.5 ft bgs
		LOGGED BY: WBS Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - Brown sandy		-WURφ5545 (φ832)
1	SAND - Light Brown, Fine to medium SR		-WURφ5546 (φ845)
2			
3			-WURφ5547 (φ850)
4			
5			
6			-WURφ5548 (φ854)
7			
8			
9	SAND - BROWN, Fine to Coarse SW		
10	∇ WLM reading by Aerostar at 10.3 ft bgs		
11	∇ saturated in sleeve at 11.5 ft bgs		-WURφ5549 (φ852)
12	EOB at 12.0 ft bgs		
13	Reason for end - sampling complete and soil is saturated		
14			



PROJECT: Former Wurtsmith AFB RI		Soil Boring ID: WUR53130	
BORING LOCATION: CAT 605P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz	DATE STARTED: 10-05-21	DATE FINISHED: 10-05-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 15.1 ft bgs	DEPTH OF SATURATED MEDIA: 14.5 ft bgs	
SAMPLING METHOD:		LOGGED BY: w. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Top soil - sandy		
1	SAND - Brown, fine to medium		-WUR05555 (11057) -WUR05556 (1106)
2			EGLE split: SB211051106WPS
3			-WUR05557 (1111)
4			
5			
6			-WUR05558 (1120)
7			
8			
9			
10			
11			-WUR05559 (1127)
12			EGLE split: SB211051127WPS
13			
14	☑ saturated in sleeve		

PROJECT: _____ Soil Boring ID: WURSB130

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB 16.0 ft bgs Reason for EOB { - sampling complete - soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WUR58131	
BORING LOCATION: CAT605P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz	DRILLING METHOD: Direct Push	DATE STARTED: 10-06-21	DATE FINISHED: 10-06-21
DRILLING EQUIPMENT: Geoprotel	SAMPLING METHOD:	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 6, 1EB
		MEASURED DEPTH TO WATER: 13.8 ft bgs	DEPTH OF SATURATED MEDIA: 11.5 ft bgs
		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
			613 on sampling spoon: WUR 25166 (1135)
1	Topsoil - Brown, sandy roots		WUR05560 (1138)
1	SAND - Brown, fine to coarse sw		-WUR05561 (1145)
2			-WUR05562 (1149)
3			
4			
4	SAND - Light brown, fine to medium trace gravel		
5			-WUR05563 (1153)
6			
7			
8			
9		9.0	-WUR05564 (1208)
10			-WUR051006 (1208) Dup
11	∇ saturated in sleeve at 11.5 ft bgs	11.0	
12	SAND - Brown, fine to coarse sw		
13			
14	∇ WLM reading at 13.8 ft bgs ran by Frontz		

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURS3131

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOD at 16.0 ft bgs Reason for END { - sampling complete - soil is saturated }		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB132	
BORING LOCATION: CAT605P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frantz	DATE STARTED: 10-06-21	DATE FINISHED: 10-06-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: Caloprobe	MEASURED DEPTH TO WATER: 14.6 ft bgs	DEPTH OF SATURATED MEDIA: 14.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
	Dark Topsoil - Brown sandy		-WURSB05565 (1030)
1	SAND - Brown, Fine to Coarse sw		-WURSB05566 (1050)
2			
3			-WURSB05567 (1055)
4	SAND - Light Brown, Fine to medium SP		
5			
6			-WURSB05568 (1100)
7			
8	SAND - Brown, Fine to Coarse, sw Lenses of Gravel		
9			
10			
11			-WURSB05569 (1105)
12			
13	V saturated in sleeve at 14.0 ft bgs R WLM reading at 14.6 ft bgs		
14			

PROJECT:

Former Wurtzsmith APB

Soil Boring ID: WURS3132

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason for end { - sampling complete - soil is saturated		

PROJECT: Former Wurtsmith AFB RI		Soil Boring ID: WURSB133	
BORING LOCATION: CAT665 P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frantz	DATE STARTED: 10-05-21	DATE FINISHED: 10-05-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: G Probe	MEASURED DEPTH TO WATER: 14.6 ft bgs	DEPTH OF SATURATED MEDIA: 14.8 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - sandy brown		sample bowl EB: WUR25167 (1331)
0 - 1	SAND - Brown, Fine to medium		- WUR 5570 (1333)
1			- WUR 5571 (1344)
2			- WUR 5572 (1349)
5			- WUR 5573 (1355)
6			- DUP (WUROS1007 1355)
8 - 14	SAND - light brown, fine to medium		- WUR 5574 (1401)
14	WCM Reading 14.6 ft bgs saturated in sleeve at 14.8 ft bgs		

PROJECT:

Former Wurtsmith AFB RI

Soil Boring ID: WURSB133

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason For End { -sampling complete {-soil is saturated		

PROJECT: Former Wurtsmith APB RI		Soil Boring ID: WUR53134	
BORING LOCATION: CAT605P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz	DATE STARTED: 10-05-21	DATE FINISHED: 10-05-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: No WLM reading due to collapse	DEPTH OF SATURATED MEDIA: 14.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
	Topsoil - sandy		-WUR05575 (1004)
1	SAND - Brown, fine to medium		-WUR05576 (1017)
2			
3			-WUR05577 (1021)
4			
5			
6			-WUR05578 (1024)
7			
8			* Hole collapsed at 8.0 ft (1035) No WLM reading due to collapse
9			
10			
11			-WUR05579 (1028)
12	SAND - Brown, fine to coarse		
13			
14	∇ saturated in sleeve		

PROJECT:

Soil Boring ID: WURS0134

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB 16ft bgs reason for end { -sampling complete (-soil is saturated)		

PROJECT: Former Wurtsmith AFB RI		Soil Boring ID: WUR42135	
BORING LOCATION: CAT605P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz	DATE STARTED: 10-05-21	DATE FINISHED: 10-05-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: WLM was not used due to hole collapse	DEPTH OF SATURATED MEDIA: 15.2 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
			on liner FB: WUR25168 (1440)
1	Topsoil - Sandy Brown		-WUR 05580 (1435)
1	SAND - Light brown, Fine to medium		-WUR 05581 (1500)
2			-WUR 05582 (1505)
3			-Dup (WUR 051008 (1515))
5			-WUR 05583 (1511)
6	SAND - Brown, F-C		
8	SAND - Light Brown, Fine to medium		
10			-WUR 05584 (1517)
11			
12			
13			
14			

PROJECT:

Former Wurtsmith AFB RI

Soil Boring ID: WURS3135

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	<p>☑ saturated in sleeve at 15.2 ft bgs</p> <hr/> <p>EOB at 16.0 ft bgs</p> <p>Reason for End { - sampling complete - soil is saturated</p>		

PROJECT: Former Wurtsmith AFB RI		Soil Boring ID: WURSB136	
BORING LOCATION: CAT 605P		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz	DATE STARTED: 10-05-21	DATE FINISHED: 10-05-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 15.1 ft bgs	DEPTH OF SATURATED MEDIA: 15.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: V. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
			moved 5 ft SE to avoid concrete slab
1	Topsoil - sandy		-WUR05585 (1205)
2	SAND - Brown, Fine to medium trace gravel		-WUR05586 (1237)
3			-WUR05587 (1241)
4			
5			
6			-WUR05588 (1245)
7			
8			
9			
10			
11			-WUR05589 (1252)
12			
13			
14			

□ saturated in sleeve

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
<p>16</p> <p>15</p> <p>14</p> <p>13</p> <p>12</p> <p>11</p> <p>10</p> <p>9</p> <p>8</p> <p>7</p> <p>6</p> <p>5</p> <p>4</p> <p>3</p> <p>2</p> <p>1</p>	<p>LOB at 16.0 ft bgs</p> <p>Reason for End { - sampling complete - soil is saturated</p>	<p>16.0 - 16.0</p> <p>15.0 - 15.0</p> <p>14.0 - 14.0</p> <p>13.0 - 13.0</p> <p>12.0 - 12.0</p> <p>11.0 - 11.0</p> <p>10.0 - 10.0</p> <p>9.0 - 9.0</p> <p>8.0 - 8.0</p> <p>7.0 - 7.0</p> <p>6.0 - 6.0</p> <p>5.0 - 5.0</p> <p>4.0 - 4.0</p> <p>3.0 - 3.0</p> <p>2.0 - 2.0</p> <p>1.0 - 1.0</p>	

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURS3170	
BORING LOCATION: FT002		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock water	DATE STARTED: 10-12-21	DATE FINISHED: 10-12-21	
DRILLING METHOD: Direct push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 9	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 13.8 ft bgs	DEPTH OF SATURATED MEDIA: 13.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
			EB on bowl: WUR25220 (0828)
1	Topsoil - Dark Brown, fine sandy, silty		WUR0261 - WUR02610 (0838)
1	SAND - Brown, fine to medium, with silt		- WUR02611 (0900)
2	SAND - Brown, fine to coarse, sp trace gravel		- WUR02611-MS (0900)
2			- WUR02611-SD (0900)
3			- WUR02612 (0907)
3			- WUR021008 (0908)
4			DUP
5			
6	SAND - Brown, fine to medium sp		- WUR02613 (0917)
7			
8			
9			
10			
11			- WUR02613 (0927)
12			
13	⊗ saturated in sleeve at 13.0 ft bgs		
14	SAND - Brown, fine to coarse with gravel		
14	SW SWEM meter reading at 13.8 ft bgs		

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURS2170

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason for end { -sampling complete {-soil is saturated		

PROJECT: Former Wyrtsmith AFB		Soil Boring ID: WUR53172	
BORING LOCATION: FT002		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock water	DATE STARTED: 10-12-21	DATE FINISHED: 10-12-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 8	
DRILLING EQUIPMENT: Caloprobe	MEASURED DEPTH TO WATER: Hole collapse = no reading	DEPTH OF SATURATED MEDIA: 12.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - Dark Brown, sandy silty		- WUR02620 (1212)
1	SAND - Brown, Fine to medium		- WUR02621 (1218)
2	SP		- WUR02621-MS (1218)
3			- WUR02621-SD (1218)
4			- WUR02622 (1226)
5			- WUR021009 (1226)
6			- WUR02623 (1232)
7			
8			
9			
10			
11			- WUR02624 (1238)
12	R saturated in sleeve at 12.0 ft bgs		
13	SAND - Brown, Fine to coarse		
14	SW trace gravel		

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURS3172

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason for End { - sampling complete - soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB173	
BORING LOCATION: FT062		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water	DATE STARTED: 10-12-21	DATE FINISHED: 10-12-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 12.0 ft bgs	TOTAL SAMPLES COLLECTED:	
DRILLING EQUIPMENT: Gpoprobe	MEASURED DEPTH TO WATER: 11.4 ft bgs	DEPTH OF SATURATED MEDIA: 11.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Starbough	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - Dark Brown, sandy, silty, clayey		- WUR02625 (1026)
1	SAND - Brown, fine to medium SP		- WUR02626 (1054)
2			- GGLE split: SB2110121054 WPS
3			- WUR02627 (1059)
4			
5			
6			- WUR02628 (1110)
7			- GGLE split: SB2110121110 WPS
8			
9			
10			
11	∇ saturated in sieve at 11.0 ft bgs ∇ WLM reading at 11.4 ft bgs		no sample WPS
12	SAND - Brown, fine to coarse, trace gravel GOB at 12.0 ft bgs		
13	Reason { - sampling complete for end { - soil is saturated		
14			

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURS3177	
BORING LOCATION: FTØØ2		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water	DATE STARTED: 10-12-21	DATE FINISHED: 10-12-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 14.3 ft bgs	DEPTH OF SATURATED MEDIA: 12.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - Dark Brown sandy silt		-WURØ2645 (1428)
1	SAND - Brown. Fine to coarse SP		-WURØ2646 (1446)
2			
3			-WURØ2647 (1451)
4			
5			
6			-WURØ2648 (1506)
7			
8	seams of Fine to medium		
9			
10			
11			-WURØ2649 (1506)
12	□ saturated in sleeve at 12.0 ft bgs		
13	SAND - Brown Fine to coarse sw with gravel		
14	□ w/cm reading of 14.3 ft bgs		

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WRSB177

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason } -sampling complete For End { -soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WUR53178	
BORING LOCATION: F1002		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water	DATE STARTED: 10-12-21	DATE FINISHED: 10-12-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 12.0 ft bgs	TOTAL SAMPLES COLLECTED: 6	
DRILLING EQUIPMENT: Caloprobe	MEASURED DEPTH TO WATER: 10.9 ft bgs	DEPTH OF SATURATED MEDIA: 10.5 ft bgs	
SAMPLING METHOD:		LOGGED BY: w. stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
			EB on sample spoon: WUR25222 (1540)
0-1	TOPSOIL - dark brown, clayey silty with sand		- WUR02650 (1548)
1-2	SAND - BROWN, fine to coarse, trace gravel SW trace silt		- WUR02651 (1607) - EGLE split: SB2110121607 WPS
2-3	SAND - BROWN, fine to coarse, SP trace gravel (WPS)		X
3-4			- WUR02652 (1614)
4-5	SAND - BROWN, fine to medium SP		
5-6			- WUR02653 (1626) - WUR021012 (1626) DUP
6-7			- EGLE split: SB2110121626 WPS
7-8			
8-9	SAND - BROWN, fine to coarse SW trace gravel		
9-10			
10-11	∅ saturation in sleeve at 10.5 ft bgs ∅ wcm reading at 10.9 ft bgs		X (WPS)
11-12			
12-13	EOB at 12.0 ft bgs Reason for End { - sampling complete { - soil is saturated		
13-14			

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WUR53180	
BORING LOCATION: FT002		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rock Water		DATE STARTED: 10-13-21	DATE FINISHED: 10-13-21
DRILLING METHOD: Direct Push		TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 8
DRILLING EQUIPMENT: Geoprobe		MEASURED DEPTH TO WATER: 12.8 ft bgs	DEPTH OF SATURATED MEDIA: 12.0 ft bgs
SAMPLING METHOD:		LOGGED BY: W. Stambagh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
	Topsoil - Brown, sandy, silty with clay		EB on Geoprobe liners: WUR25223 (081)
1	SAND - Brown, fine to coarse trace gravel		- WUR02660, PFD: WUR021013 (0823)
2	SW		- WUR02661 (0836)
			- WUR02661-MS (0836)
			- WUR02661-SD (0836)
3			- WUR02662 (0843)
4			
5			
6	SAND - Brown, fine to medium SP		- WUR02663 (0854)
7			
8			
9			
10			
11			
12	saturation in sleeve at 12.0 ft bgs		- WUR02664 (0901)
13	SAND - Brown, fine to coarse with lenses of gravel		
14	wcm reading at 12.8 ft bgs		

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURS3180

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason for End { sampling complete soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WUR5211		step-out
BORING LOCATION: CAT605P BOA		GROUND SURFACE ELEVATION AND DATUM:		
DRILLING CONTRACTOR: Fritz (Rock Water)		DATE STARTED: 10-07-21	DATE FINISHED: 10-07-21	
DRILLING METHOD: Direct Push		TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5	
DRILLING EQUIPMENT: Coneprobe		MEASURED DEPTH TO WATER: 15.3 ft bgs	DEPTH OF SATURATED MEDIA: 12.1 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh		

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
1	Topsoil - Dark Brown, sandy silty		- WUR08186-ST1 (1432)
1	SAND - Brown/Orange, Fine to medium		- WUR08187-ST1 (1445)
2	SAND - Light Brown, Fine to coarse		- EGLE split: SB2110071445 WPS
3			- WUR08188-ST1 (1453)
5	perched water at 5.5 ft bgs		
6	CLAY - Brown med. plasticity, cohesive, sandy, silty		- WUR08189-ST1 (1509)
7	seams of sand saturated		*clay sample
8	SAND - Brown, Fine to medium		
11			- WUR08190-ST1 (1515)
12	saturated in sleeve at 12.1 ft bgs		- EGLE split: SB2110071515 WPS

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURSB211

step-out

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	<p>WLM Reading at 15.3 ft bgs</p> <hr/> <p>EOB at 16.0 ft bgs</p> <p>Reason for End { -sampling complete - soil is saturated</p>		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB212		step-out
BORING LOCATION: CAT605P BOA		GROUND SURFACE ELEVATION AND DATUM:		
DRILLING CONTRACTOR: Frantz (Rockwater)		DATE STARTED: 10-07-21	DATE FINISHED: 10-07-21	
DRILLING METHOD: Direct Push		TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED: 9	
DRILLING EQUIPMENT: Geoprobe		MEASURED DEPTH TO WATER: 17.5 ft bgs	DEPTH OF SATURATED MEDIA: 16.4 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh		

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
1	TOPSOIL - Dark Brown, sandy silty		-WUR08187-ST1 - WUR08191-ST1 (1530)
1	SAND - Brown/Dark Brown, Fine to medium seam of black sand at 1.3ft to 1.8ft bgs		-WUR08182 -WUR08192-ST1 (1543)
2	SP		
3	SAND - Brown, Fine to medium		-WUR08193-ST1 (1549)
3	SP		-WUR08193-ST1-MS (1549)
4			-WUR08193-ST1-SD (1549)
5			
6	SAND - Light Brown, Fine		-WUR08194-ST1 (1553)
6	SP		
7			
8			
9	CLAY - Brown, sandy, med plasticity, cohesive		
10	SAND - Brown, Fine to medium		
11			-WUR08195-ST1 (1557)
11			-WUR081044-ST1 (1557)
12			
13			
14			-WUR08195-ST1-A (1605)

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURSB212 step-out

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	Soil is saturated at <u>WPS</u>	/ / / / /	
16.4	Soil is saturated at 16.4 ft bgs		
17	SAND-Brown, Fine to coarse		
17.5	WLM Reading at 17.5 ft bgs		
18			
19			
20			
20.0	EOB at 20.0 ft bgs		
	Reason } - sampling complete		
	for End { - soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB213 Step-out	
BORING LOCATION: CAT605P 30A		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz (Rock Water)	DATE STARTED: 10-07-21	DATE FINISHED: 10-07-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED: 6	
DRILLING EQUIPMENT: GProbe	MEASURED DEPTH TO WATER: 17.4 ft bgs	DEPTH OF SATURATED MEDIA: 16.7 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambough	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - Dark Brown sandy silty		-WUR08196-ST1 (1338)
1	SAND - Brown Fine to Coarse		-WUR08197-ST1 (1345)
2			
3			-WUR08198-ST1 (1349)
4			
5			
6			-WUR08198 ⁹ -ST1 (1352)
7			
8			
9	CLAY - Brown, moist		
10	SAND - Brown, Fine to medium increases clay		
11			-WUR08200-ST1 (1402)
12			
13			
14			-WUR08200-ST1-A (1415)
			-WUR08200-ST1-A

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WUR5B213 step-out

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16			
17	∇ saturated in sleeve at 16.7ft bgs		
18	∇ WLM Reading at 17.4ft bgs		
19			
20			

EOB at 20.0ft bgs

Reason for end { -sampling complete
 - soil is saturated

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURS B 219		step-out
BORING LOCATION: CAT605P BOA		GROUND SURFACE ELEVATION AND DATUM:		
DRILLING CONTRACTOR: Rockwater	DATE STARTED: 10-08-21	DATE FINISHED: 10-08-21		
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5		
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 15.0 ft bgs	DEPTH OF SATURATED MEDIA: 14.0 ft bgs		
SAMPLING METHOD:		LOGGED BY: W. Stambaugh		

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - Dark Brown sandy		- WUR08226-ST1 (1006)
1	SAND - Brown Fine to medium SP		- WUR08227-ST1 (1027)
2			
3			- WUR08228-ST1 (1031)
4	perched water at 4.5 ft bgs to 5.5 ft bgs		
5	SAND CLAY - BROWN saturated		
6			- WUR08229-ST1 (1048)
7			
8			
9			
10			
11			- WUR08230-ST1 (1059)
12			
13			
14	Soil is saturated in sleeve at 14.0 ft bgs		
	WLM Reading at 15.0 ft bgs		

PROJECT:		Soil Boring ID:	
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	<p>EOB at 16.0ft bgs</p> <p>Reason { -sampling complete for END (-soil is saturated</p>		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB220 step-out	
BORING LOCATION: CAT605P BOA		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz (Rock Water)		DATE STARTED: 10-08-21	DATE FINISHED: 10-08-21
DRILLING METHOD: Direct Push		TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5
DRILLING EQUIPMENT: GPO probe		MEASURED DEPTH TO WATER: 15.1 ft bgs	DEPTH OF SATURATED MEDIA: 15.0 ft bgs
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
1	Topsoil - Dark Brown, sandy		- WUR08231-STI (0825)
	SAND - Brown, Fine to medium, trace silt		- WUR08232-STI (0855)
2	SAND - Light Brown, Fine to coarse sp		- EGLE split: SB211080855 WPS
3			- WUR08233-STI (0907)
4			
5			
6			- WUR08234-STI (0914)
7			
8			
9	SAND - Brn, F-m sp		
10	SP spec of saturated clay at 9.0 ft bgs		
11			- WUR08235-STI (0936)
12			- EGLE split: SB211080936 WPS
13			
14			

soil is saturated at 15.0 ft bgs
WLM reading at 15.1 ft bgs

PROJECT:

Soil Boring ID:

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	COB at 16.0 ft by Reason for End { -sampling complete - soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURS3230		Step-out
BORING LOCATION: FT002		GROUND SURFACE ELEVATION AND DATUM:		
DRILLING CONTRACTOR: Frontz (Rock Water)	DATE STARTED: 10-07-21	DATE FINISHED: 10-07-21		
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5		
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 14.1 ft bgs	DEPTH OF SATURATED MEDIA: 13.0 ft bgs		
SAMPLING METHOD:		LOGGED BY: W. Stambaugh		

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
1	Topsoil - Dark Brown sandy with silt		- WUR03591-ST1 (1128)
1	SAND - Brown Fine to Coarse SW trace Gravel		- WUR03592-ST1 (1148)
2			- EGLE split: SB210071148WPS
3			- WUR03593-ST1 (1153)
4			
5			
6			- WUR03594-ST1 (1158)
7			
8	Light Brown Light Brown		WUR03595-ST1 (WPS)
9			
10			
11			- WUR03595-ST1 (1205)
11			- EGLE split: SB210071205WPS
12			
13	∅ saturation in sleeve at 13.0 ft bgs		
14	∅ WLM Reading at 14.1 ft bgs		

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURSB23Ø step-out

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.0 ft bgs Reason for end - sampling complete - soil is saturated		

PROJECT: Former Hurtsmith AFB		Soil Boring ID: WURSB231 (step-out)	
BORING LOCATION: FTΦΦ2		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz (Rock Water)	DATE STARTED: 10-07-21	DATE FINISHED: 10-07-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 16.0ft bgs	TOTAL SAMPLES COLLECTED: 9	
DRILLING EQUIPMENT: Caproprobe	MEASURED DEPTH TO WATER: 13.9ft bgs	DEPTH OF SATURATED MEDIA: 13.8ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
			EB on bowl: WUR 25323 (1Φ15)
1	Topsoil - Dark Brown Sandy	///	- WURΦ4656-ST1 (1Φ2Φ)
2	SAND - Brown Fine to coarse trace gravel sw	///	- WURΦ4657-ST1 (1Φ3Φ)
3		///	- WURΦ4658-ST1 (1Φ36)
4		///	- WURΦ4658-ST1-MS (1Φ36)
5		///	- WURΦ4658-ST1-SD (1Φ36)
6		///	- WURΦ4659-ST1 (1Φ41)
7		///	- WURΦ41Φ29 (1Φ41)
8	↓ Light Brown		
9			
10		///	- WURΦ456Φ-ST1 (1Φ44)
11		///	
12		///	
13	SAND - Brown, fine to coarse, w/ gravel		
14	saturation in sleeve at 13.8ft bgs WLM reading at 13.9ft bgs		

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WUR53231

(step-out)

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	EOB at 16.4 ft bgs Reason for End { -sampling complete - soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB 232	
BORING LOCATION: FTPBL Zone 5031		GROUND SURFACE ELEVATION AND DATUM: step-out	
DRILLING CONTRACTOR: Frontz	DATE STARTED: 10-06-21	DATE FINISHED: 10-06-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED: 7	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 17.0 ft bgs	DEPTH OF SATURATED MEDIA: 16.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0 - 1	Topsoil - Brown silty sandy roots		-WUR04661-ST1 (1330)
1 - 2	SAND - Brown, fine to coarse trace gravel SW		-WUR04662-ST1 (1342) EGLE split: SB2110061342WPS
2 - 3			-WUR04663-ST1 (1347)
3 - 4			
4 - 5			
5 - 6	SAND - Brown, fine to medium SP light		-WUR04664-ST1 (1351)
6 - 7			-Dup (WUR041030 1351)
7 - 8			
8 - 9			
9 - 10			
10 - 11			-WUR04665-ST1 (1356)
11 - 12			
12 - 13			
13 - 14			
14 - 20			-WUR04665-ST1-A (1405)

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURS12232 step-out

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16	SAND - Brown, F-C, lenses gravel X saturated in sleeve at 16.0 ft bgs	/ / /	-EGLE split: SB211φφ614φ5WPS
17	X WLM reading at 17.0 ft bgs		
18			
19			
20			
	EOB at 20.0 ft bgs		
	Reason for End { -sampling complete { -soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB233 step-out	
BORING LOCATION: FT002		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frontz	DRILLING METHOD: Direct Push	DATE STARTED: 10-06-21	DATE FINISHED: 10-06-21
DRILLING EQUIPMENT: Geoprobe	SAMPLING METHOD:	TOTAL DEPTH: 16.0 ft bgs	TOTAL SAMPLES COLLECTED: 5
		MEASURED DEPTH TO WATER: 15.4 ft bgs	DEPTH OF SATURATED MEDIA: 15.0 ft bgs
		LOGGED BY: W. Stambaugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
0	Topsoil - Brown sandy silty		-WUR04666-ST1 (1434)
1	SAND - F-C, Brown sw		-WUR04667-ST1 (1441)
2			
3			-WUR04668-ST1 (1445)
4	SAND - Brown, fine to medium SP		
5			
6			-WUR04669-ST1 (1448)
7			
8	SAND - Brown, fine to coarse sw fine gravel		
9			
10			
11			-WUR04670-ST1 (1452)
12	SAND - Brown, fine to coarse sw with gravel		
13			
14			
<p>Σ saturated in sleeve at 15.0 ft bgs</p>			

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURS2233 step-out

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes.
16	<p>WLM Raging at 15.4ft bgs</p> <hr/> <p>EOB at 16.0ft bgs</p> <p>Reason Σ-sampling complete for End Σ-soil is saturated</p>		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WUR53234 Step-Out	
BORING LOCATION: FT002		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Frantz	DATE STARTED: 10-06-21	DATE FINISHED: 10-06-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED: 8	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 18.0 ft bgs	DEPTH OF SATURATED MEDIA: 17.5 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambugh	

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	Notes
			soil boring location moved 3.0 ft E due to deep ditch
			SAMPLE IDs/Notes
			EB on bowl: WUR25322 (1533)
1	Topsoil - Brown silty sandy roots		- WUR04671-ST1 (1530) Dup: WUR041028 (1530)
1	SAND - Brown/Light Brown SP		- WUR04672-ST1 (1540)
2	Fine to medium lens of organic soil at 2.5ft		- WUR04672-ST1-MS (1540)
			- WUR04672-ST1-SD (1540)
			- EGLE split: SB2110061540 VPS
3			- WUR04673-ST1 (1545)
4	SAND - Light Brown, Fine to Coarse SW with Gravel		
6			- WUR04674-ST1 (1549)
8	SAND - Brown, Fine to medium SP		
11			- WUR04675-ST1 (1554)
14	SAND - Light Brown, Fine to medium SP		- WUR04675-ST1-A (1600)

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WUR 234 step-out

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16		/ / / / /	- EGLE split: SB211061600 WPS
17	▽ saturated in sleeve at 17.5 ft bgs		
18	▽ WLM Reading at 18.0 ft bgs		
19	SAND - Brown, fine to coarse sw trace gravel		
20	EOB at 20.0 ft bgs Reason for end { - sampling complete { - soil is saturated		


PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB235		step-out
BORING LOCATION: FT002		GROUND SURFACE ELEVATION AND DATUM:		
DRILLING CONTRACTOR: Frontz		DATE STARTED: 10-07-21	DATE FINISHED: 10-07-21	
DRILLING METHOD: Direct Push		TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED: 6	
DRILLING EQUIPMENT: Caproprobe		MEASURED DEPTH TO WATER: 19.4 ft bgs	DEPTH OF SATURATED MEDIA: not readable due to no recovery	
SAMPLING METHOD:		LOGGED BY: V. Stambaugh		

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
1	Tops oil - Brown sandy silty SAND - Brown Fine to Medium		- WUR04676-ST1 (0813)
2			- WUR04677-ST1 (0825)
3			- WUR04678-ST1 (0828)
4			
5	SAND - BROWN Fine to Coarse		
6			- WUR04679-ST1 (0832)
7			
8			
9			
10			
11			- WUR04680-ST1 (0836)
12	SAND - Brown Fine to medium		
13			
14			- WUR04680-ST1-A (0841)

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WUR93235 step-out

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16			
17			
18			
19			
20			

WLM reading at 19.4 ft bgs

EOB at 20.0 ft bgs

Reason for end {
- sampling complete
- soil is saturated

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB236		step-out
BORING LOCATION: FT002		GROUND SURFACE ELEVATION AND DATUM:		
DRILLING CONTRACTOR: Frontz (Rock Water)		DATE STARTED: 10-07-21	DATE FINISHED: 10-07-21	
DRILLING METHOD: Direct Push		TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED: 9	
DRILLING EQUIPMENT: Geoprobe		MEASURED DEPTH TO WATER: EAVE - in = no wlm reading	DEPTH OF SATURATED MEDIA: 19.0 ft bgs	
SAMPLING METHOD:		LOGGED BY: W. Stambaugh		

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes	
			- EB on sample spoon: WUR25321 (0900)	
1	Topsoil - Brown sandy silty Dark		- WUR04681-ST1 (0912)	
2	SAND - Brown fine to medium SP		- WUR04682-ST1 (0920)	
			- WUR04682-ST1-SD (0920)	
			- WUR04682-ST1-MS (0920)	
			- EGLE split: SB2110070920WPS	
3			- WUR04683-ST1 (0924)	
4			- WUR041027 (0924)	Dup
5	SAND - Brown fine to coarse SP			
6			- WUR04684-ST1 (0932)	
7				
8				
9	SAND - Light Brown fine to medium SP			
10				
11			- WUR04685-ST1 (0939)	
12				
13	SAND - Light Brown fine to coarse trace gravel SW			
14			- WUR04685-ST1-A (0947)	

PROJECT:

Former Wurtsmith AFB

Soil Boring ID: WURS13236 Step-out

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
16		/ / / / /	- EGLE split: S13211φφ7φ947wps
17			
18			
19	Σ saturated in sleeve at 19.φft bgs		
20	EOB at 20.φ ft bgs		
	Reason Σ - sampling complete		
	for end { - soil is saturated		

PROJECT: Former Wurtsmith AFB		Soil Boring ID: WURSB237 step-out	
BORING LOCATION: CAT605P BOA		GROUND SURFACE ELEVATION AND DATUM:	
DRILLING CONTRACTOR: Rockwater	DATE STARTED: 10-08-21	DATE FINISHED: 10-08-21	
DRILLING METHOD: Direct Push	TOTAL DEPTH: 20.0 ft bgs	TOTAL SAMPLES COLLECTED: 10	
DRILLING EQUIPMENT: Geoprobe	MEASURED DEPTH TO WATER: 17.2 ft bgs	DEPTH OF SATURATED MEDIA: 16.5 ft bgs	
SAMPLING METHOD:	LOGGED BY: Wes Stambaugh		

DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
			EB on Drillers Hand Auger: WUR25324 (1146)
1	Topsoil - Dark Brown, sandy clayey		- WUR08276-ST1 (1222)
2	SAND: Light Brown, Fine to medium, trace gravel		- WUR08277-ST1 (1319)
			- WUR08277-ST1-M5 (1318)
			- WUR08277-ST1-SD (1318)
			- EGLE split: SB2110081318 WPS
3			- WUR08278-ST1 (1323)
4			- WUR081047-ST1 (1323) Dup
5			
6			- WUR08279-ST1 (1330)
7			
8			
9	SAND - Brown fine to medium Lenses of silty sand		
10			
11			- WUR08280-ST1 (1335)
12	perched water at 12.0 ft bgs		
13	CLAY - Brown, med. plasticity cohesive sandy w/silt		
14	SAND - Light Brown, Fine to medium		- WUR08280-ST1-A (1344)

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No.: 60514613
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Photo No. 1	Date: 10/05/21	<p>6638-6718 F41, Oscoda, MI 48750, USA</p> <p>126°SE (T) ● 44.474491, -83.388953 ±7 m ▲ 155 m</p> 
Direction Photo Taken: Southeast		
Description: Boring #: WURVS004 (DRMO)		

Photo No. 2	Date: 10/05/21	<p>NW N NE</p> <p>300 330 0 30</p> <p>357°N (T) ● 44.44974, -83.379035 ±6 m ▲ 159 m</p> 
Direction Photo Taken: North		
Description: Boring #: WURSB134 (8 – 12 ft)		

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No.: 60514613
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Photo No. 3	Date: 10/06/21	
Direction Photo Taken: South		
Description: Boring #: WURSB128 Decon of Bowl		

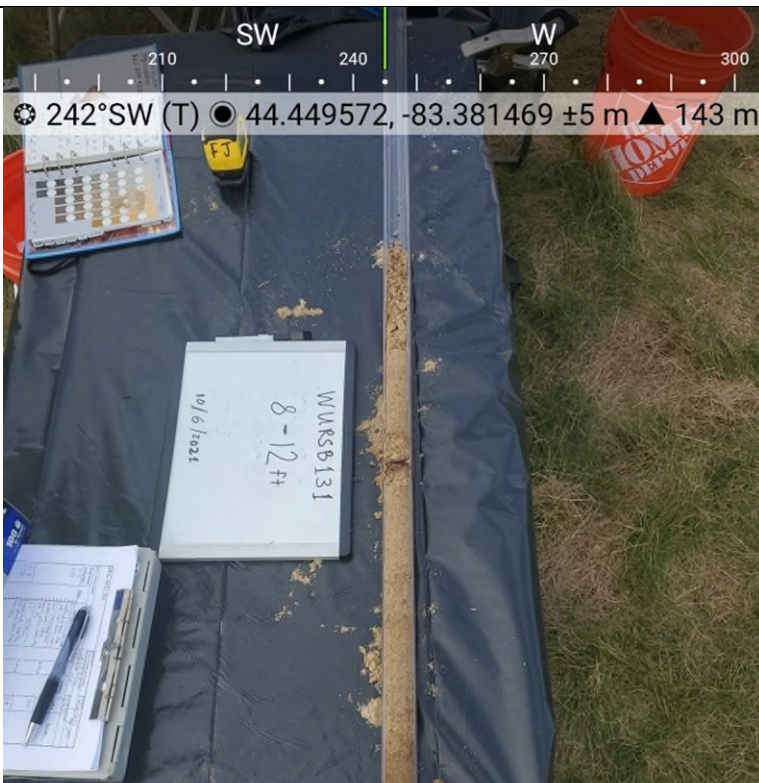
Photo No. 4	Date: 10/06/21	
Direction Photo Taken: Northeast		
Description: Boring #: WURSB128 WLM reading by Aerostar		

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 5	Date: 10/06/21
Direction Photo Taken: Northwest	
Description: Boring #: WURSB132 0.0 – 4.0 ft bgs	



Photo No. 6	Date: 10/06/21
Direction Photo Taken: Southwest	
Description: Boring #: WURSB131 8.0 – 12.0 ft bgs, saturated at 11.5 ft bgs	



Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 7	Date: 10/06/21
Direction Photo Taken: Southwest	
Description: Boring #: WURSB234 EB on bowl: WUR25322	



Photo No. 8	Date: 10/07/21
Direction Photo Taken: Southeast	
Description: Boring #: WURVS004 (DRMO) 20 – 30 ft	



Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 9	Date: 10/07/21	
Direction Photo Taken: Southeast		
Description: Boring #: WURVS004 (DRMO) 20 – 30 ft		

Photo No. 10	Date: 10/07/21	
Direction Photo Taken: North		
Description: Boring #: WURVS004 (DRMO) Broken sampler		


Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No.: 60514613
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Photo No.: 11	Date: 10/07/21	
Direction Photo Taken: Northwest		
Description: Boring #: WURVS004 (DRMO)		

Photo No.: 12	Date: 10/07/21	
Direction Photo Taken: North		
Description: Boring #: WURBS236 EB on spoon: WUR25321		

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 13	Date: 10/07/21	
Direction Photo Taken: Northeast		
Description: Boring #: WURSB231 2 – 4 ft sample consolidation		

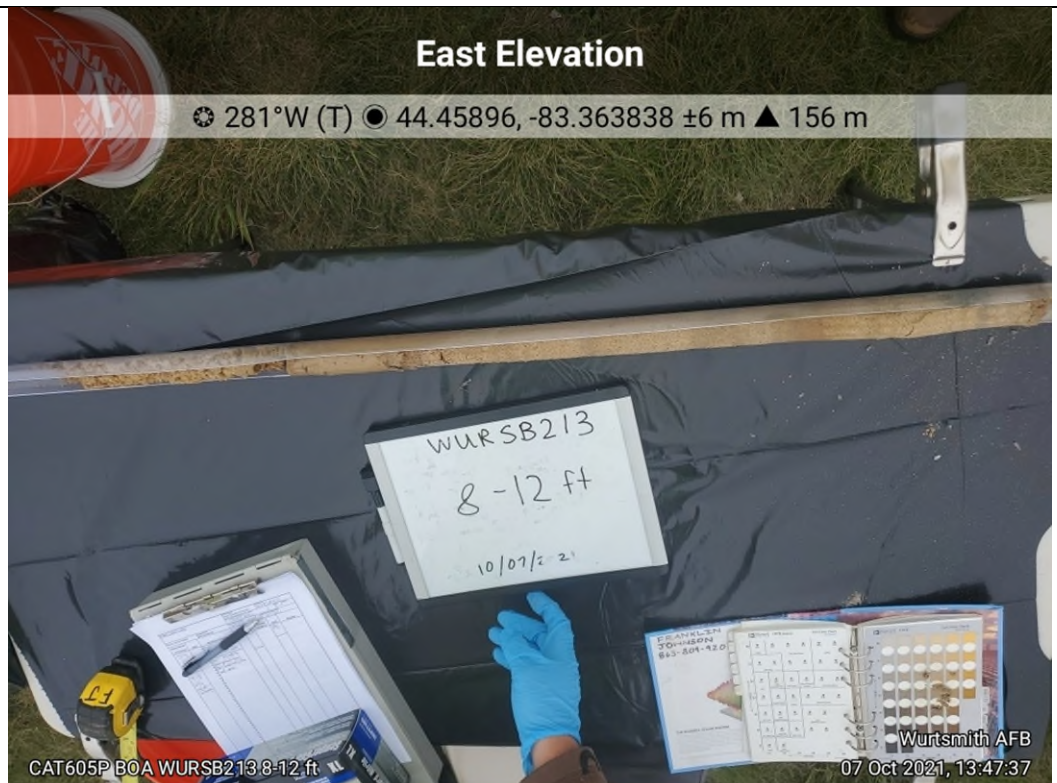
Photo No. 14	Date: 10/07/21	
Direction Photo Taken: North		
Description: Boring #: WURBS230 0.5 – 2.0 ft EGLE split		

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 15	Date: 10/07/21
Direction Photo Taken: East	
Description: Boring #: WURSB230 WLM reading by Frontz at 14.1 ft bgs	



Photo No. 16	Date: 10/07/21
Direction Photo Taken: East	
Description: Boring #: CAT605P BOA WURSB213 (8.0 – 12.0 ft)	



Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 17	Date: 10/07/21
Direction Photo Taken: Southeast	
Description: Boring #: CAT605P BOA WURSB211 (4 – 8 ft)	

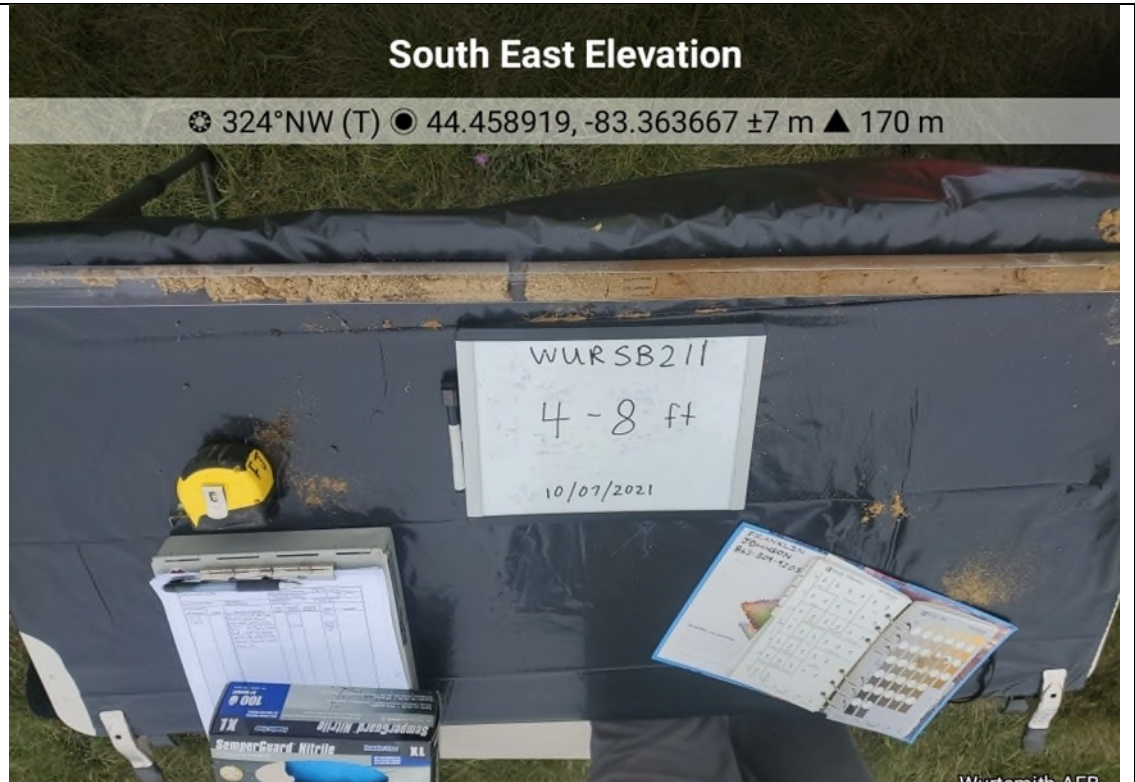
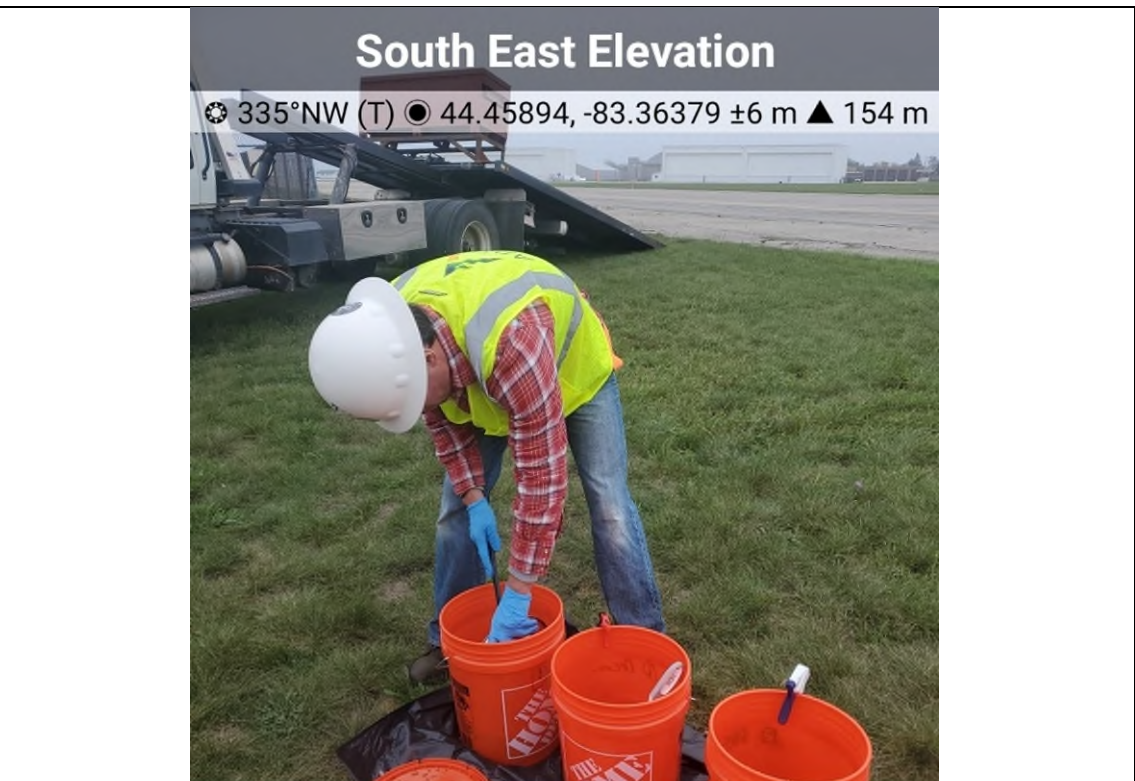


Photo No. 18	Date: 10/07/21
Direction Photo Taken: East	
Description: Boring #: CAT605P BOA WURSB212 consolidation bowl	



Project Name:

Wurtsmith RI EGLE Oversight

Site Location:

Oscoda, MI

Project No.

60514613

Photo No. 19	Date: 10/08/21
Direction Photo Taken: South	
Description: Boring #: WURVS004 (DRMO) 40.0 – 50.0 ft	



Photo No. 20	Date: 10/08/21
Direction Photo Taken: East	
Description: Boring #: WURVS004 (DRMO) 50 – 60 ft	



Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No.: 60514613
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Photo No. 21	Date: 10/08/21	
Direction Photo Taken: West		
Description: Boring #: CAT605P BOA WURSB219 (4 – 8 ft)		

Photo No. 22	Date: 10/08/21	
Direction Photo Taken: Southwest		
Description: Boring #: CAT605P BOA WURSB237 14 – 16 ft EGLE split		

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 23	Date: 10/09/21
Direction Photo Taken: West	
Description: Boring #: WURVS004 (DRMO) Abandonment	



Photo No. 24	Date: 10/09/21
Direction Photo Taken: Northeast	
Description: Boring #: WURVS004 (DRMO)	



Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 25	Date: 10/09/21	
Direction Photo Taken: Southwest		
Description: Boring #: WURVS001 (DRMO)		

Photo No. 26	Date: 10/09/21	
Direction Photo Taken: South		
Description: Boring #: WURVS001 (DRMO) 0.0 – 10.0 ft		

WURVS001 (DRMO) Former Wurtsmith AFB
09 Oct 2021, 13:55:05

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No.: 60514613
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Photo No. 27	Date: 10/09/21	
Direction Photo Taken: South		
Description: Boring #: WURVS001 (DRMO) 0.0 – 10.0 ft		

Photo No. 28	Date: 10/09/21	
Direction Photo Taken: South		
Description: Boring #: WURVS001 (DRMO) 0.0 – 10.0 ft		

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 29	Date: 10/09/21	
Direction Photo Taken: South		
Description: Boring #: WURVS001 (DRMO)		

Photo No. 30	Date: 10/09/21	
Direction Photo Taken: South		
Description: Boring #: WURVS001 (DRMO) 10.0 – 15.0 ft bgs		

WURVS001 (DRMO) (10.0-15.0 ft bgs)

Former Wurtsmith AFB
09 Oct 2021, 14:27:47

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 31	Date: 10/09/21	
Direction Photo Taken: South		
Description: Boring #: WURVS001 (DRMO) (15.0 – 20.0 ft bgs)		

Photo No. 32	Date: 10/09/21	
Direction Photo Taken: South		
Description: Boring #: WURVS001 (DRMO) 15.0 – 20.0 ft bgs		

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 33	Date: 10/09/21	
Direction Photo Taken: South		
Description: Boring #: WURVS001 (DRMO) (15.0 – 20.0 ft bgs)		

Photo No. 34	Date: 10/09/21	
Direction Photo Taken: Southwest		
Description: Boring #: CAT605P BOA WURSB068 (4 – 8 ft)		

CAT605P BOA WURSB068 4-8 ft

Wurtsmith AFB
09 Oct 2021, 09:07:06

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No.: 60514613
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Photo No. 35	Date: 10/09/21	
Direction Photo Taken: North		
Description: Location: Alert Aircraft Area Boring: WURSB026 (8 – 12 ft) perched water		

Photo No. 36	Date: 10/11/21	
Direction Photo Taken: North		
Description: Boring #: WURVS031 (BOA)		

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 37	Date: 10/11/21
Direction Photo Taken: South	
Description: Boring #: WURVS031 (BOA) VAS sampling setup for direct push	



Photo No. 38	Date: 10/11/21
Direction Photo Taken: Southeast	
Description: Boring #: WURVS001 (40.0 – 50.0 ft soil sample)	



Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 39	Date: 10/12/21	
Direction Photo Taken: North		
Description: Boring #: WURSB173 (0.5 – 2.0 ft) EGLE split sample SB2110121054WPS		

Photo No. 40	Date: 10/12/21	
Direction Photo Taken: Northeast		
Description: Boring #: WURSB173 sample bowl decontamination.		

Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 41	Date: 10/12/21
Direction Photo Taken: Southwest	
Description: Boring #: WURSB175 (0.0 – 4.0 ft) soil sample	



Photo No. 42	Date: 10/12/21
Direction Photo Taken: North	
Description: Boring #: WURSB177 WLM reading by Rock Water @ 14.3 ft bgs	



Project Name: Wurtsmith RI EGLE Oversight	Site Location: Oscoda, MI	Project No. 60514613
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Photo No. 43	Date: 10/12/21
Direction Photo Taken: Northwest	
Description: Boring #: WURSB178 EB on sample spoon: WUR25222	



Photo No. 44	Date: 10/13/21
Direction Photo Taken: Northwest	
Description: Boring #: CAT605P WURSB125 sample bowl decontamination.	

