

TRANSMITTAL LETTER



To:
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Warren, Michigan 48092-2793
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From:
Megan Meckley

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Copies:
Colleen Liddell, Ford EQO
Chuck Pinter, Ford EQO

Date:
July 31, 2025

Subject:
ResAp-Interim Response
Activity Plan ZVI Injections
Quarterly Update Letter

Arcadis Project No.:
30251157

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SUBJECT

ResAP-Interim Response Activity Plan ZVI Injections
Quarterly Update Letter

TO

Mr. Erik Gurshaw, EGLE

DATE

July 31, 2025

OUR REF

30251157

COPIES TO

Ms. Colleen Liddell, Ford
Mr. Chuck Pinter, Ford

NAME

Megan Meckley – Arcadis of Michigan, LLC

On behalf of Ford Motor Company (Ford), this letter has been prepared by Arcadis of Michigan, LLC (Arcadis) for the Livonia Transmission Plant (LTP) site (the Site), located on **Figure 1**. This letter complies with the following Response Activity Plan (ResAP) and EGLE approval letter:

- ResAP for Interim Response Activities – Property Boundary Zero Valent Iron, dated June 30, 2023
- *Notice of Conditional Approval of Response Activity Plan – Interim Response Activities for Zero Valent Iron Injections at the Ford – Livonia Transmission Plant*, dated July 20, 2023

The performance groundwater sampling outlined below was completed in accordance with the approved ResAP for Interim Response Activities (IRA).

Performance Groundwater Sampling

Quarterly zero valent iron (ZVI) performance groundwater sampling was completed on May 9th, 2025, during the second quarter 2025 (2Q 2025) on-site and off-site groundwater sampling event. Groundwater samples were collected from monitoring wells MW-35, MW-43, MW-52, MW-211S, MW-212S, MW-213S, MW-234 and MW-235 (collectively referred to as the ZVI performance monitoring network; **Figure 2**)

Each monitoring well was sampled using a peristaltic pump and low-flow sampling techniques in accordance with the project Quality Assurance Project Plan. Groundwater samples were collected into laboratory-supplied bottles and were submitted on ice to Eurofins Laboratories (Eurofins) in Barberton, Ohio for laboratory analysis. All samples were analyzed for the seven constituents of concern (COCs) for the Site: 1,1-dichloroethene (DCE), cis-1,2-DCE, trans-1,2-DCE, tetrachloroethene (PCE), trichloroethene (TCE), and vinyl chloride (VC) via United States Environmental Protection Agency (USEPA) Method 8260D and 1,4-dioxane via USEPA Method 8260D-Selected Ion Monitoring (SIM).

Groundwater analytical results and low-flow sampling parameters are provided in **Table 1**, with the data compared to Michigan Part 201 Non-Residential Generic Cleanup Criteria (EGLE 2023). Monitoring data collected from the ZVI performance monitoring well network during the third quarter 2023 groundwater sampling event were used for the baseline data included in **Table 1**. Low-flow groundwater sampling logs are included in **Attachment 1**. All site-specific compounds (1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and 1,4-dioxane) either were

Mr. Erik Gurshaw
Michigan Department of Environment, Great Lakes, and Energy
July 31, 2025

not detected at concentrations above the reporting limits or were detected at concentrations below Part 201 Non-Residential Generic Cleanup Criteria for 2Q 2025 with the exception of vinyl chloride.

During 2Q 2025, the vinyl chloride concentration at all monitoring wells from the 2Q 2025 ZVI groundwater sampling event were below the performance objective (Part 201 Non-Residential Drinking Water Criteria) of 2.0 µg/L, with the exception of MW-235 (2.4 µg/L). This concentration is the lowest historically observed for MW-235 and is below both the September 2023 baseline result of 11 ug/L and historical high of 12 ug/L identified in November 2023.

Proposed Schedule

Future performance monitoring will be completed in accordance with the ResAP IRA. The third quarter 2025 (3Q 2025) performance monitoring event is scheduled to be completed in August 2025. The next quarterly update letter will summarize the results of the 3Q2025 sampling event and will be submitted by October 31st, 2025.

Enclosures:

Table 1 – ZVI Performance Monitoring Groundwater Analytical Data

Figure 1 – Site Location Map

Figure 2 – Site Layout

Attachment 1 – Groundwater Sampling Logs

Table

Location:	Unit	Michigan Non-Residential Drinking Water Criteria	MW-35								MW-43								MW-52								
Date:			8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	
Semi-volatile Organic Compounds (SVOCs)																											
1,4-Dioxane	µg/L	350	3.4	4.0	3.0	4.5 B	3.3	3.7	3.9	3.9	2.5	3.4	2.5	4.7 B	4.2	3.3	4.7	4.7	1.8 J	2.6	2.7	3.3 B	2.8	2.7	2.4	3.1	
Volatile Organic Compounds (VOCs)																											
1,1-Dichloroethene	µg/L	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethene	µg/L	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	µg/L	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethene	µg/L	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/L	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl chloride	µg/L	2.0	1.6	1.5	2.2	0.90 J	0.82 J	0.88 J	0.99 J	0.64 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	1.5	0.90 J	1.2 J	1.4	1.4	0.86 J	1.1	

Location:	Unit	Michigan Non-Residential Drinking Water Criteria	MW-211S								MW-212S								MW-213S								
Date:			8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	
Semi-volatile Organic Compounds (SVOCs)																											
1,4-Dioxane	µg/L	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Volatile Organic Compounds (VOCs)																											
1,1-Dichloroethene	µg/L	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethene	µg/L	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.6	2.8	1.9	0.89 J	2.0	2.6	1.2	1.4	0.58 J	1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.61 J	0.48 J	< 1.0
Tetrachloroethene	µg/L	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
trans-1,2-Dichloroethene	µg/L	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.53 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Trichloroethene	µg/L	5.0	< 1.0	0.52 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Vinyl chloride	µg/L	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.82 J	1.0	0.84 J	< 1.0	0.77J	< 1.0	< 1.0	0.54 J	0.48 J	1.1	0.73 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Location:		Michigan Non-Residential Drinking Water Criteria	MW-234								MW-235							
Date:	Unit		9/18/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	9/18/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025
Semi-volatile Organic Compounds (SVOCs)																		
1,4-Dioxane	µg/L	350	< 2.0	< 4.0	<2.0	1.0 J B	<2.0	<2.0	<2.0	<2.0	< 2.0	0.89 J	<2.0	1.1 J B	<2.0	<2.0	1.5 J	<2.0
Volatile Organic Compounds (VOCs)																		
1,1-Dichloroethene	µg/L	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	2.0	2.3	2.5	2.3	1.9	1.2	1.9
Tetrachloroethene	µg/L	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	< 1.0	< 1.0	< 1.0	< 1.0	0.46 J	0.48 J	< 1.0	< 1.0	11	12	8.7	4.5	6.1	5.3	3.1	2.4

Location:	Unit	MW-35								MW-43								MW-52							
Date:		8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025
Low Flow Sampling Parameters																									
Dissolved Oxygen	mg/L	0.15	3.30	0.10	0.05	0.19	0.34	0.11	0.21	1.19	0.10	1.57	0.21	0.07	0.30	0.21	4.21	0.00	0.26	0.98	0.24	0.16	0.26	0.18	0.34
ORP	mV	-243.9	-168.3	93	85.2	-120.8	-212.6	135.3	-216.8	-152.7	-142.4	-106.9	-185.0	-205.2	-154.0	-165.40	49.30	-132.1	-120.7	-75.4	103.3	-199.2	-121.1	-116.5	-107.8
pH	s.u.	7.73	7.61	7.72	7.65	7.71	7.9	7.67	7.41	7.62	7.74	7.69	7.65	7.71	7.61	7.76	7.63	7.22	7.27	7.27	7.18	7.21	7.16	7.27	7.35
Temperature	°C	16.7	14.0	12.9	15.6	18.9	15.7	11.0	14.1	17.0	16.1	11.2	17.6	18.5	16.7	10.80	14.20	16.5	16.1	11.2	20.0	18.2	16.3	10.9	11.9
Specific Conductivity	mS/cm	4.74	2.95	5.3	8.75	4.01	2.46	3.54	4.85	9.62	7.52	7.61	7.10	5.92	6.74	4.71	4.10	7.00	6.14	6.65	0.05	7.29	7.34	6.81	8.17
Turbidity	NTU	11.28	8.93	24.3	27.90	3.33	1.25	40.90	27.90	8.30	21.30	42.70	3.08	0.02	8.52	11.90	4.00	4.06	3.23	63.60	34.00	1.01	0.02	1.29	19.40



Location:	Unit	MW-211S								MW-212S								MW-213S							
Date:		8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025
Low Flow Sampling Parameters																									
Dissolved Oxygen	mg/L	0.14	0.25	0.28	1.24	0.11	0.26	0.32	0.45	1.48	0.16	0.54	1.23	0.09	0.22	0.40	0.65	0.18	0.36	0.21	0.64	0.14	0.18	0.09	0.29
ORP	mV	31.3	64.8	185.7	-43.7	-102.4	87.0	8.50	-3.90	-2.2	-167.3	90.5	-29.4	-85.2	-34.3	-16.80	-68.10	-20.7	-201.0	79.8	39.4	-98.5	-51.5	-58.80	-66.90
pH	s.u.	7.40	7.34	7.38	7.36	7.30	7.16	7.50	7.20	7.19	7.12	7.27	7.13	7.15	7.15	7.39	7.18	7.12	7.11	7.23	7.11	7.27	7.15	7.52	7.16
Temperature	°C	19.4	16.2	9.6	23.7	21.5	17.0	8.20	13.80	19.4	15.8	10.9	21.0	21.4	17.0	8.90	13.30	20.4	17.6	11.9	21.5	23.2	16.2	8.80	12.40
Specific Conductivity	mS/cm	7.29	5.56	7.08	8.78	4.4	6.57	5.52	8.77	7.48	8.32	7.06	6.93	7.69	7.07	6.92	6.16	7.76	7.05	8.06	8.89	6.82	5.99	5.39	5.83
Turbidity	NTU	2.28	2.99	1.74	9.20	5.17	3.51	1.68	0.48	0.02	1.67	2.19	28.60	0.02	2.07	1.22	1.92	0.40	3.86	1.65	27.10	2.71	1.67	1.72	0.02

Location:		MW-234								MW-235								
Date:		9/18/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	9/18/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	5/9/2025	
Low Flow Sampling Parameters																		
Dissolved Oxygen	mg/L	0.06	0.06	2.22	1.13	0.01	0.02	0.01	0.02	0.14	5.00	5.80	0.05	0.09	0.17	0.10	0.24	
ORP	mV	-255.2	-323.3	-274.3	-277.3	-405.4	-100.4	-171.4	-239	-61.9	-119.6	-63.1	-89.1	-177.9	-260.5	-69.8	-120.7	
pH	s.u.	10.04	10.03	10.01	9.93	9.76	9.97	10.16	9.68	7.10	7.16	7.11	7.14	7.22	7.57	7.45	7.17	
Temperature	°C	18.7	17.2	11.3	16.5	20.1	15.8	10.3	13	17.6	17.2	12	16.0	18.6	16.4	10.8	13.5	
Specific Conductivity	mS/cm	8.09	8.12	10.52	7.08	6.95	6.2	5.64	7.4	7.86	7.32	12.11	8.90	8.10	7.29	7.03	7.86	
Turbidity	NTU	5.21	2.30	0.55	0.02	0.02	4.23	14.70	0.02	1.22	62.10	103.00	0.02	1.74	3.51	1.62	3.57	

Notes:
Results are compared to EGLE Part 201 Generic Cleanup Criteria, October 2023.

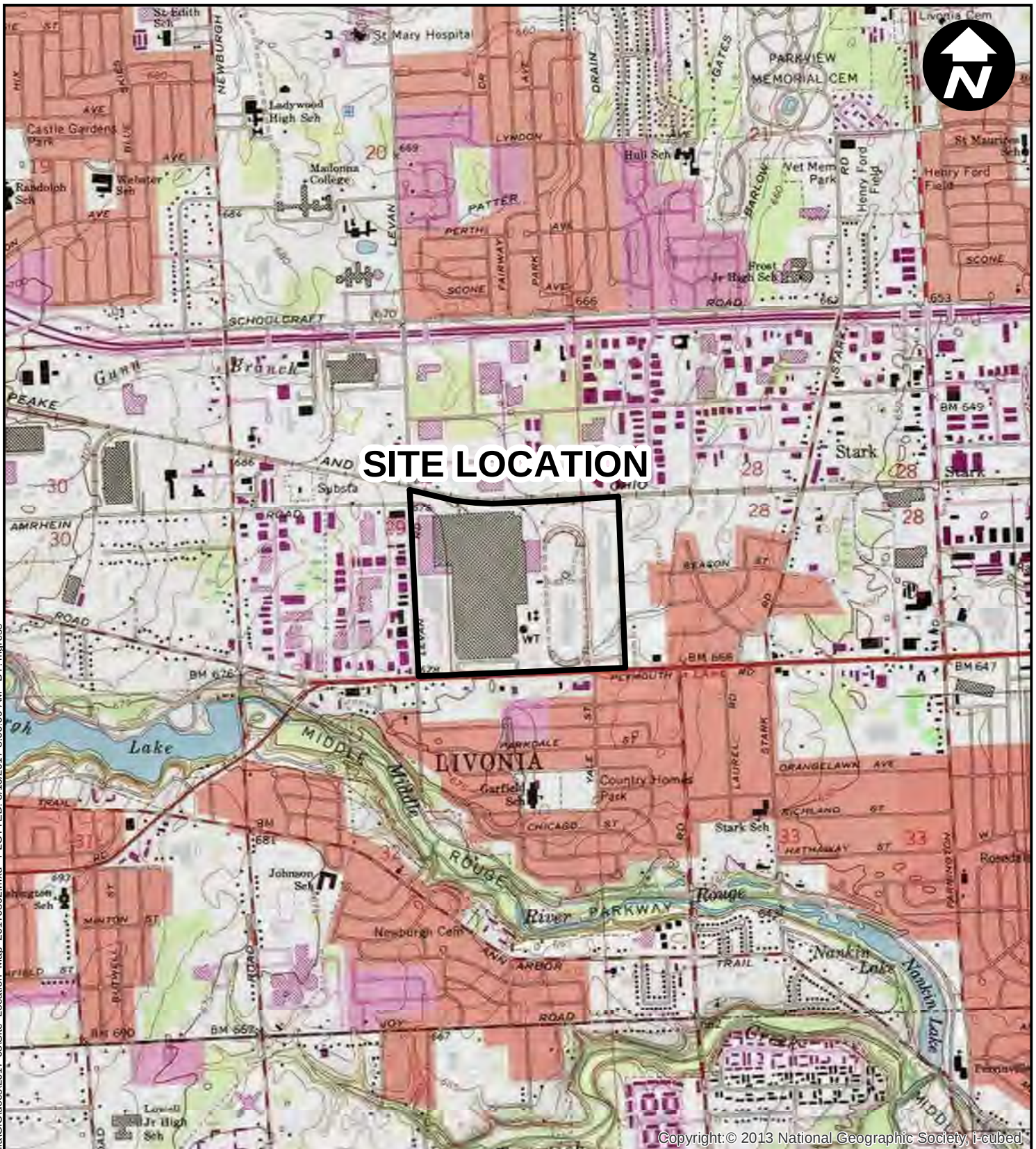
Bold Result denotes exceedance of EGLE Non-Residential Drinking Water Criteria.
< Denotes not detected above reporting limit.

Abbreviations:
°C degrees Celsius
µg/L micrograms per liter
Bold Compound was found in the blank and sample
EGLE Michigan Department of Environment, Great Lakes, and Energy
J estimated result
mg/L milligrams per liter
MW monitoring well
mS/cm millisiemens per centimeter
mV millivolts
NTU nephelometric turbidity units
s.u. standard units

Analytical Methods:
8260D for Volatile Organic Compounds (VOCs)

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Figures



0 2,000 4,000
 SCALE IN FEET

SOURCE:
 USGS 7.5 MINUTE TOPOGRAPHIC MAP
 NORTHVILLE AND WAYNE QUADRANGLES

FORD MOTOR COMPANY
 LIVONIA TRANSMISSION PLANT
 LIVONIA, MICHIGAN

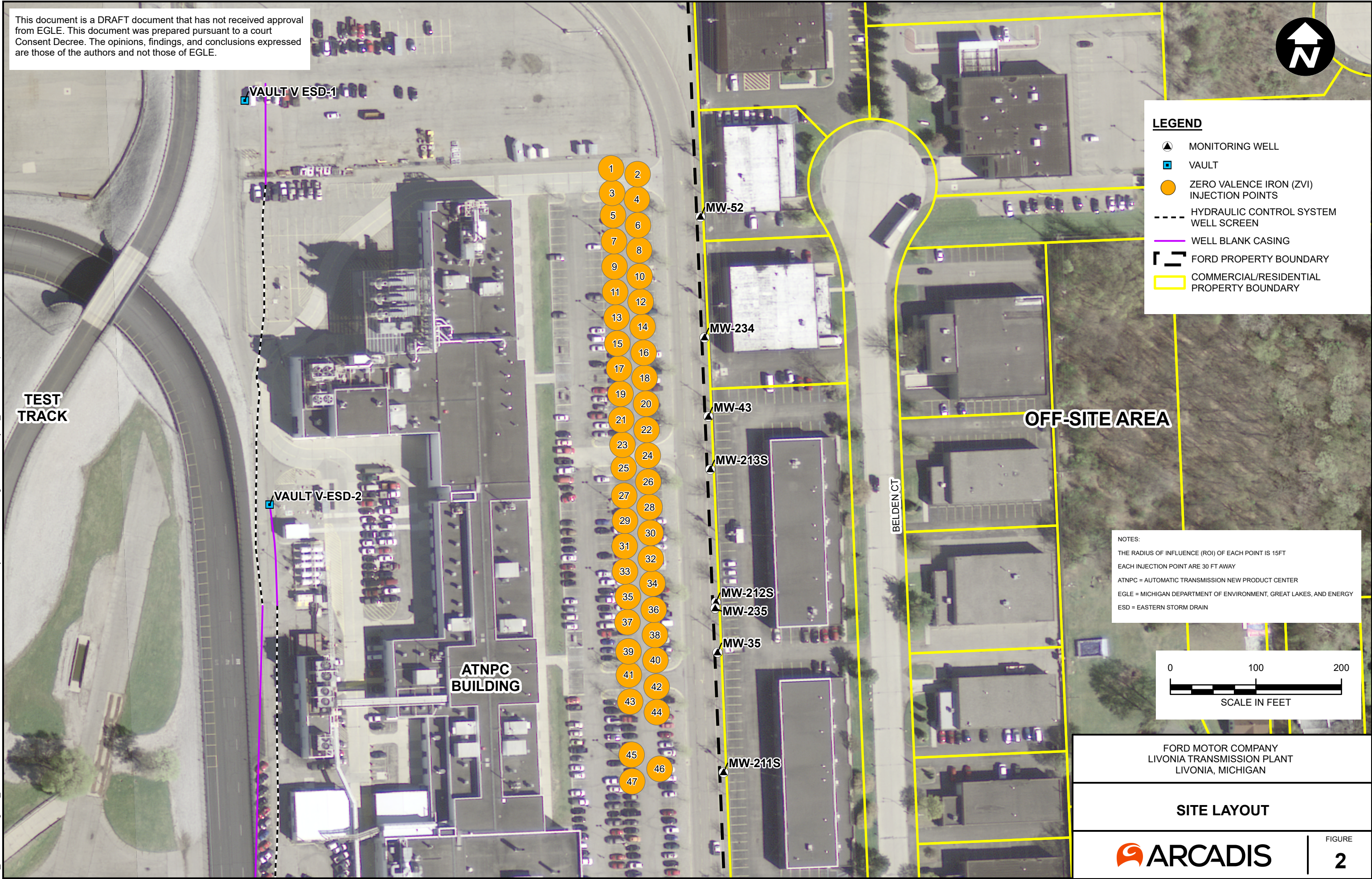
SITE LOCATION MAP

ARCADIS

FIGURE
1

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CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: 30080642 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet T: \ENV\Nov\Brighton_M\Ford\Livonia\GIS\docs\GEC\2025\Arc Pro\Ford LTP- ZVI Injection Locations\Figure 2 - Site Layout_LTP RevDRA.aprx PLOTTED: 25/07/2025 13:51 BY: sbj01179



Attachment 1

Groundwater Sampling Logs



Prepared By: Noah Downie

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30251157	Well ID	MW-35		Date	05-09-2025		
Project Name/Location	Ford LTP		Weather	52.0 degrees F and Clear. The wind is blowing N at 4.7 mph.				
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	19.5-24.5	Casing Diameter (in.)	2	Well Material	PVC	
Static Water Level (ft-bmp)	7.75	Total Depth (ft-bmp)	25.30	Water Column (ft.)	17.55	Gallons in Well	2.95	
		Pump Intake (ft-bmp)	22.00	Purge Method	Low-Flow	Sample Method	Grab	
		Well Volumes Purged	0.84					
Sample Time:	Label	12:35	Volume Purged	2.40 gallons	Replicate/Code No.	--	Sampled by	Noah Downie
	Purge Start	11:29						
	Purge End	12:43						

MD

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:32	0	150	8.00	0.00	7.39	5.38	12.00	1.12	13.9	-116.0	Clear	No Odor
11:37	5	150	8.32	0.20	7.41	5.36	23.40	0.46	13.9	-130.5	Clear	No Odor
11:42	5	150	8.50	0.40	7.41	5.32	23.60	0.36	13.8	-148.2	Clear	No Odor
11:47	5	150	8.55	0.60	7.41	5.32	20.20	0.33	14.0	-156.2	Clear	No Odor
11:52	5	150	8.60	0.80	7.41	5.28	25.70	0.30	14.0	-170.3	Clear	No Odor
11:57	5	150	8.60	1.00	7.41	5.26	18.40	0.28	13.9	-179.4	Clear	No Odor
12:02	5	150	8.60	1.20	7.41	5.21	15.20	0.26	14.1	-191.3	Clear	No Odor
12:07	5	150	8.68	1.40	7.41	5.18	13.90	0.25	14.1	-197.8	Clear	No Odor
12:12	5	150	8.68	1.60	7.41	5.14	17.10	0.23	14.2	-205.4	Clear	No Odor
12:17	5	150	8.68	1.80	7.41	5.08	23.10	0.23	14.1	-210.0	Clear	No Odor
12:22	5	150	8.75	2.00	7.41	5.05	16.00	0.22	14.1	-213.5	Clear	No Odor
12:27	5	150	8.75	2.20	7.41	4.96	14.20	0.21	14.2	-215.1	Clear	No Odor
12:32	5	150	8.75	2.40	7.41	4.85	27.90	0.21	14.1	-216.8	Clear	No Odor
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* Turbidity < 50 NTU and ±10% for within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments: none

Well Casing Volumes					
Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information	Onsite, E	Well Locked at Arrival:	n/a
Well Location:	Good	Well Locked at Departure:	n/a
Condition of Well:	Flush mount	Lock Functioning:	n/a
Well Completion:			



Prepared By: Patrick Labadie

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30251157	Well ID	Ford LTP	MW-43	Date	05-09-2025		
Project Name/Location				Weather	57.9 degrees F and Mostly Clear. The wind is blowing NNW at 10.3 mph.			
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	17.0-22.0	Casing Diameter (in.)	2	Well Material	PVC	
Static Water Level (ft-bmp)	7.17	Total Depth (ft-bmp)	21.70	Water Column (ft.)	14.53	Gallons in Well	2.36	
		Pump Intake (ft-bmp)	19.50	Purge Method	Low-Flow	Sample Method	Grab	
		Well Volumes Purged	0.39					
Sample Time:	Label	14:10	Volume Purged	0.91 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
	Purge Start	13:29						
	Purge End	14:15						

Patrick Labadie

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:30	0	100	7.20	0.00	7.67	4.29	15.00	1.85	15.1	61.8	Clear	No Odor
13:35	5	100	7.20	0.13	7.64	4.11	11.90	0.45	14.7	62.1	Clear	No Odor
13:40	5	100	7.20	0.26	7.66	4.10	8.06	0.42	14.5	60.7	Clear	No Odor
13:45	5	100	7.20	0.39	7.65	4.09	16.50	0.36	14.5	58.4	Clear	No Odor
13:50	5	100	7.20	0.52	7.64	4.10	13.40	7.32	14.3	56.4	Clear	No Odor
13:55	5	100	7.20	0.65	7.64	4.09	4.90	4.35	14.3	53.7	Clear	No Odor
14:00	5	100	7.20	0.78	7.63	4.09	4.50	3.97	14.1	51.8	Clear	No Odor
14:05	5	100	7.20	0.91	7.63	4.10	4.00	4.21	14.2	49.3	Clear	No Odor
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* Turbidity < 50 NTU and ±10% for within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments	none
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Well Casing Volumes					
Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information	Onsite, NE	Well Locked at Arrival:	n/a
Well Location:	Good	Well Locked at Departure:	n/a
Condition of Well:	Flush mount	Lock Functioning:	n/a
Well Completion:			



Prepared By: Jeremy Myers

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30251157	Well ID	Ford LTP	MW-52	Date	05-09-2025		
Project Name/Location				Weather	42.1 degrees F and Clear. The wind is blowing N at 8.1 mph.			
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15.0-20.0	Casing Diameter (in.)	2	Well Material	PVC	
Static Water Level (ft-bmp)	7.32	Total Depth (ft-bmp)	19.75	Water Column (ft.)	12.43	Gallons in Well	2.02	
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Grab	
		Well Volumes Purged	0.45					
Sample Time:	Label	09:30	Volume Purged	0.91 gallons	Replicate/Code No.	--	Sampled by	Jeremy Myers
	Purge Start	08:49						
	Purge End	09:32						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
08:51	0	100	7.43	0.00	7.35	7.86	9.47	1.56	11.5	106.1	Clear, Small Orange Particulates	No Odor
08:56	5	100	7.33	0.13	7.36	7.94	14.50	0.81	11.2	-10.2	Clear, Small Orange Particulates	No Odor
09:01	5	100	7.33	0.26	7.36	8.03	18.80	0.53	11.4	-67.3	Clear, Small Orange Particulates	No Odor
09:06	5	100	7.33	0.39	7.36	8.06	15.70	0.43	11.7	-83.8	Clear, Small Orange Particulates	No Odor
09:11	5	100	7.33	0.52	7.36	8.08	13.50	0.41	11.7	-93.6	Clear, Small Orange Particulates	No Odor
09:16	5	100	7.33	0.65	7.36	8.13	19.80	0.40	11.8	-100.1	Clear, Small Orange Particulates	No Odor
09:21	5	100	7.33	0.78	7.36	8.16	19.70	0.35	11.8	-104.7	Clear, Small Orange Particulates	No Odor
09:26	5	100	7.33	0.91	7.35	8.17	19.40	0.34	11.9	-107.8	Clear, Small Orange Particulates	No Odor
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* Turbidity < 50 NTU and ±10% for within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments: none

Well Casing Volumes					
Gallons/Foot	1" = 0.04 1.25" = 0.06	1.5" = 0.09 2" = 0.16	2.5" = 0.26 3" = 0.37	3.5" = 0.50 4" = 0.65	6" = 1.47

Well Information					
Well Location:	Onsite NE	Well Locked at Arrival:	n/a		
Condition of Well:	Good	Well Locked at Departure:	n/a		
Well Completion:	Flush mount	Lock Functioning:	n/a		



Prepared By: Maryam Hanani

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30251157	Well ID	Ford LTP	MW-211S	Date	05-09-2025		
Project Name/Location				Weather	55.9 degrees F and Mostly Clear. The wind is blowing at 6.9 mph.			
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	7.0-12.0	Casing Diameter (in.)	2	Well Material	PVC	
Static Water Level (ft-bmp)	7.72	Total Depth (ft-bmp)	11.82	Water Column (ft.)	4.10	Gallons in Well	0.67	
		Pump Intake (ft-bmp)	9.22	Purge Method	Low-Flow	Sample Method	Grab	
		Well Volumes Purged	1.73					
Sample Time:	Label	13:10	Volume Purged	1.16 gallons	Replicate/Code No.	NW-211S-MS_050925, MW-211S-MSD_050925	Sampled by	Maryam Hanani
	Purge Start	12:32						
	Purge End	13:20						

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Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:33	0	150	7.75	0.00	7.25	8.86	5.31	2.36	13.4	-18.4	Small Orange Particulates	No Odor
12:38	5	120	7.75	0.20	7.19	8.83	3.79	0.79	13.6	-15.5	Small Orange Particulates	No Odor
12:43	5	120	7.75	0.36	7.19	8.82	4.41	0.62	13.9	-13.8	Clear	No Odor
12:48	5	120	7.75	0.52	7.19	8.79	1.49	0.57	13.8	-12.9	Clear	No Odor
12:53	5	120	7.75	0.68	7.19	8.79	2.54	0.54	13.7	-11.0	Clear	No Odor
12:58	5	120	7.75	0.84	7.19	8.79	1.83	0.47	13.9	-8.8	Clear	No Odor
13:03	5	120	7.75	1.00	7.20	8.81	2.57	0.48	13.6	-6.2	Clear	No Odor
13:08	5	120	7.75	1.16	7.20	8.77	0.48	0.45	13.8	-3.9	Clear	No Odor
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* Turbidity < 50 NTU and ±10% for within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	9	HCL
1,4-dioxane	40 mL Glass	9	HCL

Comments: none

Well Casing Volumes					
Gallons/Foot	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	
	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	6" = 1.47

Well Information	Onsite, E	Well Locked at Arrival:	n/a
Well Location:	Good	Well Locked at Departure:	n/a
Condition of Well:	Flush mount	Lock Functioning:	n/a
Well Completion:			



Prepared By: Maryam Hanani

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30251157	Well ID	Ford LTP	MW-212S	Date	05-09-2025
Project Name/Location				Weather	46.9 degrees F and Clear. The wind is blowing N at 6.9 mph.	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	6.5-11.5	Casing Diameter (in.)	2	PVC
Static Water Level (ft-bmp)	7.30	Total Depth (ft-bmp)	11.13	Water Column (ft.)	3.83	0.62
		Pump Intake (ft-bmp)	8.80	Purge Method	Low-Flow	Grab
		Well Volumes Purged	2.06			
Sample Time:	Label	10:55	Volume Purged	1.28 gallons	Replicate/Code No.	--
	Purge Start	10:06				Sampled by
	Purge End	11:00				Maryam Hanani

MT

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:13	0	120	7.31	0.00	7.26	5.09	2.82	3.68	12.9	-13.2	Clear	No Odor
10:18	5	120	7.31	0.16	7.24	5.28	2.35	3.04	12.9	-20.7	Clear	No Odor
10:23	5	120	7.31	0.32	7.23	5.38	3.50	2.33	13.0	-25.5	Clear	No Odor
10:28	5	120	7.31	0.48	7.16	5.66	4.30	1.69	13.0	-24.6	Clear	No Odor
10:33	5	120	7.31	0.64	7.04	5.90	3.06	1.08	13.0	-41.0	Clear	No Odor
10:38	5	120	7.31	0.80	7.11	6.02	0.79	0.82	13.1	-66.0	Clear	No Odor
10:43	5	120	7.31	0.96	7.15	6.10	1.04	0.69	13.2	-71.1	Clear	No Odor
10:48	5	120	7.31	1.12	7.17	6.14	1.63	0.68	13.3	-68.6	Clear	No Odor
10:53	5	120	7.31	1.28	7.18	6.16	1.92	0.65	13.3	-68.1	Clear	No Odor
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* Turbidity < 50 NTU and ±10% for within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments: none

Well Casing Volumes	1" = 0.04	1.5" = 0.09	2.5" = 0.26	3.5" = 0.50	6" = 1.47
Gallons/foot	1.25" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

Well Information	Onsite, E	Well Locked at Arrival:	n/a
Well Location:	Good	Well Locked at Departure:	n/a
Condition of Well:	Flush mount	Lock Functioning:	n/a
Well Completion:			



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30251157 Page: 1 of 1

Site Location: Ford LTP Onsite, E

Prepared By: Maryam Hanani

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30251157	Well ID	Ford LTP	MW-213S	Date	05-09-2025		
Project Name/Location				Weather	42.1 degrees F and Clear. The wind is blowing N at 8.1 mph.			
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	6.0-11.0	Casing Diameter (in.)	2	Well Material	PVC	
Static Water Level (ft-bmp)	7.02	Total Depth (ft-bmp)	10.79	Water Column (ft.)	3.77	Gallons in Well	0.61	
		Pump Intake (ft-bmp)	8.52	Purge Method	Low-Flow	Sample Method	Grab	
		Well Volumes Purged	2.39					
Sample Time:	Label	09:45	Volume Purged	1.46 gallons	Replicate/Code No.	--	Sampled by	Maryam Hanani
	Purge Start	08:55						
	Purge End	09:50						

MT

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
08:56	0	140	7.04	0.00	6.92	6.76	9.57	3.16	11.9	55.4	Small Orange Particulates	No Odor
09:01	5	120	7.04	0.18	7.05	6.76	4.20	0.97	11.8	-25.0	Small Orange Particulates	No Odor
09:06	5	120	7.04	0.34	7.08	6.62	2.85	0.78	11.8	-38.4	Small Orange Particulates	No Odor
09:11	5	120	7.04	0.50	7.11	6.48	3.07	0.58	11.8	-48.0	Small Orange Particulates	No Odor
09:16	5	120	7.04	0.66	7.12	6.35	2.01	0.49	11.9	-51.4	Small Orange Particulates	No Odor
09:21	5	120	7.04	0.82	7.13	6.21	2.35	0.42	11.9	-55.6	Clear	No Odor
09:26	5	120	7.04	0.98	7.14	6.11	2.52	0.39	12.0	-58.9	Clear	No Odor
09:31	5	120	7.04	1.14	7.15	5.95	3.75	0.31	12.2	-61.8	Clear	No Odor
09:36	5	120	7.04	1.30	7.15	5.88	0.95	0.27	12.4	-63.9	Clear	No Odor
09:41	5	120	7.04	1.46	7.16	5.83	0.02	0.29	12.4	-66.9	Clear	No Odor
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* Turbidity < 50 NTU and ±10% for within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments Vault flooded upon arrival. Soft light brown muck at bottom of vault.

Well Casing Volumes					
Gallons/Foot	1" = 0.04 1.25" = 0.06	1.5" = 0.09 2" = 0.16	2.5" = 0.26 3" = 0.37	3.5" = 0.50 4" = 0.65	6" = 1.47

Well Information	Onsite, E	Well Locked at Arrival:	n/a
Well Location:	Fair	Well Locked at Departure:	n/a
Condition of Well:	Flush mount	Lock Functioning:	n/a
Well Completion:			



Prepared By: Jeremy Myers

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30251157	Well ID	Ford LTP	MW-234	Date	05-09-2025		
Project Name/Location				Weather	46.9 degrees F and Clear. The wind is blowing N at 6.9 mph.			
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	12.0-17.0	Casing Diameter (in.)	2	Well Material	PVC	
Static Water Level (ft-bmp)	6.76	Total Depth (ft-bmp)	15.78	Water Column (ft.)	9.02	Gallons in Well	1.47	
		Pump Intake (ft-bmp)	14.50	Purge Method	Low-Flow	Sample Method	Grab	
		Well Volumes Purged	0.88					
Sample Time:	Label	10:45	Volume Purged	1.30 gallons	Replicate/Code No.	--	Sampled by	Jeremy Myers
	Purge Start	09:48						
	Purge End	10:48						

Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
09:50	0	100	6.86	0.00	7.79	7.47	15.90	0.55	12.2	-120.6	Clear, Small Black Particulates, Small White Particulates	No Odor
09:55	5	100	6.83	0.13	7.87	7.46	7.70	0.46	12.1	-129.5	Clear, Small Black Particulates, Small White Particulates	No Odor
10:00	5	100	6.83	0.26	7.99	7.45	6.58	0.30	12.2	-148.1	Clear, Small White Particulates	No Odor
10:05	5	100	6.83	0.39	8.28	7.43	1.18	0.26	12.3	-178.0	Clear, Small Black Particulates, Small White Particulates	No Odor
10:10	5	100	6.83	0.52	8.87	7.43	0.02	0.13	12.5	-213.9	Clear, Small Black Particulates, Small White Particulates	No Odor
10:15	5	100	6.83	0.65	9.10	7.43	0.02	0.05	12.6	-224.8	Clear	No Odor
10:20	5	100	6.81	0.78	9.28	7.42	0.02	0.05	12.6	-231.2	Clear, Small White Particulates	No Odor
10:25	5	100	6.80	0.91	9.46	7.43	0.02	0.05	12.8	-237.0	Brown, Clear	No Odor
10:30	5	100	6.80	1.04	9.65	7.43	0.02	0.02	12.9	-241.7	Brown, Clear	No Odor
10:35	5	100	6.80	1.17	9.65	7.43	0.02	0.01	13.0	-239.1	Brown, Clear	Faint Odor
10:40	5	100	6.80	1.30	9.68	7.40	0.02	0.02	13.0	-239.0	Brown, Clear	Faint Odor, No Odor
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* Turbidity < 50 NTU and ±10% for within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments: none

Well Casing Volumes					
Gallons/Foot	1" = 0.04 1.25" = 0.06	1.5" = 0.09 2" = 0.16	2.5" = 0.26 3" = 0.37	3.5" = 0.50 4" = 0.65	6" = 1.47

Well Information					
Well Location:	Onsite NE	Well Locked at Arrival:	n/a		
Condition of Well:	Good	Well Locked at Departure:	n/a		
Well Completion:	Flush mount	Lock Functioning:	n/a		



Prepared By: Maryam Hanani

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30251157	Well ID	Ford LTP	MW-235	Date	05-09-2025		
Project Name/Location				Weather	52.0 degrees F and Clear. The wind is blowing N at 4.7 mph.			
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	14.0-19.0	Casing Diameter (in.)	2	Well Material	PVC	
Static Water Level (ft-bmp)	7.22	Total Depth (ft-bmp)	17.78	Water Column (ft.)	10.56	Gallons in Well	1.72	
		Pump Intake (ft-bmp)	16.50	Purge Method	Low-Flow	Sample Method	Grab	
		Well Volumes Purged	0.65					
Sample Time:	Label	12:05	Volume Purged	1.12 gallons	Replicate/Code No.	--	Sampled by	Maryam Hanani
	Purge Start	11:28						
	Purge End	12:10						

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Time	Minutes Elapsed between Readings	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Total Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:29	0	120	7.24	0.00	7.07	8.28	5.87	1.29	13.4	-111.6	Small Orange Particulates	No Odor
11:34	5	120	7.24	0.16	7.12	8.27	6.68	0.61	13.6	-117.0	Small Orange Particulates	No Odor
11:39	5	120	7.24	0.32	7.13	8.24	7.23	0.38	13.6	-117.4	Small Orange Particulates	No Odor
11:44	5	120	7.24	0.48	7.15	8.11	7.35	0.33	13.4	-118.1	Small Orange Particulates	No Odor
11:49	5	120	7.24	0.64	7.16	8.02	7.71	0.26	13.5	-118.4	Small Orange Particulates	No Odor
11:54	5	120	7.23	0.80	7.17	7.95	4.36	0.32	13.5	-120.2	Small Orange Particulates	No Odor
11:59	5	120	7.23	0.96	7.17	7.90	3.34	0.25	13.5	-120.3	Small Orange Particulates	No Odor
12:04	5	120	7.23	1.12	7.17	7.86	3.57	0.24	13.5	-120.7	Small Orange Particulates	No Odor
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* Turbidity < 50 NTU and ±10% for within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

none

Well Casing Volumes					
Gallons/Foot	1" = 0.04 1.25" = 0.06	1.5" = 0.09 2" = 0.16	2.5" = 0.26 3" = 0.37	3.5" = 0.50 4" = 0.65	6" = 1.47
Well Information					
Well Location:	Onsite, E			Well Locked at Arrival:	n/a
Condition of Well:	Good			Well Locked at Departure:	n/a
Well Completion:	Flush mount			Lock Functioning:	n/a