Site Name:	= 1/ d :11 ACZ
Date: 12-03-2	Wurdsmith AFB
Project Number: 64	0514613
Field Staff: Josh	W
Time	Observation/Note
07:30	AECOM onsite at Aerostar field office + Daily tailgate
07:45	Mobilization to 100A WURVSDZ7
Φ7:55	Cascade set up rig and Aerostar set up equipment,
	ALCOM in vehicle sorting and filling out paperwork for the
n ci . he	day direct line of sight maintained on all field employees
Φ8:05	Cascade began tripping rods out on WURVSDZ7 For
101104	decon
08:09	Aerospar in their vehicles direct line of sight on drillers
1 6/11	maintaired
Φ8:17	Cascade began drilling on WURVS \$27
	Cascade released the screen on WURUSDZT, Aerostar
ha: a C	did not check for Water down rods prior, Screen 68-715+
PS:35	Aerostar began perisholic forging on WURUSDZZ PURGE
Φ8:45	1 (a) 13 800 min
48.43	AE COM in vehicle for check in with Jeremiah, Aerostav
ha:hl	also in vehicle
φq: φ1	Acrostar measured hibidity as 561 NTUS
09.02	Aerostar measured turbidity as 668 NTVs, hooked
Φ9:Φ8	up flow cell
09:10	Aerostar measured turbidity as 697 NTUS
Φ9:15	Aerostar measured turbidity as 682 NTVs
4/11-	Cascade began tripping rods out for dean and to
b9:27	Chip in AECOM offsile
91.01	,,, vij)iie

Site Name: Can D	2 . 1 . de . : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Date: 12-03-2	- Wurtsmith APB
Project Number: 605	
Field Staff: Vls 5	tasharah
	30( ** ** O(   N   1 ) **
Time	Observation/Note
Ø73 Ø	AGOOM arrive at perostar Pield Office, taily tailgated
Ø745	safety meeting Update from Noel on today's agenda, Rockwater will
	not be running soil or VAS, cascate will have boil rigs
Ø75¢	AECOM MOD to WYRUSDIQ to provide oversite for
	VAS sampling
<b>\$755</b>	Cascade begins pushing to 70,0 ff bgs
0815	Cascade uses spagnetti rod to open the screen Aerostar
D930	Aerostar collects 70.0ft bas VAS sample and begins
	demob of MURUSO19
0935	AECOn off site and mob back to Grand Rapids office
	OF.
	Ro
	Ponx
	9-0,
	132)

WENTER

Site Name: Former	- Wordsmith AFB
Date: 12-02-21	1001 (31 (41 / 1 / 1 )
Project Number:	0514613
Field Staff: Josh	W. AND
Time	Observation/Note
Ф7:3Ф	AECOM onsite at Aeroslar field office
Φ7:5Φ	Mobilization to BOA WURVSO3Z and WURVSO34 teams
	will push down to 78 st man attempt to hit
	clay and see if there is water yielded by the clay
	layer
Φ7:52	Noel informed me there has not been word yet on
	Whether they are spiking Heir Samples before centri-
	fuging xet will let me know when they hear back
Φ8:Φ5	Both teams setting up rigs and field equipment
Φ8:15	Cascade began direct-push on HURVS\$32
Φ8:26	Cascade unlocked Screen on WURVSD3Z Aerostar did
	not check for water down rods prior
Φ8:33	Aerostar Legan peristalliz puging on WURUSB3Z
Ø8:41	17 H bgs did not yield water on works b37 pulled
Ma₁C1	Uf 2 \$1
Φ851	Pump did not yield water fulled up to 70-73 ft
\$9:10	bgs and began fumping again
69:17	Cascade pulled rads up another foot on WRUJ032
09:18	WURVED34 team 15 getting water at 73 ft bgs
09:28	Cascade pulled rods up another foot on LIURUS 0732
\$9:48	Cas cade pulled rods up another food on WURUS 032 67-76
10:14	Aeroslar used WLM to tag Water level at 22 St bgs
10-17	Cascade began tripping rods out on WVRUSO32
	For decon, could not get water 67-70 \$4 695.
	Screen was covered in clayer sediment after being fulled
10:20	Both UCRISO3Z and WCRUS 034 teams prep fol
	mobilization
10:28	Aerostal received word to try again on wurus 032

Site Name: Former	Wurtsmith AFB
Date: 12 - 02 - 2	
Project Number: 60	\$514613
Field Staff: Josh	$\omega$ .
Time	Observation/Note
10:30	AECOM in rehide While Cascade continues decon and
	prefs to push down Aewster also in vehicle maintained direct
	lines of sight on rig
10:43	Cascade began drilling on WCRV303Z
11:02	Aerostar began peristallic purging an WUAVJO37 70-
11:15	AECOM in uthicle for Phone call, cascade and
	Aerostar Setting up on WVRUS \$27
11:25	Cascade began drilling on WURUS \$27, Screen 16-19 ft box
11:32	Cascade used WLM to tag water level at 182 Ft bg 18.
11:34	Cascade will push I'm Aerostar will alto mod to promo
11:39	Aerostar began peristallic purging on wurvs 027, Sporadic
	flow derostar decided to have them push down
	to 21 ft bgs and attempt again, AECOM in vehicle
	warming up during push, direct line of sight maintained
11:52	Acrostar tagged water level oring WCM at 18.2 57 bgs
1:56	Aerostar began peristallic purging on works \$27
12:11	Aerostar measured turbidity as 213 NTVS, hooked up Flow
	cell
12:16	Aeroshur measured turbidity as 130 NTUS
12:20	Acrostar mensured turbidity as 84.4 NTV's
12:25	Cascade began tripping rads out for decon, AECOM
3	in vehicle Warming up as well as Agrasien
12:28	Drillers began drilling on WURVSDZY down to 31 ft bas
12:38	Acrosta 1 began perishellic pugging on WURKSD27
12:42	Aerostar measured purge rate as TOD min
12:45	Aerostar AECOM, and Cascade in vehicles while poraina
12:53	Herostar measured turbidity as over 1100 NTV3
13:11	Aerostar me asured turbidity as 772 NTV's

Site Name: Trans	Wordsmith AFB
Date: 12-02-21	MUTASMITA / IFI)
Project Number: 64	5/46/3
Field Staff: Josh	~J.
Time	Observation/Note
13:15	Aerositar measured furbidity as 609 NTU's
13:28	Cascade began drilling down to 41 ft bgs AFCOM in vehicle to warm up white preparing sampling Gent labels
	vehicle to warm up white preparing sampling and labels
13:35	Lascade unlacked Scieen on Wukisazz Account
	did not check for Water down rods prior
13.40	Aerostar began peristallic purging on WURVSDZZ,
	+10W rate at 750 min
13:59	Aerostar measured turbidity as 766 NTU's hooked up
	HOW CEll
14:05	Acrostar measured durbidity as 809 NTUS
14:06	Aerostar measons terbidily as 775 NTUS
14:15	AECOM in vehicle for phone Call with Lies (AECOM), drillers
	tripping out rods for decon
14:19	Cascade began direct-push on WURVSDZZ
14:32	Aerostar began peristallic puging on works 027 48-51 ft by
	flow rate is 700 min
14:35	Aerastar AECOM, and Cascade in vehicles while purging,
	direct line of Sight maintained
14:50	Aerostar measured turbidity as 513 NTUS, hooked up
	flow cell
14:56	Aerostar measured turbidity as 599 NTU's
15:05	Cascade began tripping rods out on WURUSD27 AFCOM
	in vehicle to warm up while filling out sample labore
15:18	Aerostar took equipment blank on screen
15:20	Cascade began drilling on WURVSAZT
15:35	Aerostar began peristallic parging on WURVS 027
15:4/	Aerostar measured purge rate as 500 min
16:12	Cascade began packing up
	Aerustar measured dubidity as over 1100 NTU'S

Site Name: Face of	11.1 11.150
Site Name: Former Date: [2-02-2]	Wilsmith AT13
Project Number: 609	74613
Field Staff: Josh W.	
Time	Observation/Note
16:30	Aerostar measured terbidity as 1080, hacked up
	flow cell
16:36	Aerostar measured turbidity as over 1100 NTVs  Aerostar measured turbidity as 870 NTVs
JU17. 16:45	Aerostar measured durbidity as 870 NTUS
16:50	Accordant packing up sampling exvirment
16:55	AECOM oftsite
/	
/	
<u>/</u>	

Site Name: FG5 2001	- Wurtsmith AFB
Date: 12-02-21	
Project Number: 685	514613
Field Staff: Wes Sto	Imbaugh
Time	Observation/Note
Q73Φ	AECOM on site at Aerostar Field Office, daily tailgate/safety
<b>\$805</b>	Aerostar and Rockwater mob to Alert Aircraft Area to
2000	begin direct push on wursbyzy
0810	Rockwater warning up Geoprobe
Ø8U5	Acrostar and Rockvater begin direct push on wurstp24
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
0820	Bathroom break
0910	Acrostar and Rock Water begin direct push on WURSCADZY
0935	Rockwater chips in bentonite and demobs WURSBOZY mot
	to WURSB025
0945	Aerostar and Rockwater begin direct push on MURSBD25
1005	ROCKWOTER slips in bestorite and demobs WURSBQ25,
pa Though	mob to wurdizo28
	Aprostar and Rockwater begin direct push on wurst 128
1100	ROCKWater chips in best onte and demoss runsud28,
	mob to NURSBIGH, Wes (Alrostar) on site for consult,
man man	Aerostar will take extra sample from 8.0-10.0ff bgs
	directly above perched day layer)
1105	Rockuster bothroon break
1130	ROCK voter return from bothroom break, Alrostar and
	RockWater begin direct push on WURSIZIB4
100	ROCKWoter chips in bestorte and demobs wursibly, not
1.04	to wursb165 Lunch Break
1230	Return From Lunch relak, Aerostar and Rockwater begin
to the	direct pust on JURSB165
1310	Rockwater chips in bestonte and denobs NURSBIGS,
1001	nobto MURSBOB3
133\$	Aerostar and Rockwater begin direct push on wursted

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Site Name: Former Justsmith AFB  Date: 12-02-21  Project Number: 60514613  Field Staff: Ve3 Stambaugh.  Time Observation/Note  1340 Rock Toll Concountered refusal from CPD  1465 Rock Ter chips in bentonith and Jenobs wursublis not back  to Aerostar Cield Office  1410 AECOM mob to MURVSON to other Uts sampling molly.  (Aerostar) has pushed to 40,0-50,0 +1 bas begin purging  50,0+1 bas Qubbe to 40,0-50,0 +1 bas begin purging  1520 Cascade begins pushing down to 60,0+1 bas  1540 Aerostar takes WAs sample from 57.0-60,0+1 bas  begin packing up for the day, pushing to 70.0+1 bas  Vonorrow  1650 Aecom off site
Project Number: 60514613  Field Staff: VC3 Stambaugh  Time Observation/Note  1240 Rock In Crountered refusal From CP3  1405 Rock Interchips in bentoits and Jerobs wursus 13 not back  to Aprostar Ciplo Office  1410 AECOM mob to WURVSD19 to other VAS campling, molly.  (Aerostar) has pushed to 40.0-50.0 pt bgs begin purging  50.0 ft bgs Q 1406  1520 Cascade begins pushing down to 60.0 ft bgs  1540 Aerostar begins purging at 60.0 ft bgs  1646 Aerostar takes VAS sample from 57.0-60.0 ft bgs  begin packing up for the day, pushing to 70.0 ft bgs
Time Observation/Note  1340 Rock Vall Concountered refusal from CPD  1465 Rock Valer chips in bentonita and Jenobs wurscapts not back  to Aprostar Cield Office  1410 AECOM mob to WURVSONG to observe VAS sampling, molly.  (Aerostar) has pushed to 40.0-50.0 pt bas begin purging  50.0 ft bas a 1406  1520 Cascade begins purging at 60.0 ft bas  1540 Aerostar begins purging at 60.0 ft bas  1646 Aerostar takes VAS sample from 57.0-60 off bas  begin packing up for the day, pushing to 70.0 ft bas
Time Observation/Note  1340 Rock of Crountered refusal from CP3  1465 Rock of Crountered refusal from CP3  1465 Rock of Chips in benton't and Jenobs wurstables not back  to Aprostar Eigld Office  1410 AECOM mob to WURVSOLIA to other VAS sampling molly.  (Aerostar) has pushed to 40.0-50.0 At bas begin purging  50.0 At bas a 1406  1520 Cascade begins pushing down to 60.0 At bas  1540 Aerostar begins purging at 60.0 At bas  1646 Aerostar takes VAS sample from 57.0-60.0 At bas  begin packing up for the day, pushing to 70.0 At bas  begin packing up for the day, pushing to 70.0 At bas
1340 Rock toter encountered refusal from CPD  1465 Rock ter chips in bentonte and Jenobs wurstables not back  to Aerostar Field Office  1410 AECOM mob to MURVSONG to other VAS sampling, molly.  (Aerostar) has pushed to 40.0-50.0 At bgs begin purging  50.0 At bgs @ 1466  1520 Cascade begins pushing down to 60.0 At bgs  1540 Aerostar begins purging at 60.0 At bgs  1646 Aerostar takes VAS sample from 57.0-60.0 At bgs  begin packing up for the day, pushing to 70.0 At bgs
1340 Rock toter encountered refusal from CPD  1465 Rock ter chips in bentonte and Jenobs wurstables not back  to Aerostar Field Office  1410 AECOM mob to MURVSONG to other VAS sampling, molly.  (Aerostar) has pushed to 40.0-50.0 At bgs begin purging  50.0 At bgs @ 1466  1520 Cascade begins pushing down to 60.0 At bgs  1540 Aerostar begins purging at 60.0 At bgs  1646 Aerostar takes VAS sample from 57.0-60.0 At bgs  begin packing up for the day, pushing to 70.0 At bgs
1405 ROCKNATER Chips in bentonity and Jerrobs wurstables, not back to Aerostar Cield Office  1410 AECOM mob to WURVSONG to observe VAS sampling, molly.  (Aerostar) has pushed to 40.0-50.0 Aby bas begin purging  50.0 Aby bas @ 1406  1520 Cascade begins pushing down to 60.0 Aby bas  1540 Aerostar begins purging at 60.0 Aby bas  1646 Aerostar takes was sample from 57.0-60.0 Aby bas  Begin packing up for the day, pushing to 70.0 Abys  begin packing up for the day, pushing to 70.0 Abys
He Aprostar Cield Office  1410 AECOM mob to WURVSOLD to otherve VAS sampling, molly.  (Aerostar) has pushed to 40.0-50.0 At bys begin purying  50.0 At bys @ 1406  1520 Cascade begins pushing down to 60.0 At bys  1540 Aerostar begins purging at 60.0 At bys  1646 Aerostar takes VAS sample from 57.0-60.0 At bys  Begin packing up for the day, pushing to 70.0 At bys  tomorrow
1410 AECOM mob to WURVSDIQ to observe VAS sampling, molly.  (Aerostar) has pushed to 40.0-50.0 At bgs begin purging  50.0 At bgs @ 1406  1520 Cascade begins pushing down to 60.0 At bgs  1540 Aerostar begins purging at 60.0 At bgs  1646 Aerostar takes vas sample from 57.0-60.0 Abgs  begin packing up for the day, pushing to 70.0 Abgs  tomorrow
1410 AECOM mob to WURVSDIQ to observe VAS sampling, molly.  (Aerostar) has pushed to 40.0-50.0 At bgs begin purging  50.0 At bgs @ 1406  1520 Cascade begins pushing down to 60.0 At bgs  1540 Aerostar begins purging at 60.0 At bgs  1646 Aerostar takes vas sample from 57.0-60.0 Abgs  begin packing up for the day, pushing to 70.0 Abgs  tomorrow
1520 Cascade begins pushing down to 60.0ft bgs 1540 Aerostor begins purging at 60.0ft bgs 1646 Aerostar takes vas sample from 57.0-60.0ft bgs begin packing up for the day, pushing to 70.0ft bgs tomorrow
1520 Cascade begins pushing down to 60.0ft bgs 1540 Aerostor begins purging at 60.0ft bgs 1646 Aerostar takes vas sample from 57.0-60.0ft bgs begin packing up for the day, pushing to 70.0ft bgs tomorrow
1520 Cascade begins pushing down to 60.0ft bgs 1540 Aerostor begins purging at 60.0ft bgs 1646 Aerostar takes vas sample from 57.0-60.0ft bgs begin packing up for the day, pushing to 70.0ft bgs tomorrow
1540 Aerostor begins purging at 60.0ft bgs 1646 Aerostar takes vas sample from 57.0-60.0ft bgs begin packing up for the day, pushing to 70.0ft bgs tomorrow
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Site Name: Faces	r Wurtsmith AFB
Date: 12-0121	AUT FOMIN MED
Project Number:	05/46/3
Field Staff: Josh	16.
Time	Observation/Note
P7:05	AECOM onsite at Aerostar field office
\$7:30	checked in with Noel Noel told us which boring
	IDS are being used to correlate death of clay to He
	UAS borings completed 11-30-21, noted on respective
	VAS logs
D7:48	Aerostar, AECOM, and cascade mobilized to NURUSD32
	and WURVS \$34, AECOM Warming up in vehicles While Setting up
D8:10	Cascade began hand augering on WVRVSD3Z
Φ8:2Φ	Cascade is warming up rig, informed by Aerostal that
	WURVSD19 from 11-30-21 will be completed at a later
	date as Aerostar had to book airport escort for today
φ8:27	Cascade began drilling on WURVSP32, pushed down to
	20 ft has then pulled rads up so screen is 14-17 ft
	bys
Ф8:41	Aerostar began peristallic Purging on WURVSA32, flow
	rate is 900 min
D8:48	Accostar hooked up flow cell on wurus b32
\$8:55	Aeroslar measured turbidity as 244 NTV;
Φ8:53	Aerostar measured Lurbidity as 42 NTU's
08:55	Aerostar measured terbidity as 34.3 NTUS
Ф9:ФФ	Cascade began tripping sods out on Wirus 032 For decon
Φ9:13	Aerostar began peristritic purging on wurvs 037 screen
	29-21 1 691
Φ9:22	Acrosfor measured turbidity as 1050 NTUS flow rate
	is 850 min
\$9:29	Aerostor measured turbidity as 820 NTUS
\$9:38	Acrostar measured turbidity as 631 NTV5, Locked up
	flow cell
09:49	Aerostar me asured turbidity as 515 NTUS
	7 9 9 7 7 7 9

Site Name:	LI THE AFE
Date: 12-01-2	Worksmith AFB
Project Number: 60	
Field Staff: Jash L	
Time	Observation/Note
\$9:51	Aerostar measured turbidity as 419 NTUS
10:00	Cascade began tripping out rods for decon, Aerostal
	and AECOM in vehicles warming up, direct lines
	of sight maintained
10:04	Cascade began drilling on WURKS \$37
10:08	Cascade released screen on wirkiso32, Acrastar did
	not check for Water down sods prior
10:14	Aerostar began peristallic purging on WURUSD32, 34-37
	At bas slow rate is 800 min
10:35	Aerostar measured turbidity as 861 NTVS
14:49	Aerostar booked up flow cell
]\$:51	Acrostor measured turbidity as 921 NTU's
10:52	Acrostal measured turbidity as 879 NTVs
io:55	AECOM in which for Work Phone Call
11:03	Cascade began drilling on WVRVS \$37
11:09	Cascade released screen 44-47 ft 6.95
11:20	Jeremiah called for chech-in AECOM in vehide
1/:47	Aerostar measured turbidity as IDDNTUE
12:06	Aerostar measured durbidity as 950 NTUS
12:11	Acrostor measured terbidity as 715 NTV's
12:17	Cascade began inpping rads out on 1(1,01/503)
12:19	AECOM and Aeroslar in vehicles, direct line of sight on
	riq
12:28	Cascade began drilling down to ST ST bas on
	WVR V5 \$32
12:42	Aerostor began peristaltic Arging on WURVSD32, AECOM
	and Aprostar in vehicles warming up while surging direct
	lines of sight maintained on rig
12:47	Aerostar measured hibidity over 1100 NTUS

Site Name: 5	
Date: 17 11 1	Wurdsmith AFB
Date: 2-01-7 Project Number: 60	haur in
Field Staff: Josh	1
Josh	W -
Time	Observation/Note
13:00	Aerostar measured Lichidity as 846 NTUS on WURUSAR
13:09	Acrostar measured hubidity as 737 NTUS AFCOM
	and Aerostar and Cascade in vehicles while Pulging direct
12.20	lines of sight maintained on rig
13:38	Aerastar measured turbidity as over 1100 NTU'S
14:02	Aeroslar measured furbidity as 931 NTU's
14.06	Acrostar measured Libidity as 280 NTUS
14.08	Aeroshr measured terbidity as 763 NTVs
14:17	Cascad began tripping rods out on Lurus 032 for decon
14:26	Cascade began drilling on WURVSD32
14:40	Aerostar began peristallie purging on 1/ URVS 1937 CU-
	67 ft 693
15:58	Acrosfal measured Lurbidity as SH2 NTU'S
16:20	Both rigs Packing up for the day
16:35	AFCOM OSSSILE
A	

Site Name: Forme	r Vurtsmith AFB
Date: 12-01-21	
Project Number: (\$5	14613
Field Staff: Wes 5	tanbaugh
Time	Observation/Note
85 107310	ACCOM arrive at Alrostar Field Office idaily tailgate/sartly reeting
6745	Conversation with Noel about revisiting soil borings in the
	Alert Aircraft Area; revisiting IN different coil borings
	to get degoer samples, the DTW that was originally
	to get deeper samples, the DTW that was originally tagged was perched water; Rockwater will push down 2.044 offset from original bodin Acrostar and Rockwater on hold for soil borings to wait for
\$75¢	Acrostar and Rock voter on hold for soll borings to wait for
*	new alterator on Geoprobe; AECOM mob to Lotel to work
	or photolog while or hold
0945	Accom mos back to Aerostar Field office; Aerostar
1	and Rockwater mob to Alert Aircraft Area to run
	soil borings, all holes planned to run to 20,0ft bgs
1025	Herostar and ROCKWOTER begin direct push on warsburger
1045	Rockwater chips in bentonite and demobs wurks \$22,006
	to wurszoró
1100	Alrostar and Rockwater begin direct push on wurstop
1130	ROCKWART Chips in bentonte and demobs wurschop, mobto
	WURGED19; phone call check-in with Jeremiah (in car)
1150	Alrostar and Rock vater regin direct push on runsially
1155	Lunch Break; Noel on site at wurszibig
1200	Return from Lunch Break; ROCKWater temobs wursopia.
	mob to WURSBOIS
1240	ROCKWater and Aerostar Legin direct push on wurston8
1315	ROCKWATER Chips in bentonte and denotes WYRSISDIB, not to
	WURSBOTT; bothroom break
1335	Return from bothroom break
1340	Agrostar and Rockwater begin direct push on wurscoll
1405	Rockwater chips in bentante and demobs wursed mob
N. fam.	to wurszolb
1436	Alrostar and Rockwater begin direct push on wursklip

Wash

Site Name: Forner	Wurtsmith AFB
Project Number: 6々ゔ	14613
Field Staff: マピタ ら	tanbaygh
Time	Observation/Note
1465	Rockwater chips in bestorte and demobs wyrsisplb; mobto
	1WUR42012
1505	Acrostar and Rock water begin direct ough an wurstroll?
1530	Porkwater chia is Lestante and lessons may t
13.4	Aerostar and Rockwater begin direct push on wurszolz Rockwater chips in bentonte and demobs wurszolz, mobile wurszolz
1545	And De la laborate in the land to the land
	HELDSTAL WG KOCK WELL PEDIN GILLET DAN ON WAKSED 12
16 05	Aerostar and Rock Moter begin direct push on MURSEQ23 Rock Voter chips in bentonite and tenobs WURSEQ23 mob back to Aerostar field office; AECOM offsite
=	back to AlrosJar field Office, AGCON offsite
	V) &
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No Page 2 of 2

Site Name: 5-000	c Worksmith AFB
Date: 1/-30-21	1 MOLES WILL 147 12
Project Number: 60	514613
Field Staff: Josh	id alter
Time	Observation/Note
Ф9:34	AECOM onsite at WURVSDZD, Aerostar just Pushed
	down and began perishallic purging on interval 18
	If has
P4:4D	Have very low flow Sent cascade to gob
	another peri-pump (Ja) movier ster tubing
Φ9:58	Acrosiur realtached masterflex and began pumping again
	at 700 min
10:02	Aerostal measured furbidity at 44.3 NTUS
iφ: Φ5	Aeroshar booked of flow cell and began program
10:09	Meros har measured for brothy as 13.8 NTUS Acroslar
	mentioned the 45i readings don't need to be stable just
	need to record data twice
10:12	Alrester measured turbidity as 12.4 NTUS proper
	for Sample
10:15	Cascade began tripping rods out for Jecon
10:25	AECOM in vehicle for Call with wes (AECOM)
10:30	AECOM out of ughicle Aerostar and cascade
	futhing tubing down WURVSDZD
10:35	Aerostar began peristallic purging on WURUSOZO,
	did not check for water down And prior to
	releasing the screen
10:37	Aeroslar measured purgerate as EDD min
10:42	Acostal measured turbidity as over 1100 NTVS
10:59	Aeros for meas wed furbidity as 886 NTV5 hasted
	UP HOW CELL
11:06	Acrosiac measures turbidity as C7A NTUS
(1: P8	Acrosia measured turbidity as 545 NTUS
11:13	AECOM in rehicle to warm up while Rilling out paper
	work, direct-line of sight on field crew maintained
	,

Site Name: From	Wurtsmith AFB
Date: 11-30-21	04 0.13 144/14 /131/
Project Number: 60	514613
Field Staff: Josh L	J.
Time	Observation/Note
11:15	Cascade began tripping rods outon WURUSD20 for
	decon
11:23	Cascade began drilling on WVRVSDZ#
1/:30	Cascade released Screen, Aerostardid not chedr for Watel
	down the rods prior
11:38	
11:47	Acrostar began peristaltic pugging on the 3rd interval Acrostar measured flow rate as 600 min
11:53	Acrostar measured turbidity as 613 NTUS
11:54	Aerostar mensured terbidity as 594 NTUS and
	hocked of Flow cell
12:02	Aerostar measured turbidity as 710 NTUS
12:15	Aerostor measured turbidity over 1100 NTV'S Noel
	informed me that he has received permission from
	the airforce and lab they use to centrifuge their
	Samples. From now on they can sample after
	turbidity falls below 1000 NTV i and will collect
· ·	Candle alla I all a sing will collect
12:21	Samples after I hr of purging and maximum.  Acrostar measured turbidily over 1100 NTUS
12:29	
12-21	
12:38	and Afrositas in vehicles to warm of
12:42	Aerostar measured turbidity as 1100 NTUS
12.74	Aerostar measured turbidity as 768 NTV5 Will
17 · Ch	Sample
12:50	Cascade begin tripping rods out of WURUSAZO for
12.47	decon
13:07	Cascade released to screen on WURVSDZO before
	Actorios (50) Acrostar did not check for water in
in	rods beforehand
[3:11	Aerostar began perishaltic purging on wurword

Project Number: 6	30514613
Field Staff: Jask	
Time	Observation/Note
13:12	Aerostar measured flow rate as 700 min
13:18	Acrostor and AECCM in relicles to warm up while
13:24	Cascade Landaugering down to 10 St on WURVS.
	\$19, fire hydrant in area, want to make sire
	they are good to daill, hale moved out of words
	From Original location
13:30	Aerostar measured tubidily on WURUSDZW as over
	1/PONTUS
13-37	Acostar measured turbidity as 892 NTUS on
13:44	LIVRVSDZD
13:54	Aerostar began drilling on WURVSD19
13:55	Aerostar measured turbidity as over 1/00 NTUS WERVS
14:04	Cascade released the screen on WURWD19
777	Aerostar used WM to tag water level at 16.40 f
14:09	Aerostar began peristaltiz purging on wuruspig.
	purge vate is 700 min
14:18	Aerostar measured turbidity on WURVSD19 as 166
	NTUS, Aerostar hocked up flow cell
14:24	Aerostar measured turbidity as 27.7 NTUS on
	WURVS 019 Will Sample
14:42	Acrostar began peristallic purging on WURVSDZD.
	Slow rake 700 min
14:45	AECOM and Aerostar in vehicles to warm-up direct
	line of sight maintained
37 +5:08	Aeroslar measured terbility as 1060 NTUS
6:12	Aeroslar measured hishidity as 213 NTU'S

Site Name: Former Wortsmith AFB  Date: 11-30-21  Project Number: GD 5:4613  Field Staff: Josh W.  Time Observation/Note  16:27 Cascade Sealed WURUSDZD with bentonite  16:30 Jeremiah Called for check-in/yelate  16:50 AECOM offsite
Field Staff: Josh W.  Time Observation/Note
Time Observation/Note
Time Observation/Note
16:27 Cascade Sealed WURUSADZA with bentonite 16:30 Jeremiah Called for check-in/uplate 16:50 AECOM offsite
16:30 Jeremiah Called for check-in/uplate 16:50 AECOM offsite
16:50 AECOM offsile
/ / / /

Site Name: Former	Wystsmith AFB
Date: //-30-21	
Project Number: 606	14613
Field Staff: Wes Sta	imbaugh
Time	Observation/Note
0745	AFCOM arrive at Almstar Field Office, update chat
. =	with wes (Aerostar): Cascade has two rigs for VAS and
	RockWater will be doing one last sanitary semer soil boring
X155	AECOM mob to first VAS location WURVSQ21,
8800	Arrive at WURVSD21, Acrostar update: Cascade and Aprostar
	pushed to 60.0 ft bgs yesterday (11-29-21): Aerostar currently
	prepaing to take 60.0ft bgs sample (VAS), clay layer was
	reached at ~ 60.0Ft bas yesterday (11-29-21); will get full sampling into later
0810	Phone call update with Josh (AFCOM) (in car)
0854	Cascade begins removing toding and herostar packs up
	equipment; AECOM daily log updates (in car)
Φ83Φ	Cascade mobito rig #2 location to gather needed equipment
4875	Morning Check in with Jereniah (in car)
Q843	Alrostar mob to MURVSDZD and begin set up
Q845	AECOM nob to UURUSOIL (Cascade rig #2): Alrostar and
	Cascade pushed to FD. Off bgs yesterday (11-29-21) and took their
	Jeepest sample at 40 Oft bys.
φ85 <i>S</i>	Aerostar begins prep for taking 60. Aft bas vAs sample
0916	ACCOM nob to Alrostar Field office for both room break
0920	Check in with Noel (Aerostar), Rockwoter is triling
	two holes for sanitary sever wurstelft and wurstelsa,
b. 4	these holes were inaccessible until now
0930	AECOM NOO to WURSUIGO
0940	ACCOM arrive at MURSBILD, ROCKWater and Aerostar Lave
	already begun pushing currently at 12.0 Ft bgs Aerostar and Rock Water Jemob from MURSB160 and MOB to
1005	Alrostar and Rock Water Jemob from MURSBIGO and MOB to
	WURSISTS ACCOM update daily log and prip for EGLE
/ h ) ==	Split sample (in car)
1015	AECOM MOB to WURSS159
1030	ROCK voter begins direct push on NURSBIS9, phone update with Josh (Accom)

No Por

Page \_\_\_of \_\_\_\_

Site Name: Former wurtsmith AFB Date: 11-30-21 Project Number: 60614613 Field Staff: WPS Stambauah Observation/Note 1195 Aerostar and Rockvater complete direct push on MURSDISQ mol back to Alrostar ried office AECOM MOB to WHRUSDED COPS WURUSDIG 1110 ACCOM arrive at wurve only update und log with malk 1120 (Aerostar) ACCOM MOB to WURUSD2D 1175 1260 AFCOM Lunch Break and Filled up gas AECOM return from Lunch 13 reak: mob to wurvsp28 to 1230 observe Rockvoter running VAS Alrostar and Rock water begin direct push VAS on wurvsp28 1235 Rock Water is doing continuous coring with a 5ft screen and spagnetti rod to open the screen Afternoon check-in with Jeremiah; updates on Rockvoter 1255 CIEW and (P) Rockwater opens the screen to try and deck DTW 1300 Aerostur checks DTW but whater is not coming through the 1315 screen Rock voter adds nort spaglett; pod to try and open the screen more Aerostar trys the purging process to see if there is any water in the casing but there is not; Eric (Aprostar) 1320 calls Noel to see how they should proceed Aprostar and Rockrater path begin pulling casing to close screen 1330 and push again to 22. Off bas: water night be deeper here than other locations periodically observe from car to avoid cold stress 1345 A crostar negured DIW as (MPS) AECON bathroom break and Rockvater Lunch Lineak 1400 Afrostar begins purging at 22. Off bgs: purge rate is too 1420 slow Aprostar and Rock Water need more flow so Rock Water is pulling 1435

War Page 2 of 3

at a F	
	- Wurtsmith AFB
Date: 11-36-21	
Project Number: 6 ゆ の Field Staff: いじょ ちん	<u> </u>
Field Stam: 4 C3 340	2 moduly
Time	Observation/Note
1455 cont.	casing to dosp screen and pysling again to 24.0ft bgs: Water
	casing to dosp screen and pushing again to 24.0ft bgs; water 18vel is at 21.0ft bgs and 10ft of head is not enough to
	wear (Eric Almstar)
1450	Rockwater reaches 24. Off bas and uses spagnetti rod to
	open screen
1500	Rockvater pulls casing higher to open screen more
1535	puraing is still too low or a tlow, tric (HUDSTAR) chacken
	with Noel to figure out a solution
1550	Noel and Eric decide to end the Rockwater VAS for
	the day AECOM not to WURVSOLD with Josh (AECOM)
1620	AECOM off site
	NA
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Page 3 of 3

	Former wuntsnith AFB	Soil Boring ID:	WURSE	:013
ORING LOC	Alert Aircraft Area	GROUND SURFACE ELEV	ATION AND DATUM	M:
	DNTRACTOR: ROCKWOTER	DATE STARTED: 12-0	2-2\	DATE FINISHED: 12-02-21
RILLING ME	NILCE MOV	TOTAL DEPTH: 4. 6. 6	ft bg5	TOTAL SAMPLES COLLECTED:
VILLING EG	GEOPTO &	MEASURED DEPTH TO W	7A5	DEPTH OF SATURATED MEDIA:
AMPLING M		OGGED BY: W. S	anbaugh	
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE		E IDs/Notes
7 3 - 7	first attempt hit refusal see previous records,			-Φ) 2021350WPS PΦ)

PROJECT:	87A Atinetrul 19m707	Soi	1 Boring ID: WURSBO13
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
-			
17	& saturation in sleeve at 17. Offtbye	_	
18	I WLM reading of 18.547 bgs		
19			
-	Reason S-water table reached for End J-sampling complete		
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			Page_1_ of_1_

PROJECT:	Former Wurtsmith ACR	Soil Boring ID: WURSB164
BORING LO	OCATION:	GROUND SURFACE ELEVATION AND DATUM:
DRILLING C	Alert Aircraft Area	DATE STARTED: 12-02-21 DATE FINISHED: 11-02-21
DRILLING N	KU (XEV WIE)	TOTAL DEPTH: 20.0 CF 645  TOTAL SAMPLES COLLECTED:
DRILLING E	Geoprobe	MEASURED DEPTH TO WATER: DEPTH OF SATURATED MEDIA:
OALES INC.	· ·	17.95 A bas N/A
SAMPLING	METHOD:	LOGGED BY: W. Stanbaugh
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE IDs/Notes
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12		
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		-EGLE Spit: SB2112021155 WPS
14		11017010
-		-wuR11791A (1155)
$\vdash$		(M)
		Page / of 2

PROJECT:	ner wurten ith AFB	Soi	il Boring ID: WURSB164
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
16			
18	I wem reading at 17.95ft tys	-	
19		-	
-	Reason S-water table reached for End Z-sampling complete	-	
		-	
-		-	
-		-	
-		-	
		-	
			Page <sup>12</sup> of <sup>12</sup>

HIGHT AITCOUT ATEA  ING CONTRACTOR: ROCK WAET  ING METHOD: Direct Push  ING EQUIPMENT: CPOPOBE  LING METHOD:	DATE STARTED: 12-02-21 TOTAL DEPTH: 20.0 Ff bgs TOTAL SAMPLES COLLECTED: DEPTH OF SATURATED MEDIA:  N/A Heavy Depth of Saturated Media:  N/A Heavy Sample IDs/Notes  SAMPLE IDs/Notes
ING METHOD:  DIFELT PUSH  OF POSE  LING METHOD:  LING METH	TOTAL DEPTH: 20.0 FL bgs  MEASURED DEPTH TO WATER:  N/A Heave  LOGGED BY: W. Stambaugh
ING EQUIPMENT: CP Prof C	MEASURED DEPTH TO WATER:  N/A Heave N/A  LOGGED BY: W. Stambaugh
LING METHOD:	N/A Heave N/A
LING METHOD:	LOGGED BY: W. Stambaugh
GENERAL LITHOLOGY DESCRIPTION	SAMPLE IDs/Notes
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<del></del>	-WUR11796A (1245)
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	M/4 - ~ UKII / 101/ (12.45)

PROJECT:	mer wuntsnith AFB	Soi	1 Boring ID: WURSBI65
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
16			
17 -		-	
19	Heave		-WUR11796B (1310)
20	EOR at 20.0ft bgs Reason S-water table reached for End C-sampling complete	- / / /	
	for End (- sampling complete		
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			Page 2 of 2

BORNING CONTRACTOR  ALE T A TCTATT A PRA  DRILING CONTRACTOR  ROCK WATER  OATE STARRED 19-6221  DATE FINISHED: 12-022  TOTAL DEPTH 20-05 TO SAMPLES COLLECTED:  MILEJON EMPTH OF STARRED 19-6221  TOTAL DEPTH 20-05 TO SAMPLES COLLECTED:  MILEJON EMPTH OF STARRED MEDIA  MACHINES REQUIPMENT:  GENERAL LITHOLOGY DESCRIPTION  SER PREVIOUS FRANCES ELEVATION AND DATUM  SAMPLE ID JANE FINISHED: 12-022  TOTAL DEPTH 20-05 TO SAMPLES COLLECTED:  MILEJON EMPTH OF STARRED MEDIA  MACHINES REQUIPMENT:  SAMPLE ID JANE SAMPLE ID J	BORNELOCATION ALE A CONTRACTOR AND DATUM.  SPELLING CONTRACTOR.  SAMPLING BELLING SCHUMENT:  GEOPPOBLE  GEOPPOBLE  GENERAL LITHOLOGY DESCRIPTION SEE PROPERTY.  GEOPPOBLE  GENERAL LITHOLOGY DESCRIPTION SEE PROPERTY.  GENERAL LITHOLOGY DESCRIPTION	PROJECT:	orner Wurtsmith AFB	Soil Boring ID: WURSUD 28
ORILING CONTRACTOR: ROCK WATER  ORILING METHOD  DIRECT PUSS  ORILING EQUIPMENT:  QEOPTOBE  MEASURED DEPTH ON WATER  MEASURED DEPTH OF SATURATED MEDIA:  N/A  SAMPLE DEPTH OF SATURATED MEDIA:	ORLING CONTRACTOR ROCK WATER  ORLING TO DEPTH 20		TION:	
See previous recording see previous feconds  See previous recording see seem and see	Seleption of the control of the cont	DRILLING MET	HOD: DIPECT PUSh  JIPMENT: GEOPPOBE	TOTAL DEPTH: 20.0 ft 645 TOTAL SAMPLES COLLECTED:
See previous recording see previous feconds  See previous recording see seem and see	Seleption of the control of the cont			m d Slambaugh
2 - WARII783 (1635)  8 - WARII783 (1635)  10 - WARII784 (1165)	2 - WURLITES (1625)  2 - WURLITES (1625)  2 - WURLITES (1625)  2 - WURLITES (1625)  11 - WURLITES (1625)	(feet)		SAMPLE IDs/Notes
	Page 1 of 2	2 3 4 5 6 7 8 9 10 11 12 13		JURIT84A (1105)

PROJECT	orner wurtsmith AFB	Soi	il Boring ID: WURSB\$ 28
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
16		-	
17		_	
18	I were reading at 18.7 ft bgs	_	
20	L o b dfll	-	
	Reason S-water table reached for End C-sampling complete	_	
-	for End & sampling complete	-	
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-			Page <sup>→</sup> of →

RILLING METHOD:  Direct Publ  TOTAL DEPTH: 20,015 by 5  TOTAL SAMPLES COLLECTED: 2  MEASURED DEPTH TO WATER: 1  DEPTH OF SATURATED MEDIA: N/A  AMPLING METHOD:  LOGGED BY: N. Stanbaug)  GENERAL LITHOLOGY DESCRIPTION  Sele previous records  Sele previous records  LOGGED BY: N. Stanbaug)  SAMPLE IDS/Notes	Former Wurtsmith AFB	Soil Boring ID: WYRSB 15
RILLING CONTROLORS  PICE PASS  RILLING GOUPMENT:  CACOPYOBE  CACOP	BORING LOCATION: Pert Aircraft Area	
RILLING ROUPMENT:  CALOPYOBE  CAL	DRILLING CONTRACTOR: ROCKWOFLE	DATE STARTED: 12-02-21 DATE FINISHED: 12-02-21
RELIANS COLUMNATE.  GROPPO DE MESSURED DEPTH TO WATER Y N/A  AMPLING METHOD:  GROPPO DE MESSURED DEPTH TO WATER Y N/A  AMPLING METHOD:  GROPPO DE MESSURED DEPTH TO WATER Y N/A  AMPLE DANIOLES  SAMPLE DANIOLES  SAMPLE DANIOLES  WE N/A  WE N/A  AMPLE DANIOLES  AMPLE DANIOLES  WE N/A  AMPLE DANIOLES  AMPLE DANIOLES  WE N/A  AMPLE DANIOLES  AMPLE DANIO	DRILLING METHOD: Direct Publ	TOTAL DEDTIL O D LOCAL DESCRIPTION OF THE PROPERTY OF THE PROP
AMPLING METHOD:  SERVEN LITHOLOGY DESCRIPTION GOOD TO TOO TO SERVEN TO TOO TO TOO TO TOO TO TOO TO TOO TO T	DRILLING EQUIPMENT:	MEASURED DEPTH TO WATER: UDEPTH OF SATURATED MEDIA:
AMPLING METHOD:  GENERAL LITHOLOGY DESCRIPTION SEQ PREVIOUS PECOFIS  GENERAL LITHOLOGY DESCRIPTION SEQ PREVIOUS PECOFIS  WARTITGA (0455)  WARTITGA (1000)	Gloprobe	
GENERAL LITHOLOGY DESCRIPTION SAMPLE IDANOISES  GENERAL LITHOLOGY DESCRIPTION SOLUTION SOLUTION SOLUTION SAMPLE IDANOISES  SAMPLE IDANOISE		18.2771 093 10/14
GENERAL LITHOLOGY DESCRIPTION SAMPLE IDANOISES  GENERAL LITHOLOGY DESCRIPTION SOLUTION SOLUTION SOLUTION SAMPLE IDANOISES  SAMPLE IDANOISE	SAMPLING METHOU:	LOGGED BY: V. Stanbana
-WURII769 (0955)		
-WURII769 (0955)	F g	S S S S S S S S S S S S S S S S S S S
-WURII769 (0955)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE IDs/Notes
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- WURII769 (0455)		
- WURII769 (0455)		
- WURII769 (0455)		
- WURIT69 (0955)	1	
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14 -WURII769A (1000)		
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	'7	Will have the chall
		1/// _WUK117674 (1477)
		1''/

PROJECT:	Former Vurtsmith AFB	Soi	I Boring ID: WURSB (25
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
16	EDB at 20.0ft bgs Reason S-Water table reached for End Z-sampling complete	-	- EGLE Split: 582112021000WPS
-			Page 2_of 2_

FOrm!	or Wurtsnith AFB	Soil Boring ID: $\vee$	URSBÓZY
BORING LOCATIO	Alert Aireroft Area	GROUND SURFACE ELEVATION	I AND DATUM:
PRILLING CONTRA	ACTOR: Rockwater	DATE STARTED: 12-02-	DATE FINISHED: 12-02-2
RILLING METHO	Direct Push	MEASURED DEPTH TO WATER:	TOTAL SAMPLES COLLECTED: 3  DEPTH OF, SATURATED MEDIA:
THE ITO E GOIL IN	Geoprobe	18.5 Ft 695	,   n/A
AMPLING METHO	DD:	LOGGED BY: W. Stan	baugh
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION SEE PREVIOUS FELSIS	SAMPLE	SAMPLE IDs/Notes
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5		177	
-			(1017)
6		W-WUR11763	(pq1/)
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9			
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10		///	
		-wuR1764	(p925)
11		-wuku 16 1	(4, )
12			-
13			
14		11/1	TOTAL TOTAL
1 1		1111	<b>ダブトロッカー</b>
-		J-LWURIT6	JALU 34 )

Former wuntsmith APB	Soil Boring ID: WRSBQ24
GENERAL LITHOLOGY DESCRIPTION	SAMPLE IDs/Notes
18 IV WEM reading of 18.5 ft bys 19 20 EOB at 20.0 ft bys Reason Sewater table reached For End 2-sampling complete	
	Page_~_of_2_

PROJECT:	tormer Wurts mith AFB	VAS	AS Boring ID: Wurus 027			
BORING LO	CATION:	GROU	DUND SURFACE ELEVATION AND DATUM:			
DRILLING M	QUIPMENT: Geofobe 7822 DT	DATE STARTED: 12-02-21  TOTAL DEPTH: 71 \$1 695  MEASURED DEPTH TO WATER:  18-2 \$1 695  DATE FINISHED: 12-03-21  TOTAL SAMPLES COLLECTED: 9  DEPTH OF SATURATED MEDIA:				
SAMPLING	METHOD: Low flu	LOGG	LOGGED BY: Josh W.			
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL				
2 - 4 - 6 - 8 - 12 - 14 - 16 -	Geology rod Collected, correlated to MPT 003, depth of chy is 69.3 st has					
24	I measured DTW is 18.2 ft bgs		(18-21.0 ft bgs) - Screen  Turbidity: 84.4 NTVs  Flow rode: 100 min  iv1. furged: 4.5 gal  WUR10054 (18.0-21.0) @ 12:19  (28.0-31.0) ft bgs - screen  WUR10055 (28.0-31.0) @ 13:17  Turbidity: 582 NTU's  vol. βυζεθ: 6 gal  flow rate: 100 min  EGLE: GW2112021317 JW  Page Lof 3			

ROJECT: For	Former Wurtsmith AFB		VAS Boring ID: WURUS \$27		
(feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes		
32		-			
36 - 38 - 40 - 42 -			(38.0-41.0) 655) - Screen  WURI DD 56 (38.0-41.0) (214.0)  Turbidity: 775 NTVs  Vol. purged: 55 gal  Flow rate: 100 min		
44 - 46 - 48 - 50 -			(48.0-51.0 ft bgs)-5creen WUR 10057 (48.0-51.0) @14:57 Torbidity: 602 NTV's Flow rate: 100 min vol. purged: 4.5 gal		
52 — - 54 —		-	EB-WURZ5289 @+5:20 15:19		
56			(58.0-61.0 ft bgs)-Screen  WUR 10059 (58.0-67.0) @ 16:40  Flow Oak: 100 min  Turbibity: 870 NTUS  Vol. Ruged: 6.5 gal.		
62			FP-WURIDIDD9		
66			Page 2 of 3		

PROJECT: For	mer Wurdsmith AFB	VAS	VAS Boring ID: WVKVSØZ7			
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes			
66		<u>-</u>	(68.0-71.0 ft bgs) - Screen WVR10058A (68.0-71.0) @ 09:10 fbw rate: 100 min Turbidity: 682 NTUS			
7φ			Turbidity: 682 NTUS			
72	EOB @ 71 51 bgs		Vol- porged: 4.5 gal.			
74						
76						
78						
δφ						
82						
84						
86						
88						
90		-				
92		-				
94						
76		_				
98						
144						
102			Page <u>3</u> of <u>3</u>			

RINGLOCATION:  A) PCT A) CCTAFF ASB  ILLING CONTRACTOR ROCK WATER  ILLING CONTRACTOR ROCK WATER  ILLING EQUIPMENT:  CROPPS P  MPLING METHOD:  GENERAL LITHOLOGY DESCRIPTION  SROP OF ENVIRONS RECORDS  GENERAL LITHOLOGY DESCRIPTION  SROP OF ENVIRONS RECORDS  SAMPLE IDENDING  TOTAL DEFTI: Let of 14 has a post of the part of part and part of part of part and part of part and part of part of part and part of part of part and part of pa	ROJECT:	ormer wuntsmith AFB	Soil B	oring ID: WURSLZ	3017	
ILLING CONTRACTOR: ROCK WATER  ILLING METHOD DIT REPTORS TOTAL DEPTH: 12 0 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		<u> </u>				
ILLING EQUIPMENT:  CAROPTO C  MPLING METHOD:  CAROPTO C  MPLING METHOD METHOD  SAMPLE IDENTIFIED  A  MPLING METHOD:  CAROPTO C  MPLING METHOD:  CAROPTO C  MPLING METHOD:  CAROPTO C  MPLING METHOD  SAMPLE IDENTIFIED  A  MPLING METHOD:  CAROPTO C  MPLING METHOD:  CA			72			
MELING EQUIPMENT:  GROPPOBE  MELING METHOD:  LOGGED BY: W. STANDAUGN  SAMPLE IDENNOISES  SAMPLE IDENNOISES  WURITZ 9 (1344)	ILLING CONT	RACTOR: ROCK WATER				
MPLING METHOD:  DOGGED BY: W. STAMBAYA)  SAMPLE IDBINOISES  SAMPLE IDB		MENT:	MEASURE	D DEPTH TO WATER!		
GENERAL LITHOLOGY DESCRIPTION SOR PREVIOUS PRECORDS  SAMPLE IDANOMES	Globuse			V/A Lole coll		
-wuki724 (1244)	MPLING METI	HOD:		Y: W. Stambaugh		
-wukii729 (1344)	(feet)		SAMPLE	SAMF	PLE IDs/Notes	
-wukli729 (1344)						
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Former Wurtsmith AFB	Soil Boring ID: WURSB タイフ
GENERAL LITHOLOGY DESCRIPTION	SAMPLE IDs/Notes
	SAMPLE IDs/Notes
-	Page 2_of 2_

POPLET WUTSMITH	Soil Boring ID: WURSSOIS						
APRT Aircra		GROUND SURFACE ELEVATION AND DATUM:					
PRILLING CONTRACTOR: ROCKWOTE		DATE START	ED: 12-01-21	DATE FINISHED: 1201-21			
DRILLING METHOD: DIPER PUSK	3 = =		H: 20,0ft bys	TOTAL SAMPLES COLLECTED: 1			
01110110011		MEASURED	DEPTH TO WATER:	DEPTH OF SATURATED MEDIA:			
PRILLING EQUIPMENT:	C	19.15f	LLas	N/A			
AMPLING METHOD:		LOCCEDBY	1 093	10/7			
AMI ENG METHOD.		LOGGED B1.	W. Stambaugh				
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GENERAL LITHOL	LOGY DESCRIPTION	MPI.	SAMF	PLE IDs/Notes			
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PROJECT:	Former vurtsmith ARB	Soi	Boring ID: WURSB中18
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
16		_	
17			
18 -	DULM reading at 19.15 ft 6g6	-	
10	EOB at 20.0ft bgs	-	
	Reason 5-water table reached for End 2-sampling complete	-	
-	Savyrig	-	
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FORME	r wurtsmith AFB	Soil Boring ID: WURSBONA GROUND SURFACE ELEVATION AND DATUM:					
ORING LOCATIO	Alert Aircraft Area						
RILLING CONTR	RACTOR: RECENTATE	DATE STARTED:	12-01-21	DATE FINISHED:	12-01-21		
RILLING METHO	ractor: Rockwater DD: Direct Push	TOTAL DEPTH:	1041-	TOTAL SAMPLES			
RILLING EQUIP		MEASURED DEP					
	GRESPIOLE	MEASURED DEP	TH TO WATER: 45 544	AIN (S)			
AMPLING METH		LOGGED BY:	di Stambaugh	רואו ופון			
- INO METT		LOGOLD B1.	~ STAMBANGN	<u> </u>			
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(feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAM	PLE IDs/Notes			
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PROJECT:	ormer wontenith AFB	Soil Boring ID: WURSBOIG	
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE IDs/Notes	
19 -	217.66ft bys WLM reading		
20 -	EOB at 20.0ft bgs Reason for S-voten table reached End - sampling complete		
-		Page	

PROJECT: FORM	er Wurtsmith APB	Soil B	oring ID: wurseld	926			
BORING LOCATIO	Alert Aircraft Area ACTOR: Rockwater	GROUND S	URFACE ELEVATION AND DATU	JM:			
DRILLING CONTR	ACTOR: Dackblater	DATE STAF	TED: 12-01-21	DATE FINISHED: 12-01-21			
ORILLING METHO	D: Direct Push		TH: 20 Off 695	TOTAL SAMPLES COLLECTED: 1			
ORILLING EQUIPM	D17 (c) 1 (d 2d)		DEDTH TO MATER.	DEBTH OF CATHDATED MEDIA			
NIELINO EQUI N	LAEDTOLP	1	N/A 1 al 0 col/105	P. N. J.A.			
SAMPLING METH	OD.		N/A LOIR COI APSE N/A				
SAMPLING METH	OB:	LOGGED B	" w. stantam)				
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DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	NS ME	SAMP	LE IDs/Notes			
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PROJECT:	-ner Justsmith APB	Soi	il Boring ID: WURSは中2中
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
19 20 -	EOB at 20.0ft bys  Roason 5-water table reached for End 2-sampling complete		-ECale split: SEZIINDIIIZDUPS
		<u> </u>	Page_2_of_2

ROJECT:	er wuntsmith AFB	Soil Bori	ng ID: WUR	SB \$22 15		
ODING LOCATION:	rt Aircraft Area	GROUND SURF	ACE ELEVATION AND D	DATUM:		
RILLING CONTRACTOR:	Rockwater	DATE STARTED	12-101-21	DATE FINISHED: 12-(	01-2.1	
	irect Push	TOTAL DEPTH:	20.0 ft bas	TOTAL SAMPLES COLL		
RILLING EQUIPMENT:			-4.017 099			
VIELINO EQUII MENT.	Geoprobe	INICASORED DE	THIO WATER.	N/A	NIEDIA:	
	Ol cobies	17.7+	645	A\N		
MPLING METHOD:		LOGGED BY:	bys W. Stanbangh			
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(feet)	ENERAL LITHOLOGY DESCRIPTION	SAMPLE IDs/Notes				
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PROJECT:	rmer Wurtsmith AFB	Soil Bo	ring ID: WURSIS PIX 2
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
16 - 18 - 19 -	INLM reading at 17.7 Ft bgs	-	
	GOD at 20.0ft bys  Reason S-voter table reached for End (-sampling complete		
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		-	Page 2 of 2

PROJECT:	orner wurtsmith APB	Soil B	oring ID: WURSBO	23	
BORING LO	cation: Alert Aircraft Area	GROUND S	URFACE ELEVATION AND DATUM	И:	
DRILLING C	ONTRACTOR: ROLLSHOFF	DATE STAF	RTED: 12-01-21	DATE FINISHED: 12-0	11-21
DRILLING M		TOTAL DEF		TOTAL SAMPLES COLLE	CTED: 2
DRILLING E			DEPTH TO WATER:	DEPTH OF SATURATED	MEDIA:
	C140/706C		N/A *heave	N/A	
SAMPLING	METHOD:	LOGGED B	Y: W. Sta-baugh		
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPL	E IDs/Notes	
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PROJECT:	orner wurtsnith AFB	Soil Boring ID: WURSBP23
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL SAMPLE IDs/Notes
16 -		EGLE SPIT SERVIZED
18		
20	COR + 2 h h ft bas	
-	EOB of 20.0 ft bgs  Reason S-worter Table reached  For End L-sampling complete	
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		Page 2_of 2_

PROJECT: Former Wurtsmi		Soil Boring ID: WURSEDIL					
BORING LOCATION: Alert Aircraft		ROUN	D SURFACE ELEVATION AN	D DATUM:			
DRILLING CONTRACTOR: ROCKY of C.	D	ATE S	TARTED: 12-01-21		DATE FINISHE	D: 12-01-21	
DRILLING METHOD: Direct Push	Т	OTAL (	DEPTH: 20.0 ft bas			ES COLLECTED:	1
DRILLING EQUIDMENT:			RED DEPTH TO WATER:			TURATED MEDIA:	•
(deproble	8		18,55ft be		NIA	TOTOTTED MEDIA.	
SAMPLING METHOD:	11	OGGE	740077 De	13	. 1///		
SAINT EING WETTIOS.	L.	OGGE	DBY: W. Stamband	7			
GENERAL LITHOLOGY DES	SCRIPTION S	INTERVAL		SAMPLE I	Os/Notes		
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14			-WUR 11724 AT	(1435	)		
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PROJECT:	FORMER WUTSWITH AFB	Soi	1 Boring ID: WURSBOIL
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
1 0 DEPTH (feet)		-	Eate SpirisBritables
		_	Page 2 of 2

PROJECT: Former Worksmith AFB	VAS Boring	VAS Boring ID: WURVS \$\phi_{32}\$				
BORING LOCATION: BOA	GROUND SURFACE	GROUND SURFACE ELEVATION AND DATUM:				
DRILLING CONTRACTOR: CASCA & P	DATE STARTED: /	7-01-71	DATE FINISHED: 12-02-21			
DRILLING METHOD: Direct - Push	TOTAL DEPTH:	2-0121	TOTAL SAMPLES COLLECTED:			
Geopabe 7822 DT	MEASURED DEPTH	4.6 St bas	DEPTH OF SATURATED MEDIA:			
SAMPLING METHOD: LOW Flow	LOGGED BY: Jo	ish W.				
GENERAL LITHOLOGY DESCRIPTION	AA A		PLE IDs/Notes			
Geology not collected depth of clay will be de by pushing down to 75 frand also correlated to W	the minel to be so to					
8						
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14 DTW measured as 14.6.	ft bgs	14.0-17.0 WUR 100; Flow rate; Turbidity; Vol. Furged	34.3			
220		out Anga	, 7 dal.			
22						
24		MURIPPS	ft los) - 6 creen Φ (24.Φ-27.Φ) @ Φ9:53			
28		Flow rate: 30 Turbidity: 1 vol. projed:	419 NTUS 79al.			
30		ULE (1211	2010953 JW Page 1 of 3			

PROJECT:	mer Wurtsmith AFB	VASI	Boring ID: WURVSQ32
(feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
37 34 36 38			(34.0-37.0 ft bgs)-Screen WURLODD 81 (34.0-37.0) @ 10:5 flow rate: 300 Turbidily: 879 NTVS Vol. purged: 8 gal
42 44 46 48			(44.0-47.0 ft bgs) -5 creen  WUR 10082 (44.0-47.0) (2) 12:14  flow rate: 300 min  Turbidity: 715 NTVs  Vd. fugel: 9 gal
57 - 54 - 56 - 58 -			(54. \$\phi - 57. \$\phi \text{ flys}) - 5(rect) \\ \times VR   \$\phi \phi 83 \left( 64. \$\phi - 57. \$\phi \right) \alpha   44.   \\ \times \text{ flow rate: Zood min } \\ \text{ Turbidity: 763 NTVs} \\ \text{ vol. puged: 14 8al.} \\ \text{ Sample depth: 56 st bg s}
62			val. purged: 12 gal.
64		-	(64.0-67.0 \$ bgs)-screen  WURIDD83.4 (64.0-67.0)@16:  Slow rate: 60 30 300 7/20.  Turbidity: over 1100 NTUS

(70.0-73.0 ft 695) - Screen   Will 1083 3 @ 12:09   Flow rade: 200 min   Tot biology: 12 gal.		Former Worlsmith AFB	VAS B	oring ID: WURV5432	
(70.0-73.0 ff 695) - screen   Win 10 083 0 0 12:09   Flow Park: 200 min   To bidity: labor NTV5   Vol. frages: 12 gal.   12   12   12   12   12   13     14   15   15   15     15   15   15     16   17   18   18     17   18   18     18   18   18     19   19   18     10   18   18     11   18   18     12   18   18     13   18     14   18   18     15   18   18     16   18   18     17   18   18     18   18     19   18   18     10   18   18     11   18   18     12   18     13   18     14   18     15   18     16   18     17   18     18   18     19   18     10   18     10   18     10   18     11   18     12   18     13   18     14   18     15   18     16   18     17   18     18     18     19   18     10   18     1	DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes	
572 —	56 - 74 - 74 - 78 - 78 - 78 - 78			(70.0-73.0 ff 695) - Screen WURIDO83B@ 12:09 flow rate: 200 mm Turbidity: 1000 NTVS Vol. Punged: 12 gal.	
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12	38				
78	W -		-		
78	72				
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ROJECT:	r Wurtsmith AFB	Soil Bo	ring ID: WMR	53012	
ORING LOCATION:	ent Aircraft Area	GROUND SUI	RFACE ELEVATION AND DAT	TUM:	
RILLING CONTRACTOR	ROCKHOTET	DATE START	ED: 12-01-21	DATE FINISHE	D: 12-01-21
	Direct Push	TOTAL DEPT	H: 20.0 ft bas		ES COLLECTED:
ILLING EQUIPMENT:		MEASURED I	EPTH TO WATER:	DEPTH OF SA	TURATED MEDIA:
	Geoprobe	18,	5ft bas	N/A	
MPLING METHOD:		LOGGED BY:	w. Stambaugh		
			576(1106(119))		
	GENERAL LITHOLOGY DESCRIPTION SER PROVIOUS RECORDS	SAMPLE	SAM	MPLE IDs/Notes	
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PROJECT	orner wurtsmith AFB	Soil Boring ID:	~ursboll	
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes	
16				
M				
18	Dulm roading at 18.5 ft bys			
19				
20_	EOB at 20.0 Ft bgs Reason S-vater table reached For End 2-sampling complete			
-	for End 2-sampling complete			
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		-		Page <b>2</b> _ of _ <b>2</b> _

PROJECT:	Former Wurtsmith AFB	VAS Borir	ng ID: WURVS	<b>4</b> 34
BORING LOC	ATION: BOA	GROUND SURFA	CE ELEVATION AND DATUM:	· /
DRILLING CC	INTRACTOR: CaiScade	DATE STARTED:	12-01-21	DATE FINISHED: 12-02-21
DRILLING ME	THOD: Direct-arst.	TOTAL DEPTH:	73 ft bas	TOTAL SAMPLES COLLECTED: 10
DRILLING EC	WIPMENT: Geople 7822DT	MEASURED DEP	TH TO WATER:	DEPTH OF SATURATED MEDIA:
SAMPLING M	IETHOD: LOW Flow	LOGGED BY:	14.3 ft bgs	
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE		IDs/Notes
2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Goology not collected, depth of clay determined by poshing down to 75 ft bgs and also correlated to wuruspap -71.2 ft bgs	ł I	WURIDORY ( FILL Vak: 1 vd. purged: Turbidily:  (24.0-27.0 WURIDOR: 1 flow fak: 1	14 991. 204 NTUS 5 (24.0-27.0) @ 09:35
20		-		
J -				Page of 3

PROJECT:	Former Wurtsmith AFB VA		/AS Boring ID: UVRUS \$434		
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes		
34 - 36 - 38 - 38 -		-	(34.0-37.0 ft bgs)-screen WUR 10086 (34.0-37.0)@10:36 Vol. Purzed: 11 gal Turbaily: 1048 NTVS flan rate: 100 min		
42 - 42 - 44 - 46 - 48		-	(44.φ-47.φ ft bgs)-5creen WUR 1ΦΦ87 (44.φ-47.φ)@ 11:47 vol. purged: 12 gal. Turbidity: 909 NTVs flow rate: 1ΦΦ		
5¢ -			EB -WUR 25292 @11:57 on Screen		
52 - 54 - 56 - 58 -			(54.0-67.0 ft bgs)-Screen WUR 10088 (54.0-57.0) @ 13:54 vol. Purged: +00 mc 000 20 9al Turbidity: over 1/00 NTUS flow rate: 100 min FD-WUR 101012		
ω ω					
6Z			(64. \$\phi - 67. \$\phi \text{ ft bgs} \) - Screen  WURIDO 88 A (64. \$\phi - 67. \$\phi) @15:59  Vol. purged: 1\$\phi \text{gal}  Turbidity: 65 \$\phi NTUs  flow rate: 100 \(\frac{nc}{min}\)  Page 2 of 3		

PROJECT:	Former Worlsmith	VAS	Boring ID: WURVS \$450034
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
68 - 70 - 72 - 74 - 78 - 88 - 90 - 92 - 94 - 96 - 98	EOB @ 73 St bgs		WURIADS B (70.0-73.0)@ 10:05  vol. fuged: 4 g.l. 12gal  Turbidity: 728 NTU'S  Slow rake: 140 mm  (70.0-73.0 ft bgs)-5creen
194			
102			Page <u>3</u> of <u>3</u>

Former Workmith AFB		VAS Boring ID: WURV5Φ2Φ			
RING LOCATION:	GROUND SUR	FACE ELEVATION AND DATE	JM:		
ILLING CONTRACTOR: C	DATE CTARTE	D. 14			
ILLING CONTRACTOR: Cascade  ILLING METHOD: DIRECTORY	DATE STARTE	11-1940-21	DATE FINISHED: 11-30-21		
0 11 (61 700 4	TOTAL DEPTH	017109)	TOTAL SAMPLES COLLECTED: 5		
LLING EQUIPMENT: GEOPPOBE 7822 DT	MEASURED D	18.2 1 bas	DEPTH OF SATURATED MEDIA:		
MPLING METHOD: Low Slow	LOGGED BY:	Josh W.			
	ш 4	COOK W			
GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMF	PLE IDs/Notes		
No Geology Collected,  2 depth to clay correlated with  HPT boring MWDD4 - clay at  58 ft bgs					
6					
8	-				
ф <u> </u>					
14					
16					
Measured DTW as 18.2 flbgs		(18.0-21.b	9+ bgs) - Screen		
	7//				
- I RI3-D DTW is 19 8+ bas			(18.02+(18.0-21.0)		
26		610:13			
		Tuchia	ily: 12.4 NTV5		
	22				
22 <del>  </del>		HOLV ri	ate: 100 min		
-			ged: 2.5 gal		
			गुन्द - ७ हाना		
24 —					
-					
26					
-0		(ah mih)			
	TAIL	(28.0-31.0)			
28	7777	WUR 11541 (	28.0-31.0) @ 11:10		
		Turbidity: 50	45 NTUS		
	P / / / 1				

	Former Wurdsmith AFB	VAS Boring ID: WRVS ΦΖΦ
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE IDs/Notes
34 - 32 - 34 - 42 - 44 - 48 - 52 - 54 - 55 - 56 - 56 - 56 - 56 - 56 - 56	GENERAL LITHOLOGY DESCRIPTION	Sample Dismones   Sample Dismones   Sample Librores
58 - - - - - 62 -	EOB@ 61 \$1695	WURII 544 (58.0-61.0) @ 6:15  Turbidily: 50 128 NTU'S  Flow rate: 100 min  vol. puged: 13 9a1  Sample depth: 60 fl bgs
64		Page <u>2_of 2</u>

RING LOCATION:  ILLING CONTRACTOR: Cas cade  ILLING METHOD: Direct-publ	STARTED: 1/-30-21 DATE FINISHED: 12-02-21
ILLING CONTRACTOR: Cas cade ILLING METHOD: Direct-publ	
ILLING METHOD: Direct-publ	DATE STARTED: 1/270-71 DATE FINISHED: 12-42-21
WILLIAM SOLUTION TO THE STATE OF THE STATE O	1/042
(afcDCAhe	TOTAL DEPTH: 70.6 FT. 695  MEASURED DEPTH TO WATER: DEPTH OF SATURATED MEDIA:
•	16.40 ft bas
MPLING METHOD: LOW Flow	LOGGED BY: Jash W.
	SAMPLE IDs/Notes
Depth to clay Correlated to WURUS \$\Phi 3\Phi - clay at 71.2 ft bgs	
8	
<b>D</b>	
2	
Measured DTW at 16.40 97 bys	(17.0-70.0 ft bgs) - Sareen  flow rate; 250 m/min  vol. paged: 2 gal.  Turbidity: 27.7 NTUS
24	WUR11535 (17.4-20.4) @ 14:24
22	WURINDIA - field duplicate
24	
26	(27.0-30.0 St bgs) -5 creen
28	Slow rate: 300 min Turbidity: 97.9 NTUS vol. Arged: 5 31
	Page _ L of _ 3

PROJECT:	Former Wentsmith AFB	VAS	Boring ID: WURUS Ø19
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
32 <del>-</del>		_	
34-			
38			(37.0-40.0 st bgs)-screen flow rate: 250 min vol. Purged; 59al Turbidity: 937NTVs
4φ			WURII 537 @16:38
42 -			12-02-21
46			47.0-50.0ft bas
48			47.0-50.0ft bgs flow rate: 200 mL/min Vol purged: 6gal Turbidity: 1050 NTU
50 — - 57 —		-	ID: WUR11538 (1507)
54 			
56 — - 58 —	,		57.0-60.0 ft bgs Flow rate: 300 mL/min
G D	_		57.0-60.0 ft bgs  Flow rate: 300 mL/min  Vol. purged: 11 gal  Turbidity: >1100 NTU  ID: WUR11539 (1646)
64			LD. Volation of (1000)
66		_	Page Z of 3

PROJECT:	ner Wurtsmith AFB	VAS E	Boring ID: WURVSDI9
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
70-	600 at 70.0 ft 695		67.0-70.0ft bys  Flow rate: 300 mL/nin  Turbidity: 71100NTU  vol. purged: B gal  ID: WUR11540 (0930)
- +	GOD at 70.0 ft bys Reason S-Target depth rea for End C-sampling complet	ached .	
-			
-		-	
-		-	
		-	
-			

ROJECT:	Former wurtsmith Afts	Soi	1 Boring ID: ULASBI59
ORING LO	CATION: CATEBSP Sanitary sever		ND SURFACE ELEVATION AND DATUM:
	CONTRACTOR: ROCKWAPPI		STARTED: 11-30-21 DATE FINISHED: 11-30-21
RILLING N	011(21 109)	1	DEPTH: 16.0 Ft 145 TOTAL SAMPLES COLLECTED:
RILLING E	CA COPPODE	MEAS	URED DEPTH TO WATER: DEPTH OF SATURATED MEDIA:
	Greoprove		N/A A/A
AMPLING	METHOD:	LOGG	EDBY: U. Stambangh
		1	v. 5) 23 TV4((g))
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
-	Topsoil-Dark Brown Sandy silty	_	
2	SAND-Brown/Lt. Brown Fine to med	-	
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4-			
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13 -			-WURDGOID (1160) -EGLE Spit (5132111301100 WPS
+		11/1	
14	_	111	1-EGLE 5017 (5132111301100 WPS
, ,		1/1/4	3323 37. (32.
-		711.	
			Pageof_2_

PROJE		Former Wartsmith AFB	So	il Boring ID: WURSE159
DEPTH	(reet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
16	•	EOB at 16 OFT bas		
	-	Reason Starget depth reached sorend grown solvers sever bording complete		-
	-			
-				
	-			- - -
-				
-				-
	-			
				-
				Page

PROJECT:	Former wurtsmith AFB	Soil	Boring ID: 🖂	1R53161	Ф	
BORING LO	Former wurtsnith ARB CATGOSP: Sanitary sewer	GROUND SURFACE ELEVATION AND DATUM:				
ORILLING CO	ONTRACTOR: ROCKWOTER	DATE STARTED: 1 - 30-2			DATE FINISHED: 11-30-21	
ORILLING M	ETHOD: DIPPORT PUST	TOTAL	DEPTH: 16.0 Ft 645		TOTAL SAMPLES COLLECTED: \	
DRILLING E		MEAS	JRED DEPTH TO WATER:		DEPTH OF SATURATED MEDIA:	
			NIA	,	MA	
SAMPLING N	METHOD:	LOGG	EDBY: W. Stanb	angh		
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE		SAMPLE ID	Ds/Notes	
}	Topsoil-Dark Brown sondy silty SAND-Brn/Ltbrn Fine TO Med	-		,		
2 -						
4						
5		-				
7		_				
8						
9 -		-				
1/						
12	SAND-HBrn Fine					
13			-WURDEAH	(p950)	)	
	SAND-Brn Fine to Coarse		(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	4134	Page 1 of 2	

PROJECT:		Call Paring ID. 1110/				
F	ormer Wustemith AFB	Soi	I Boring ID: YURSBILD			
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes			
	EDZ at 16. PFt bys  Reason S-target depth reached for End I for sanitary sewer  borehole  -sampling complete		Page**L. of 2_			
			Page 2_of 2			

FORMER WURTSMITH AFB	VAS Boring ID: WURVS DIE	>			
BORING LOCATION: AIPET AIRCRAFT ARG	GROUND SURFACE ELEVATION AND DATUM:				
DRILLING CONTRACTOR: Ca5Lad?	DATE STARTED: (1-29-2) DATE FINISHED: (1-3¢	7-21			
DIPLY INC. FOLIPMENT	TOTAL DEPTH: TOTAL SAMPLES COLLECT				
DRILLING EQUIPMENT: GOPTOBE	MEASURED DEPTH TO WATER: DEPTH OF SATURATED N	∕IEDIA:			
SAMPLING METHOD:	LOGGED BY: W. Stanbaugh				
GENERAL LITHOLOGY DESCRIPTION	SAMPLE IDs/Notes				
	-				
3					
4					
-					
5					
6					
	- JUR5513				
7 -					
8 —					
9					
10					
11					
12					
13					
14					
	Page_\	of_5			

Former wurtsmith AFB		VAS	VAS Boring ID: JURUS OIL		
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes		
16 - 18 - 19 20 - 21 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31			-WUR11524		
31					

PROJECT:	Former Wartsmith AFB	VA	AS Boring ID: WYRVSDIL
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes
34 - 35 - 38 - 39 - 40 - 41 - 45 - 46 - 47		+	
49			WUR11523 (0831)  U7.5 NTU Sgal total purged  250 gal/min

	Former Muntsnith APB	VAS	Boring ID: WURVSDIG	
ОЕРТН (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE	SAMPLE IDs/Notes	
52 - 55 - 56 - 57 - 58 - 59 - 60 - 65 - 66 - 66 - 66 - 66 - 66 - 66	GENERAL LITHOLOGY DESCRIPTION	-	-WURILSZY (IDDY)  zoogal/min  IDZONTU  7gal purged	
68		-	JUK 1525	

PROJECT:	Former Wuntsmith AFB	VA:	S Boring ID: WURVS PLL
DEPTH (feet)	GENERAL LITHOLOGY DESCRIPTION	SAMPLE INTERVAL	SAMPLE IDs/Notes
-		-	
70-	Reason S-Basal day layer for End Pracked according to results from geologic boring and HPT - sampling complete	-	
	Reason C-Basal day layer +		
	For End ) reached according to results		
	- sampling complete	_	
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Project Name:
Wurtsmith RI EGLE Oversight

Site Location: Oscoda, MI **Project No.** 60514613

Photo No. Date: 11/30/21

Direction Photo Taken:

North

# Description:

Location: CAT605P Sanitary Sewer Line Boring #: WURSB160 5.0 ft offset from Sanitary Sewer

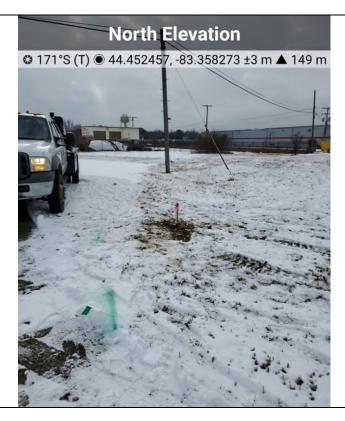


Photo No.

2

**Date:** 11/30/21

Direction Photo Taken:

Southwest

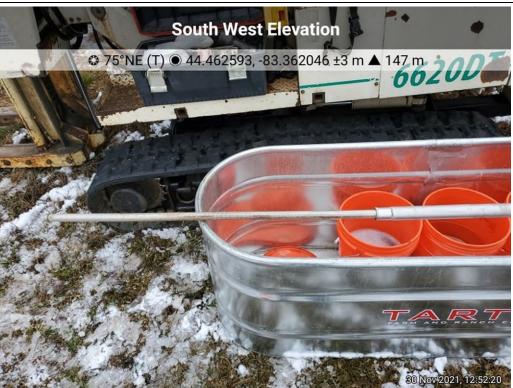
#### **Description:**

Location: Alert Aircraft

Area

Boring #: WURVS028 RockWater VAS sampling

screen





**Project Name:**Wurtsmith RI EGLE Oversight

Site Location: Oscoda, MI Project No. 60514613

Photo No. Date: 11/30/21
Direction Photo

Taken:

North

Description:

Location: Alert Aircraft

Area

Boring #: WURVS028 Depth to Water Check by

Aerostar

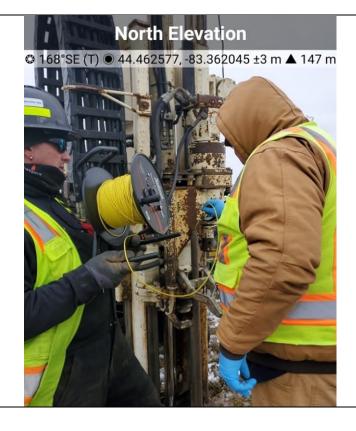


Photo No. Date: 12/01/21

Direction Photo Taken:

Southwest

Description:

Location: Alert Aircraft

Area

Boring #: WURSB023 Water Level Meter reading

by Aerostar





**Project Name:**Wurtsmith RI EGLE Oversight

Site Location: Oscoda, MI Project No. 60514613

Photo No. 5

**Date:** 12/01/21

Direction Photo Taken:

South

## **Description:**

Location: Alert Aircraft Area Boring #: WURSB023 Sample bowl decontamination.



Photo No. Date: 12/02/21

Direction Photo Taken:

North

#### Description:

Location: Alert Aircraft Area Boring #: WURSB164 14.0 to 16.0 ft bgs EGLE Split: SB2112021155WPS





**Project Name:**Wurtsmith RI EGLE Oversight

Site Location: Oscoda, MI **Project No.** 60514613

Photo No.

**Date:** 12/02/21

Direction Photo Taken:

West

### **Description:**

Location: Alert Aircraft

Area

Boring #: WURSB165 Water Level Meter reading

by Aerostar



Photo No. Date: 12/02/21

Direction Photo Taken:

Southwest

#### Description:

Location: Alert Aircraft Area Boring #: WURSB165

Boring #: WURSB16 Sample bowl decontamination.





**Project Name:**Wurtsmith RI EGLE Oversight

Site Location: Oscoda, MI **Project No.** 60514613

Photo No.

**Date:** 12/02/21

Direction Photo Taken:

Northwest

## Description:

Location: Alert Aircraft Area

Boring #: WURVS019 Cascade pulling casing to close sample screen.



Photo No.

**Date:** 11/30/21

Direction Photo Taken:

Northeast

#### Description:

Boring #: WURVS020 18.0 to 21.0 ft bgs Aerostar VAS sample: WUR11540





**Project Name:**Wurtsmith RI EGLE Oversight

Site Location: Oscoda, MI Project No. 60514613

Photo No. Date: 11/30/21

Direction Photo Taken:

West

**Description:** 

Boring #: WURVS020 Borehole site photo



Photo No. Date: 11/30/21

Direction Photo Taken:

Northeast

Description:

Boring #: WURVS020 EGLE Split: GW2111301243JW





**Project Name:**Wurtsmith RI EGLE Oversight

Site Location: Oscoda, MI Project No. 60514613

Photo No. Date: 11/30/21

Direction Photo Taken:

Southwest

**Description:** 

Boring #: WURVS019 Borehole site photo

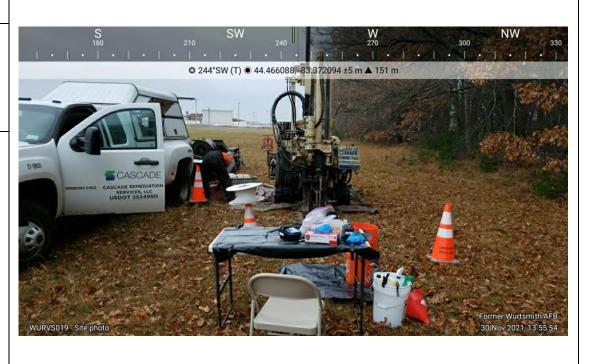


Photo No. Date: 12/01/21

Direction Photo Taken:

Northeast

**Description:** 

Boring #: WURVS032 Aerostar used water level meter to tag Depth to Water as 14.6 ft bgs





**Project Name:**Wurtsmith RI EGLE Oversight

Site Location: Oscoda, MI **Project No.** 60514613

Photo No. Date: 12/02/21

Direction Photo Taken:

Northeast

## **Description:**

Location: BOA Boring #: WURVS032 Borehole site photo



Photo No. Date: 12/02/21

Direction Photo Taken:

Northeast

#### **Description:**

Location: BOA
Boring #: WURVS027
Aerostar used water level
meter to tag Depth to
Water as 18.2 ft bgs





Project Name:Site Location:Project No.Wurtsmith RI EGLE OversightOscoda, MI60514613

Photo No. Date: 12/02/21

Direction Photo Taken:

North

Description:

Location: BOA Boring #: WURVS027 Aerostar takes VAS

sample

