

TRANSMITTAL LETTER



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

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Copies:
Mr. Todd Walton, Ford
Ms. Colleen Liddell, Ford
Mr. Chuck Pinter, Ford

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

Date:
April 30, 2025

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

April 30, 2025

OUR REF

30251157

COPIES TO

Mr. Todd Walton, Ford
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 Pan – 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 February 26th, 2025, during the first quarter 2025 (1Q 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**. Vinyl chloride was detected at concentrations exceeding Part 201 Non-residential Generic Cleanup Criteria at

Mr. Erik Gurshaw
Michigan Department of Environment, Great Lakes, and Energy
April 30, 2025

monitoring well MW-235, which is consistent with previous sampling events. All other site-specific compounds (1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, and 1,4-dioxane) either were not detected at concentrations above the reporting limits or were detected at concentrations below Part 201 Non-Residential Generic Cleanup Criteria for 1Q 2025.

During 1Q 2025, the vinyl chloride concentration at all monitoring wells from the 1Q 2025 ZVI groundwater sampling event were below the performance objective of 2.0 µg/L, with the exception of MW-235 (3.1 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 second quarter 2025 performance monitoring event is scheduled to be completed in May 2025. The next quarterly update letter will summarize the results of 2Q2025 sampling event and will be submitted by July 31 31, 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:		Michigan Non-Residential Drinking Water Criteria	MW-35							MW-43							MW-52				
Date:	Unit		8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024
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	2.5	3.4	2.5	4.7 B	4.2	3.3	4.7	1.8 J	2.6	2.7	3.3 B	2.8
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
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
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
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
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
Vinyl chloride	µg/L	2.0	1.6	1.5	2.2	0.90 J	0.82 J	0.88 J	0.99 J	< 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

Table 1
ZVI Performance Monitoring Groundwater Analytical Data
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location:	Unit	Michigan Non-Residential Drinking Water Criteria	MW-52		MW-211S							MW-212S							MW-213S	
Date:			11/20/2024	2/26/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	8/15/2023	11/14/2023
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/L	350	2.7	2.4	< 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
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	2.6	2.8	1.9	0.89 J	2.0	2.6	1.2	0.58 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
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	0.53 J	< 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	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
Vinyl chloride	µg/L	2.0	1.4	0.86 J	< 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	0.48 J	1.1

Table 1
ZVI Performance Monitoring Groundwater Analytical Data
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location:	Unit	Michigan Non-Residential Drinking Water Criteria	MW-213S					MW-234						MW-235						
Date:			3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	9/18/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	9/18/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024
Semi-volatile Organic Compounds (SVOCs)																				
1,4-Dioxane	µg/L	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	<2.0	1.0 J B	<2.0	<2.0	<2.0	< 2.0	0.89 J	<2.0	1.1 J B	<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
cis-1,2-Dichloroethene	µg/L	70	< 1.0	< 1.0	< 1.0	0.61 J	0.48 J	< 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
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
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
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
Vinyl chloride	µg/L	2.0	0.73 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.46 J	0.48 J	< 1.0	11	12	8.7	4.5	6.1	5.3

Table 1
ZVI Performance Monitoring Groundwater Analytical Data
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location:	Unit	Michigan Non-Residential Drinking Water Criteria	MW-235
Date:			2/26/2025
Semi-volatile Organic Compounds (SVOCs)			
1,4-Dioxane	µg/L	350	1.5 J
Volatile Organic Compounds (VOCs)			
1,1-Dichloroethene	µg/L	7.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	1.2
Tetrachloroethene	µg/L	5.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	< 1.0
Trichloroethene	µg/L	5.0	< 1.0
Vinyl chloride	µg/L	2.0	3.1



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



Location:		MW-52		MW-211S							MW-212S							MW-213S		
Date:	Unit	11/20/2024	2/26/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	8/15/2023	11/14/2023	3/7/2024
Low Flow Sampling Parameters																				
Dissolved Oxygen	mg/L	0.26	0.18	0.14	0.25	0.28	1.24	0.11	0.26	0.32	1.48	0.16	0.54	1.23	0.09	0.22	0.40	0.18	0.36	0.21
ORP	mV	-121.1	-116.5	31.3	64.8	185.7	-43.7	-102.4	87.0	8.50	-2.2	-167.3	90.5	-29.4	-85.2	-34.3	-16.80	-20.7	-201.0	79.8
pH	s.u.	7.16	7.27	7.40	7.34	7.38	7.36	7.30	7.16	7.50	7.19	7.12	7.27	7.13	7.15	7.15	7.39	7.12	7.11	7.23
Temperature	°C	16.3	10.9	19.4	16.2	9.6	23.7	21.5	17.0	8.20	19.4	15.8	10.9	21.0	21.4	17.0	8.90	20.4	17.6	11.9
Specific Conductivity	mS/cm	7.34	6.81	7.29	5.56	7.08	8.78	4.4	6.57	5.52	7.48	8.32	7.06	6.93	7.69	7.07	6.92	7.76	7.05	8.06
Turbidity	NTU	0.02	1.29	2.28	2.99	1.74	9.20	5.17	3.51	1.68	0.02	1.67	2.19	28.60	0.02	2.07	1.22	0.40	3.86	1.65



Location:		MW-213S				MW-234							MW-235						
Date:	Unit	5/21/2024	8/9/2024	11/20/2024	2/26/2025	9/18/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025	9/18/2023	11/14/2023	3/7/2024	5/21/2024	8/9/2024	11/20/2024	2/26/2025
Low Flow Sampling Parameters																			
Dissolved Oxygen	mg/L	0.64	0.14	0.18	0.09	0.06	0.06	2.22	1.13	0.01	0.02	0.01	0.14	5.00	5.80	0.05	0.09	0.17	0.10
ORP	mV	39.4	-98.5	-51.5	-58.80	-255.2	-323.3	-274.3	-277.3	-405.4	-100.4	-171.4	-61.9	-119.6	-63.1	-89.1	-177.9	-260.5	-69.8
pH	s.u.	7.11	7.27	7.15	7.52	10.04	10.03	10.01	9.93	9.76	9.97	10.16	7.10	7.16	7.11	7.14	7.22	7.57	7.45
Temperature	°C	21.5	23.2	16.2	8.80	18.7	17.2	11.3	16.5	20.1	15.8	10.3	17.6	17.2	12	16.0	18.6	16.4	10.8
Specific Conductivity	mS/cm	8.89	6.82	5.99	5.39	8.09	8.12	10.52	7.08	6.95	6.2	5.64	7.86	7.32	12.11	8.90	8.10	7.29	7.03
Turbidity	NTU	27.10	2.71	1.67	1.72	5.21	2.30	0.55	0.02	0.02	4.23	14.70	1.22	62.10	103.00	0.02	1.74	3.51	1.62

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

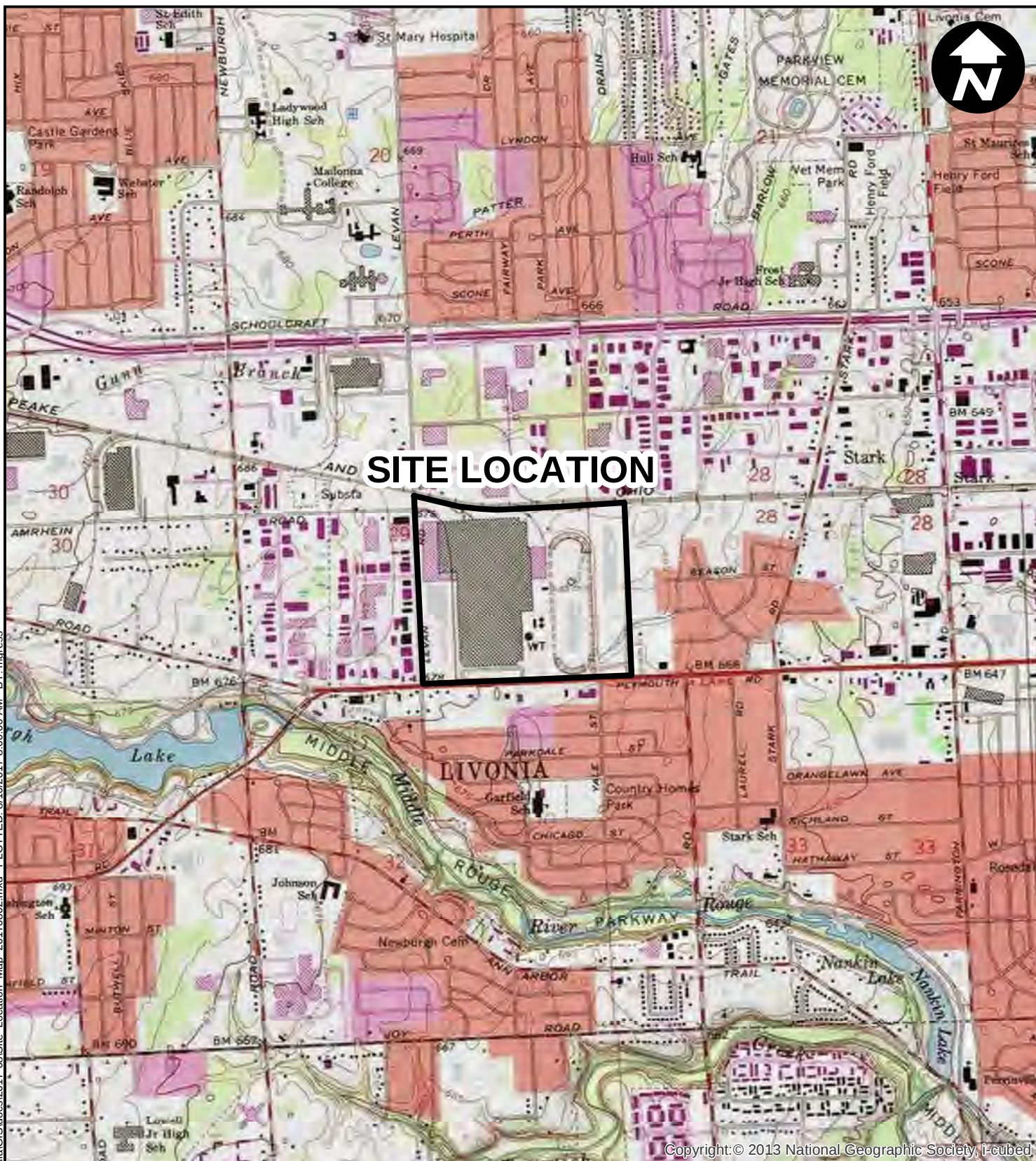
Bold Result denotes exceedance of EGLE Non-Residential Drinking Water Criteria.
< Denotes not detected above reporting limit.

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

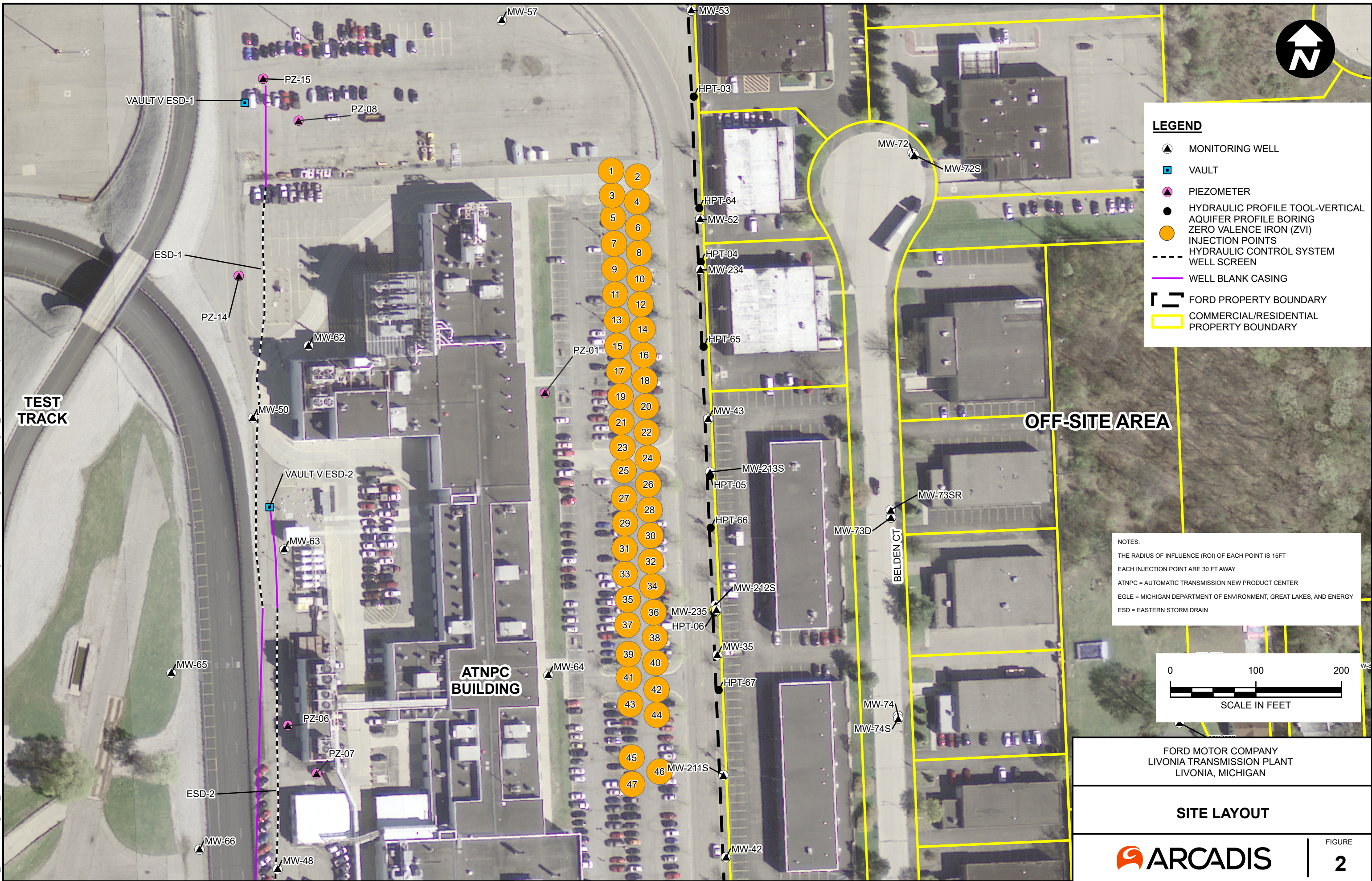
FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE LOCATION MAP

ARCADIS

FIGURE
1

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\GEC2024\Arc Pro\Ford LTP- ZVI Injection Locations\Figure 2 - Site Layout_LTP RevDRA.aprx PLOTTED: 1/31/2024 10:05 AM BY: sb01179



Attachment 1

Groundwater Sampling Logs



Prepared By: Jeremy Myers

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30206169	Well ID	Ford LTP	MW-35	Date	02-26-2025
Project Name/Location				Weather	36.0 degrees F and Cloudy.	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	19.5-24.5	Casing Diameter (in.)	2	PVC
Static Water Level (ft-bmp)	8.95	Total Depth (ft-bmp)	24.07	Water Column (ft.)	15.12	2.45
		Pump Intake (ft-bmp)	22.00	Purge Method	Low-Flow	Grab
		Well Volumes Purged	0.83			
Sample Time:	Label	10:45	Volume Purged	1.56 gallons	Replicate/Code No.	DUP-03
	Purge Start	09:39				Sampled by
	Purge End	10:50				Jeremy Myers

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
09:40	0	100	8.96	0.00	7.70	3.62	283.00	1.35	8.7	191.1	Cloudy	Slight Odor
09:45	5	100	9.34	0.13	7.72	3.68	280.00	0.15	9.3	186.8	Cloudy	Slight Odor
09:50	5	100	9.51	0.26	7.72	3.62	675.00	0.12	9.9	180.1	Cloudy	Slight Odor
09:55	5	100	9.67	0.39	7.71	3.64	241.00	0.09	10.8	173.2	Clear, Cloudy	Faint Odor
10:00	5	100	9.74	0.52	7.71	3.64	139.00	0.08	11.0	169.1	Clear, Cloudy	No Odor
10:05	5	100	9.84	0.65	7.70	3.63	151.00	0.11	11.3	164.2	Clear, Cloudy	Slight Odor
10:10	5	100	9.90	0.78	7.69	3.63	122.00	0.07	11.2	159.3	Clear, Cloudy	Slight Odor
10:15	5	100	9.88	0.91	7.68	3.61	80.50	0.10	11.0	153.9	Cloudy	Slight Odor
10:20	5	100	9.70	1.04	7.69	3.61	43.70	0.12	11.0	150.0	Clear, Cloudy	No Odor
10:25	5	100	9.68	1.17	7.68	3.61	53.70	0.11	11.1	146.2	Clear	Faint Odor
10:30	5	100	9.63	1.30	7.68	3.58	49.20	0.13	11.0	142.5	Clear	No Odor
10:35	5	100	9.64	1.43	7.68	3.57	40.90	0.12	11.1	139.2	Clear	No Odor
10:40	5	100	9.69	1.56	7.67	3.54	40.90	0.11	11.0	135.3	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	6	HCL
1,4-dioxane	40 mL Glass	6	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: Kaylee DeRoo

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30206169	Well ID	Ford LTP	MW-43	Date	02-26-2025		
Project Name/Location				Weather	34.0 degrees F and . The wind is blowing E/NE at 5.8 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)	8.62	Total Depth (ft-bmp)	21.69	Water Column (ft.)	13.07	Gallons in Well	2.12	
		Pump Intake (ft-bmp)	19.50	Purge Method	Low-Flow	Sample Method	Grab	
		Well Volumes Purged	0.86					
Sample Time:	Label	10:05	Volume Purged	1.82 gallons	Replicate/Code No.	--	Sampled by	Kaylee DeRoo
	Purge Start	09:20						
	Purge End	10:10						

20

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
09:25	0	200	8.85	0.00	7.60	4.63	23.70	15.90	10.1	15.9	Clear	No Odor
09:30	5	200	8.85	0.26	7.74	4.74	15.30	1.38	10.5	-118.2	Clear	No Odor
09:35	5	200	8.85	0.52	7.75	4.73	11.30	12.20	10.3	-126.8	Clear	No Odor
09:40	5	200	8.83	0.78	7.76	4.74	13.70	0.40	10.5	-146.7	Clear	No Odor
09:45	5	200	8.84	1.04	7.76	4.72	12.80	0.38	10.6	-149.9	Clear	No Odor
09:50	5	200	8.83	1.30	7.76	4.71	12.30	0.26	11.0	-160.3	Clear	No Odor
09:55	5	200	8.83	1.56	7.76	4.71	12.20	0.22	10.9	-161.0	Clear	No Odor
10:00	5	200	8.83	1.82	7.76	4.71	11.90	0.21	10.8	-165.4	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					
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		



Prepared By: Joseph Fojtik

[illegible]

Project No.	30206169	Well ID	MW-52			Date	02-26-2025
Project Name/Location	Ford LTP		Weather		36.0 degrees F and Cloudy.		
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)	8.75	Total Depth (ft-bmp)	19.75	Water Column (ft.)	11.00	Gallons in Well	1.79
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Grab
		Well Volumes Purged	0.67				
Sample Time:	11:50	Volume Purged	1.20 gallons	Replicate/Code No.	--	Sampled by	Joseph Fojtik
	Purge Start	11:05					
	Purge End	11:52					

[illegible]

* Turbidity < 50 NTU and $\pm 10\%$ or 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
	1.75" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65	

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



Prepared By: Kent Kasper

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

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Project No.	30206169	Well ID	Ford LTP	MW-211S	Date	02-26-2025
Project Name/Location				Weather	30.9 degrees F and Cloudy.	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.0-12.0	Casing Diameter (in.)	2	PVC
Static Water Level (ft-bmp)	9.05	Total Depth (ft-bmp)	11.87	Water Column (ft.)	2.82	0.46
		Pump Intake (ft-bmp)	10.55	Purge Method	Low-Flow	Grab
		Well Volumes Purged	1.98			
Sample Time:	Label	08:40	Volume Purged	0.91 gallons	Replicate/Code No.	--
	Purge Start	07:59				Sampled by
	Purge End	08:44				Kent Kasper

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
08:00	0	100	9.06	0.00	7.42	5.21	24.20	1.67	8.8	155.2	Clear	No Odor
08:05	5	100	9.08	0.13	7.46	5.25	18.20	1.43	8.6	88.7	Clear	No Odor
08:10	5	100	9.09	0.26	7.48	5.27	12.50	0.91	8.3	37.4	Clear	No Odor
08:15	5	100	9.10	0.39	7.49	5.33	8.73	0.70	8.4	19.3	Clear	No Odor
08:20	5	100	9.09	0.52	7.49	5.38	4.44	0.58	8.3	14.0	Clear	No Odor
08:25	5	100	9.09	0.65	7.50	5.44	2.10	0.39	8.4	9.6	Clear	No Odor
08:30	5	100	9.09	0.78	7.50	5.48	2.22	0.34	8.3	9.5	Clear	No Odor
08:35	5	100	9.09	0.91	7.50	5.52	1.68	0.32	8.2	8.5	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 1.25" = 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		



Prepared By: Kent Kasper

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30206169	Well ID	MW-212S		Date	02-26-2025
Project Name/Location	Ford LTP		Weather		32.0 degrees F and Cloudy.	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	6.5-11.5	Casing Diameter (in.)	2	PVC
Static Water Level (ft-bmp)	8.68	Total Depth (ft-bmp)	11.16	Water Column (ft.)	2.48	Gallons in Well
		Pump Intake (ft-bmp)	10.18	Purge Method	Low-Flow	0.4
		Well Volumes Purged	1.95			Sample Method
		Volume Purged	0.78 gallons	Replicate/Code No.	--	Grab
Sample Time:	Label	09:50				Sampled by
	Purge Start	09:12				Kent Kasper
	Purge End	09:54				

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
09:15	0	100	8.68	0.00	7.38	6.94	11.70	1.32	8.4	-22.6	Clear	No Odor
09:20	5	100	8.68	0.13	7.36	6.93	9.48	0.67	8.5	-18.0	Clear	No Odor
09:25	5	100	8.68	0.26	7.36	6.92	5.92	0.53	8.7	-16.7	Clear	No Odor
09:30	5	100	8.68	0.39	7.37	6.93	3.17	0.51	8.7	-17.3	Clear	No Odor
09:35	5	100	8.68	0.52	7.37	6.92	2.43	0.49	8.7	-17.8	Clear	No Odor
09:40	5	100	8.68	0.65	7.38	6.91	0.73	0.44	8.8	-18.2	Clear	No Odor
09:45	5	100	8.68	0.78	7.39	6.92	1.22	0.40	8.9	-16.8	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: Maryam Hanani

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30206169	Well ID		MW-213S	Date	02-26-2025
Project Name/Location	Ford LTP		Weather		37.0 degrees F and Cloudy. The wind is blowing SE at 4.7 mph.	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	6.0-11.0	Casing Diameter (in.)	2	PVC
Static Water Level (ft-bmp)	8.40	Total Depth (ft-bmp)	10.80	Water Column (ft.)	2.40	0.39
		Pump Intake (ft-bmp)	9.90	Purge Method	Low-Flow	Grab
		Well Volumes Purged	3.28	Replicate/Code No.	--	Maryam Hanani
Sample Time:	Label	11:35	Volume Purged	1.28 gallons	Sampled by	
	Purge Start	10:50				
	Purge End	11:40				

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
10:52	0	120	8.43	0.00	8.25	5.44	26.90	0.83	8.1	-49.9	Small Orange Particulates, Yellow	No Odor
10:57	5	120	8.43	0.16	7.60	5.46	20.30	0.30	8.5	-28.9	Small Orange Particulates	No Odor
11:02	5	120	8.43	0.32	7.53	5.45	12.10	0.21	8.7	-24.7	Small Orange Particulates	No Odor
11:07	5	120	8.43	0.48	7.50	5.43	7.37	0.16	8.7	-32.4	Small Orange Particulates	No Odor
11:12	5	120	8.42	0.64	7.50	5.42	6.29	0.15	8.6	-41.5	Small Orange Particulates	No Odor
11:17	5	120	8.42	0.80	7.50	5.44	4.97	0.14	8.4	-47.1	Small Orange Particulates	No Odor
11:22	5	120	8.43	0.96	7.50	5.41	3.44	0.12	8.9	-51.8	Small Orange Particulates	No Odor
11:27	5	120	8.43	1.12	7.51	5.40	2.66	0.11	8.9	-55.6	Small Orange Particulates	No Odor
11:32	5	120	8.43	1.28	7.52	5.39	1.72	0.09	8.8	-58.8	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	Vault flooded upon arrival
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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:	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.	30206169	Well ID	Ford LTP	MW-234	Date	02-26-2025
Project Name/Location				Weather	34.0 degrees F and . The wind is blowing E/NE at 5.8 mph.	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	12.0-17.0	Casing Diameter (in.)	2	PVC
Static Water Level (ft-bmp)	8.22	Total Depth (ft-bmp)	15.78	Water Column (ft.)	7.56	1.23
		Pump Intake (ft-bmp)	14.50	Purge Method	Low-Flow	Grab
		Well Volumes Purged	1.56			
Sample Time:	Label	10:15	Volume Purged	1.92 gallons	Replicate/Code No.	--
	Purge Start	09:12				Sampled by
	Purge End	10:20				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
09:13	0	120	8.27	0.00	8.43	6.86	6.14	1.82	9.8	127.7	Small Black Particulates	No Odor
09:18	5	120	8.27	0.16	8.20	7.09	7.33	0.47	9.9	77.0	Small Black Particulates	No Odor
09:23	5	120	8.28	0.32	8.20	7.16	7.62	0.31	10.0	40.0	Small Black Particulates	No Odor
09:28	5	120	8.28	0.48	8.20	7.15	5.44	0.24	10.4	6.1	Small Black Particulates	No Odor
09:33	5	120	8.28	0.64	8.52	6.76	11.10	0.13	10.6	-38.0	Small Black Particulates, Yellow	No Odor
09:38	5	120	8.28	0.80	9.56	6.44	20.80	0.09	10.4	-97.3	Yellow	Faint Odor
09:43	5	120	8.28	0.96	9.89	6.09	21.80	0.06	10.5	-132.6	Yellow	Faint Odor
09:48	5	120	8.27	1.12	9.95	5.86	20.80	0.04	10.6	-152.2	Yellow	Slight Odor
09:53	5	120	8.26	1.28	10.00	5.77	18.80	0.05	10.3	-160.2	Yellow	Slight Odor
09:58	5	120	8.26	1.44	10.02	5.74	17.10	0.06	10.3	-162.4	Yellow	Faint Odor
10:03	5	120	8.26	1.60	10.08	5.72	16.30	0.01	10.3	-165.6	Yellow	Faint Odor
10:08	5	120	8.26	1.76	10.12	5.68	15.30	0.02	10.4	-168.1	Yellow	Slight Odor
10:13	5	120	8.26	1.92	10.16	5.64	14.70	0.01	10.3	-171.4	Yellow	Slight 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 Well partially flooded upon arrival

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		



Prepared By: Maryam Hanani

[illegible]



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30206169	Well ID		MW-235	Date	02-26-2025
Project Name/Location	Ford LTP		Weather		37.0 degrees F and Cloudy. The wind is blowing SE at 4.7 mph.	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	14.0-19.0	Casing Diameter (in.)	2	PVC
Static Water Level (ft-bmp)	8.58	Total Depth (ft-bmp)	17.76	Water Column (ft.)	9.18	1.49
		Pump Intake (ft-bmp)	16.50	Purge Method	Low-Flow	Grab
		Well Volumes Purged	0.78			
Sample Time:	Label	13.05	Volume Purged	1.16 gallons	Replicate/Code No.	--
	Purge Start	12.24				Sampled by
	Purge End	13.10				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
12:26	0	140	8.58	0.00	7.87	6.58	17.70	1.66	10.1	-48.4	Small Orange Particulates	No Odor
12:31	5	140	8.59	0.18	7.50	7.01	7.59	0.22	10.4	-50.6	Small Brown Particulates	No Odor
12:36	5	120	8.59	0.36	7.46	7.01	4.12	0.16	10.2	-58.0	Small Orange Particulates	No Odor
12:41	5	120	8.59	0.52	7.45	7.02	3.71	0.17	10.5	-62.1	Small Orange Particulates	No Odor
12:46	5	120	8.59	0.68	7.45	7.02	4.07	0.12	10.5	-64.0	Small Orange Particulates	No Odor
12:51	5	120	8.59	0.84	7.45	7.04	2.91	0.13	10.7	-66.2	Small Orange Particulates	No Odor
12:56	5	120	8.59	1.00	7.45	7.04	1.81	0.09	10.9	-68.2	Clear	No Odor
13:01	5	120	8.59	1.16	7.45	7.03	1.62	0.10	10.8	-69.8	Clear	No Odor
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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:			