

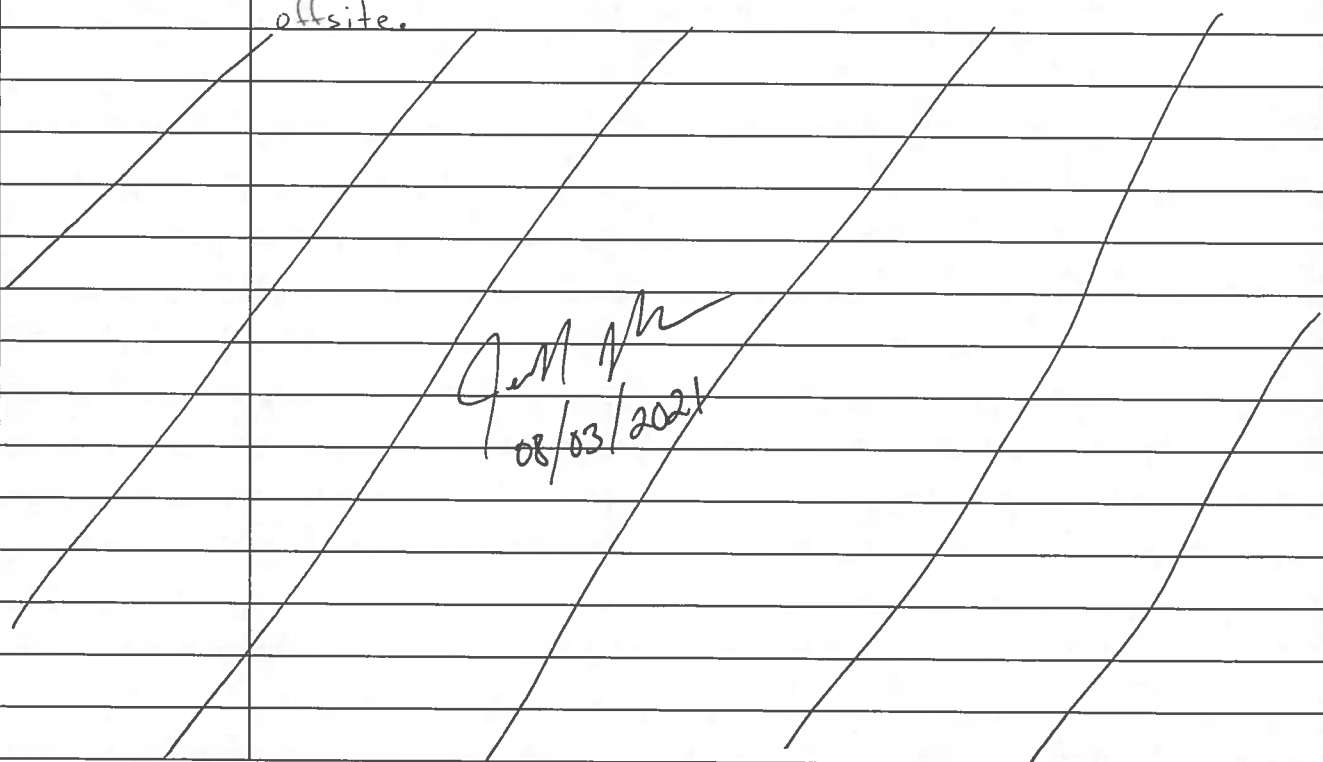
Daily Field Log

Site Name: Former WAFB
 Date: 08/03/2021
 Project Number: 60514613
 Field Staff: J. Morse

| Time | Observation/Note |
|-------|--|
| 07:20 | On site at Aerostar field office. Aerostar conducting morning meeting and health + safety. |
| 07:30 | Aerostar field staff calibrating field equipment. |
| 08:25 | Aerostar field teams mobilize to representative sampling locations. AECOM w/ sampling team going to airfield. |
| 08:50 | DWAA does not have personnel to escort contractors on airfield today. Aerostar field manager re-organizing sampling schedule. |
| 10:00 | Arrive at SS08-MW5. Aerostar sampling team preparing to sample. |
| 10:25 | Moving w/ Aerostar sampling team to OT16 monitoring wells. |
| 10:35 | Aerostar setting up on OT16-MW13. |
| 10:45 | Aerostar sampling team waiting on well completion data to properly set sample tubing at middle of well screened zone. |
| 11:15 | Aerostar continue sampling procedure on OT16-MW13. |
| 11:45 | Aerostar having issues w/ pump and pulling water from well. Static water level: 25.02-ft btlc. |
| 12:00 | Andrea Stoway on site on site. Purdue University at end of road conducting field activities for their study. |
| 12:21 | Aerostar fixed pump issue and has begun purging well. Pumping = 100 ml/min |
| 12:47 | Aerostar completed well purge. Sample ID: WUR04250 (Aerostar) GW2108031247JM (WUR04250 ^{EGLE}). Split sample collected |
| 13:15 | AECOM off-site to purchase ice for sampler (split) |
| 13:40 | AECOM on-site. Aerostar @ office for bathroom break |
| 13:50 | Aerostar setting up on OT16-MW14. |
| 13:58 | DTW = 27.01-ft btlc. Aerostar setting tubing to 55 ft btlc in attempt to contain |

Daily Field Log

Site Name: Former Wurtsmith AFB
 Date: 08/03/2021
 Project Number: _____
 Field Staff: J. Morse

| Time | Observation/Note |
|---|--|
| 14:13 | Initiat purge Rate = 350 ml/min. Aerostar |
| 14:21 | Slight drawdown → 27.01 to 27.04 (Aerostar) |
| 14:36 | |
| 14:40 | Aerostar sample + EGLE split collected. Sample IDs: GW2108031440JM (EGLE), WUR04251 (Aerostar) |
| 14:55 | Aerostar setting up on DT16 - MW15 |
| 15:05 | DTW Aerostar measured DTW = 26.80 ft btoe |
| 15:25 | Begin Aerostar begin purge time. Flow rate = 300 ml/min |
| 15:49 | Aerostar called a lightning standown. Lightning strikes within 10 miles of worksite. All personnel have moved into their vehicles. |
| 16:19 | Aerostar has stopped to workday due to continued storms in the area. Aerostar is demobilizing their equipment and heading back to field office. Aecom offsite. |
|  <p style="font-size: 2em; font-family: cursive;">J. Morse 08/03/2021</p> | |

Daily Field Log

Site Name: Former Wurtsmith AFB
 Date: 08/04/2021
 Project Number: ~~W88K124002~~ 6.0.5.13614
 Field Staff: J. Morse

| Time | Observation/Note |
|-------|---|
| 07:15 | Onsite @ Aerostar field office. Aerostar crews calibrating sampling equipment. |
| 08:00 | Leave field office with crew heading to airfield wells. |
| 08:23 | Aerostar setting up on W409D. |
| 09:13 | Aerostar completed purge of W409D. Step |
| 09:15 | Sample collected. Sample ID: GW2108040915JM (EGLE), WUR02053 (Air Force) |
| 09:20 | Aerostar mobilize to next location. OWAA escort AECOM off airfield. |
| 10:00 | At DT16-MW15 to collect split sample. Aerostar crew already setting up on well. |
| 10:20 | Aerostar began purge. Pump rate = 150 ml/min |
| 10:48 | Aerostar sample time. Sample Sample ID: GW2108041048JM (EGLE), WUR04252 (Air Force) |
| 11:05 | Aerostar crew demobilizing @ DT16-MW15. AECOM to move over with Aerostar & crew sampling @ LF-27. |
| 11:25 | At LF-27 MW7D. Aerostar crew already purging well. WUR04244 (Air Force) GW2108041432JM (EGLE) |
| 11:30 | AECOM left LF-27 MW7D. Aerostar to collect sample once well stabilizes. ORP and turbidity were not stable for the required 4 consecutive readings. Aerostar sampling team to continue purge until all parameters stabilize. |
| 13:20 | Headed over to LF-26 MW1 with Aerostar sample crew to collect sample. LF-26 MW1 had been sampled in the previous sampling event, but the sample had not been collected less than 48 hours after well development. |
| 13:50 | Began well purge. Flow Flow-rate 350 ml/min. |
| 14:31 | Aerostar completed purge of well. Sample team and is starting sampling. Sample IDs: GW2108041431JM (EGLE) WUR10095 (Air Force) |

Daily Field Log

Site Name: Former Wurtsmith AFB
Date: 08/04/2021
Project Number: 60514613
Field Staff: J. Morse

| Time | Observation/Note |
|------------------------|---|
| 14:46 | Aerostar crew to mobilize to OT24. Aercom to head over to LF-27 to see if Aerostar crew there ^{has} is completed sampling LF-27 MW7D. |
| 15:00 | Aerostar sample crew leaving LF-27 area upon arrival. They collected Air Force and EGLE split sample @ 1432. Heading back to Aerostar field office to process sample. |
| 15:45 | Complete Aerostar completed sampling, sans crew @ OT24 sampling last well of the day (not a well EGLE requested split sample). Off-site. |
| J. Morse 08/04/2021 | |

Daily Field Log

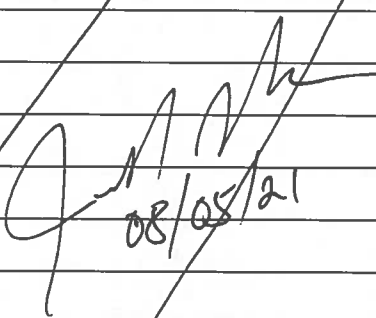
Site Name: Former Wurtsmith AFB
 Date: 08/05/2021
 Project Number: 60514613
 Field Staff: J. Morse

| Time | Observation/Note |
|-------|--|
| 07:15 | Arrive @ Aerostar field office. Aerostar crews calibrating sampling equipment. |
| 07:50 | AECOM to go with Aerostar crew to OT24 well locations. Aerostar will be developing OT24-P15D + P15S today. Aerostar to redevelop OT24 P15 Aerostar plans to sample OT24-P15D + P15S on Saturday and or Monday. Aecom to find alternate sample locations to collect split sample. |
| 08:00 | @ OT24-PZ16. Aerostar is using a bladder pump on all the OT24 wells. Depth to water at all three wells > 35 ft bgs, well beyond the capability of a peristaltic. Pumping rate @ 12 for OT24-PZ16 currently ~ 80 ml/min |
| 09:55 | Aerostar completed purge of well |
| 10:02 | OT24-PZ16 sample time. Sample IDs: WUR06594 (Air Force) GW2108051002JM (EGLE) |
| 10:30 | Aerostar crew heading to field office to drop samples off and re-supply some equipment. |
| 11:00 | Aerostar crew setting up on OT24- PZ15 PZ15S |
| 12:04 | Aerostar crew completed purging well, and is sampling. Sample IDs: GW2108051204JM (EGLE), WUR06593 (Air Force) |
| 12:40 | Aerostar crew break to cool down in air conditioning and take lunch. |
| 13:00 | Aerostar is setting up on OT24-PZ15D. Crew acquired a small diameter water level meter to monitor water level during well purging. |
| 13:20 | Aerostar field manager informed me one of their crew changed their scheduled wells (due to well development activities going faster than anticipated). Crew is setting up on H181D. Well was developed on Tuesday (08/03). → Next page. |

H181D

Daily Field Log

Site Name: Former Wurtsmith AFB
 Date: 08/05/2021
 Project Number: 60514613
 Field Staff: J. Morse

| Time | Observation/Note |
|--|---|
| 14:30 | H181D purge complete. Sample IDs: GW2108051430JM (EGLE) WURO5143 (Air Force) |
| 14:48 | Aerostar crew demobe sampling equipment, and are setting up to develop H181S for a third (3) time. Well has only |
| 14:55 | H181S has only recovered 60% from last development. Aerostar team to return later, once well has recovered 100%. AECOM over to field office. |
| 15:40 | Aerostar crew sampling OT24-PZ15D returned to field office and transferred EGLE split sample to AECOM. Sample time was 1503. Sample IDs: GW2108051503JM (EGLE), WURO6592 (Air Force). |
| 15:55 | AECOM collected Field Blank. Sample ID: FB FB2108051555JM. |
| 16:20 | AECOM off-site. |
|  08/05/21 | |

Groundwater Sampling

| | | | | | | |
|--------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------------|--|--|
| Site: | Former Wurtsmith AFB | | Document: | Monitoring well groundwater sampling | | |
| Date: | 08/03 - 08/04 2021 | | Activity: | | | |
| MDEQ: | - | | | | | |
| USACE: | - | | | | | |
| USACE Contractor: | Morgan Brady Strissel + Sanders | Justin Tommy Vojak + Mak | Kyle + Caleb Paulsen Eldridge | } ← Aerostar Sampling teams | | |

| Well ID | Groundwater Sampling Collection Method | Stabilization Parameters Monitored (Every 3 to 5 minutes) | Stabilization Parameter Notes | Drawdown Monitored | Notes | |
|----------------|--|---|--|----------------------------------|--|--|
| SS08-MW5 | Low Flow w/ Peristaltic | Yes | Four (4) consecutive readings stable reading prior to sampling | Yes | No Split - Sample time 10:00 | |
| OT16-MW13 | Low Flow w/ Peristaltic → 100 ml/min | Yes | Four consecutive stable readings prior to sampling | Yes | Sample WUR04250 (Air Force) | |
| OT16-MW14 | Low Flow w/ Peristaltic → 350 ml/min | Yes | Four (4) consecutive stable readings prior to sampling | Yes | split collected → sample IDs: GW2108031247JM | |
| OT16-MW15 | Low Flow w/ Peristaltic | Well Purge stopped prematurely due to lightning stop work | | | | |
| W409D | Low flow w/ peristaltic → 100 ml/min | Yes | Four (4) consecutive stable readings prior to sampling. | Yes | EGLE Split sample collected | |
| OT16-MW15 | Low flow w/ peristaltic → 150 ml/min | Yes | Four (4) consecutive stable reading prior to sampling | Yes | EGLE split sample collected | |
| LF-27 MW7D | Low flow w/ peristaltic → 300 ml/min | Yes | Four (4) consecutive reading prior to sampling | Yes | EGLE split sample collected | |
| LF-26 MW1 | Low flow w/ peristaltic → 350 ml | Yes | Four consecutive stable readings prior to sampling | Yes | EGLE split sample collected | |
| Note 1 | Split sample IDs: OT16-MW13 | | WUR04250 (Air Force) | OT16-MW14-GW2108031440JM (EGLE) | | |
| Note 2 | W409D-GW2108040915 (EGLE) | | WUR02053 (Air Force) | OT16-MW15-GW2108041048JM (EGLE) | | |
| Note 3 | LF-27 MW7D-GW2108041432JM (EGLE) | | WUR04252 (Air Force) | LF-27 MW7D-GW2108041432JM (EGLE) | | |
| Note 4: | LF-26 MW1 GW2108041431JM (EGLE) | | WUR10095 (Air Force) | | | |

Groundwater Sampling

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|--------------------------|---------------------------------|------------------|--|
| Site: | Former Wurtsmith AFB | Document: | |
| Date: | 08/05 2021 | Activity: | Groundwater sampling of existing monitoring wells. |
| MDEQ: | - | | |
| USACE: | - | | |
| USACE Contractor: | Morgan Brady Strissel + Sanders | | |

| Well ID | Groundwater Sampling Collection Method | Stabilization Parameters Monitored (Every 3 to 5 minutes) | Stabilization Parameter Notes | Drawdown Monitored | Notes |
|------------|--|---|---|---|--|
| OT24-PZ16 | Low flow w/ bladder pump → 80 ml/min | Yes | Four (4) consecutive stable readings prior to sampling | No → casing only Yes 1" dia | EGLE split sample collected |
| OT24-PZ15S | Low flow w/ bladder pump → 70 ml/min | Yes | Four (4) consecutive stable readings prior to sampling | No → casing only 1" dia | EGLE split sample collected |
| H181D | Low flow w/ Peristaltic → 300 ml/min | Yes | Four (4) consecutive stable readings prior to sampling. | Yes | EGLE split split sample collected |
| OT24-PZ15D | Low flow w/ bladder pump | AECOM left | location during purge activities. | | EGLE split sample collected |
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| Note 1 | Split Sample IDs: OT16-PZ16 | | WUR06594 (Air Force) | OT24- PZ15S | WUR06593 (Air Force) |
| Note 2 | WUR05143 (Air Force) | | GW2108051002JM (EGLE) | | GW2108051204JM (EGLE) |
| Note 3 | H181D GW2108051430JM (EGLE) | | WUR06592 | | OT24-PZ15D-GW2108051503JM |
| Note 4: | | | | | |

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|---|-------------------------------------|--------------------------------|
| Project Name: Wurtsmith RI EGLE Oversight | Site Location: Oscoda, MI | Project No. 60514613 |
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|---|--------------------------|---|
| Photo No. 1 | Date: 08/03/21 | <p>Date & Time: Tue, Aug 03, 2021, 10:00:43 EDT Position: +044.447769° / -083.362510° (±16.4ft) Altitude: 637ft (±19.7ft) Datum: WGS-84 Azimuth/Bearing: 336° N24W 5973mils True (±14°) Elevation Angle: -12.4° Horizon Angle: +00.4° Zoom: 1.0X SS08-MW5 (1)</p>  |
| Direction Photo Taken: Northwest | | |
| Description: Groundwater Sampling @ SS08-MW5 (1) | | |

| | | |
|---|--------------------------|--|
| Photo No. 2 | Date: 08/03/21 | <p>Date & Time: Tue, Aug 03, 2021, 10:07:20 EDT Position: +044.447770° / -083.362469° (±32.8ft) Altitude: 619ft (±52.5ft) Datum: WGS-84 Azimuth/Bearing: 346° N16W 6116mils True (±14°) Elevation Angle: -15.0° Horizon Angle: +00.9° Zoom: 1.0X SS08-MW5 (2)</p>  |
| Direction Photo Taken: North | | |
| Description: Groundwater Sampling @ SS08-MW5 (2) | | |

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|---|-------------------------------------|--------------------------------|
| Project Name: Wurtsmith RI EGLE Oversight | Site Location: Oscoda, MI | Project No. 60514613 |
|---|-------------------------------------|--------------------------------|

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|---|--------------------------|
| Photo No. 3 | Date: 08/03/21 |
| Direction Photo Taken: South | |
| Description: Groundwater Sampling @ OT16-MW13 (1) | |



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|---|--------------------------|
| Photo No. 4 | Date: 08/03/21 |
| Direction Photo Taken: Southeast | |
| Description: Groundwater Sampling @ OT16-MW13 (2) | |



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|---|-------------------------------------|--------------------------------|
| Project Name: Wurtsmith RI EGLE Oversight | Site Location: Oscoda, MI | Project No. 60514613 |
|---|-------------------------------------|--------------------------------|

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| Photo No. 5 | Date: 08/03/21 |
| Direction Photo Taken: East | |
| Description: Groundwater Sampling @ OT16-MW14 (1) | |



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|---|--------------------------|
| Photo No. 6 | Date: 08/03/21 |
| Direction Photo Taken: Northeast | |
| Description: Groundwater Sampling @ OT16-MW14 (2) | |



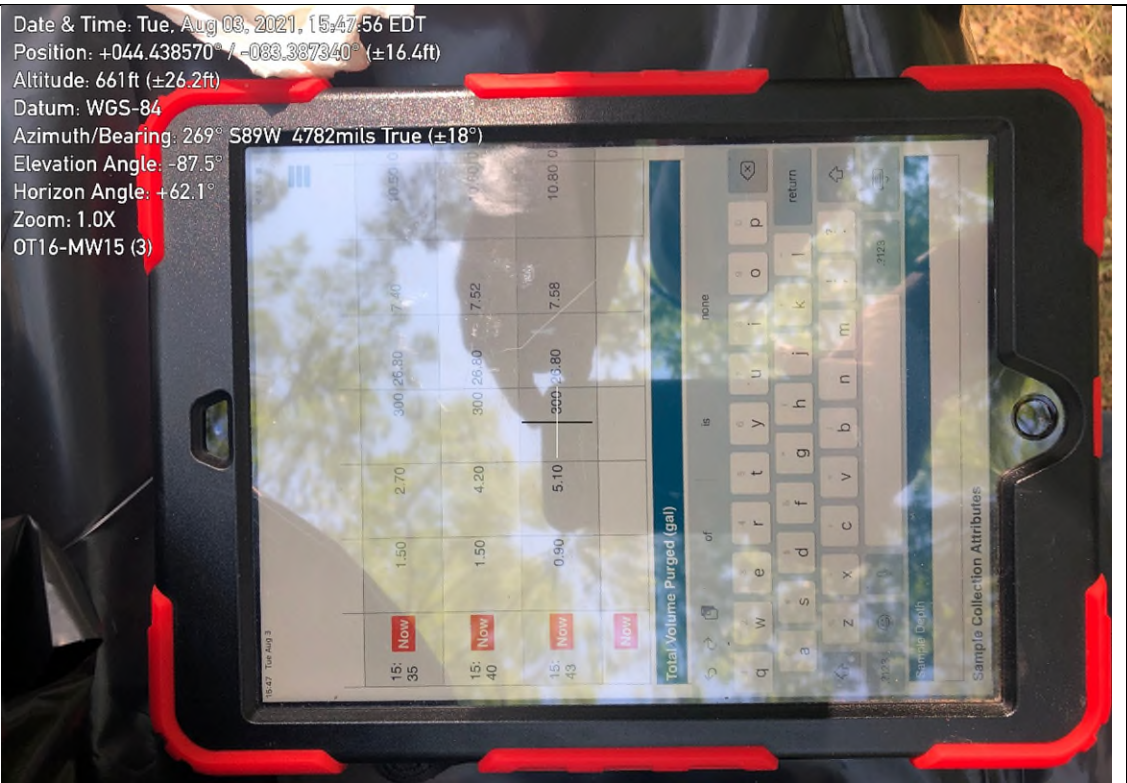
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|---|-------------------------------------|--------------------------------|
| Project Name: Wurtsmith RI EGLE Oversight | Site Location: Oscoda, MI | Project No. 60514613 |
|---|-------------------------------------|--------------------------------|

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|---|--------------------------|
| Photo No. 7 | Date: 08/03/21 |
| Direction Photo Taken: East | |
| Description: Groundwater Sampling @ OT16-MW15 (1) | |



Date & Time: Tue, Aug 03, 2021, 15:27:16 EDT
 Position: +044.438659° / -083.387543° (±98.4ft)
 Altitude: 604ft (±78.7ft)
 Datum: WGS-84
 Azimuth/Bearing: 107° S73E 1902mils True (±13°)
 Elevation Angle: -40.6°
 Horizon Angle: +00.6°
 Zoom: 1.0X
 OT16-MW15 (1)

| | |
|---|--------------------------|
| Photo No. 8 | Date: 08/03/21 |
| Direction Photo Taken: West | |
| Description: Aerostar field form for groundwater sampling @ OT16-MW15 (3) | |



Date & Time: Tue, Aug 03, 2021, 15:47:56 EDT
 Position: +044.438570° / -083.387340° (±16.4ft)
 Altitude: 661ft (±26.2ft)
 Datum: WGS-84
 Azimuth/Bearing: 269° S89W 4782mils True (±18°)
 Elevation Angle: -87.5°
 Horizon Angle: +62.1°
 Zoom: 1.0X
 OT16-MW15 (3)

| | | | | | | | | |
|-------|-----|------|------|------|-------|-------|-------|-------|
| 15:35 | Now | 1.50 | 2.70 | 5.00 | 26.30 | 17.40 | 10.50 | 10.80 |
| 15:40 | Now | 1.50 | 4.20 | 3.00 | 26.60 | 7.52 | 7.60 | 10.80 |
| 15:43 | Now | 0.90 | 5.10 | 3.00 | 3.80 | 7.58 | 7.58 | 10.80 |
| | | | | | | | | |

Total Volume Purged (gal)

Sample Depth

Sample Collection Attributes

| | | |
|---|-------------------------------------|--------------------------------|
| Project Name: Wurtsmith RI EGLE Oversight | Site Location: Oscoda, MI | Project No. 60514613 |
|---|-------------------------------------|--------------------------------|

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|--|--------------------------|--|
| Photo No. 9 | Date: 08/04/21 | <p>Date & Time: Wed, Aug 04, 2021, 12:11:13 EDT Position: +044.443330° / -088.393571° (±32.8ft) Altitude: 605ft (±157.5ft) Datum: WGS-84 Azimuth/Bearing: 258° S78W 4587mils True (±20°) Elevation Angle: -14.0° Horizon Angle: -00.2° Zoom: 1.0X LF-27 MW7D (1)</p>  |
| Direction Photo Taken: East | | |
| Description: Groundwater Sampling @ LF-27 MW7D (1) | | |

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|--|--------------------------|--|
| Photo No. 10 | Date: 08/04/21 | <p>Date & Time: Wed, Aug 04, 2021, 12:34:35 EDT Position: +044.443555° / -088.393264° (±32.8ft) Altitude: 622ft (±19.1ft) Datum: WGS-84 Azimuth/Bearing: 222° S42W 3947mils True (±17°) Elevation Angle: -12.9° Horizon Angle: +00.3° Zoom: 1.0X LF-27 MW7D (2)</p>  |
| Direction Photo Taken: Southwest | | |
| Description: Groundwater Sampling @ LF-27 MW7D (2) | | |

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|---|-------------------------------------|--------------------------------|
| Project Name: Wurtsmith RI EGLE Oversight | Site Location: Oscoda, MI | Project No. 60514613 |
|---|-------------------------------------|--------------------------------|

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| Photo No. 11 | Date: 08/05/21 |
| Direction Photo Taken: Southwest | |
| Description: Groundwater Sampling @ OT24-PZ16 (1) | |



Date & Time: Thu, Aug 05, 2021, 10:07:17 EDT
Position: +044.444339° / -083.360879° (±541.4ft)
Altitude: 616ft (±56.4ft)
Datum: WGS-84
Azimuth/Bearing: 234° S54W 4160mils True (±19°)
Elevation Angle: -11.7°
Horizon Angle: -00.2°
Zoom: 1.0X
OT24-PZ16 (1)

| | |
|--|--------------------------|
| Photo No. 12 | Date: 08/05/21 |
| Direction Photo Taken: North | |
| Description: Groundwater Sampling @ OT24-PZ15 S&D (1) | |



Date & Time: Thu, Aug 05, 2021, 11:23:16 EDT
Position: +044.444480° / -083.359667° (±32.8ft)
Altitude: 624ft (±39.4ft)
Datum: WGS-84
Azimuth/Bearing: 356° N04W 6329mils True (±12°)
Elevation Angle: -64.6°
Horizon Angle: +08.8°
Zoom: 1.0X
OT24-PZ15 S&D (1)

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|---|-------------------------------------|--------------------------------|
| Project Name: Wurtsmith RI EGLE Oversight | Site Location: Oscoda, MI | Project No. 60514613 |
|---|-------------------------------------|--------------------------------|

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|--|--------------------------|
| Photo No. 13 | Date: 08/05/21 |
| Direction Photo Taken: West | |
| Description: Groundwater Sampling @ H181D (1) | |

