

TRANSMITTAL LETTER



To:
Jeanne Schlaufman
Michigan Department of
Environment, Great Lakes &
Energy
27700 Donald Court
Warren, MI 48092

From:
Kris Hinskey

Arcadis U.S., Inc.
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Suite 500
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Michigan 48377
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Copies:

Date:
July 31, 2024

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

Arcadis Project No.:
30206169

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SUBJECT

ResAP-Interim Response Activity Plan ZVI Injections
Quarterly Update Letter

TO

Ms. Jeanne Schlaufman, EGLE

DATE

July 31, 2024

OUR REF

30206169

COPIES TO

Mr. Todd Walton, Ford
Mr. Chuck Pinter, Ford

NAME

Kris Hinskey – 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, date 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 May 21st, 2024, during the second quarter 2024 (2Q 2024) 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

Ms. Jeanne Schlaufman
Michigan Department of Environment, Great Lakes, and Energy
July 31, 2024

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 2Q 2024.

During 2Q 2024, vinyl chloride concentrations at monitoring wells MW-35 (0.90 $\mu\text{g/L}$) and MW-235 (4.5 $\mu\text{g/L}$) were the lowest historically observed. All other monitoring well concentrations from the 2Q 2024 ZVI performance groundwater sampling event were below the objective of 1.0 $\mu\text{g/L}$ vinyl chloride, with the exception of MW-52 (1.2 $\mu\text{g/L}$).

Proposed Schedule

Future performance monitoring will be completed in accordance with the ResAP IRA. The third quarter 2024 performance monitoring event is scheduled to be completed in August 2024. The next quarterly update letter will summarize the results of the third quarter 2024 sampling event and will be submitted by October 31st, 2024.

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				MW-211S				8/15/2023
			8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/15/2023	11/14/2023	3/7/2024	5/21/2024	
Semi-volatile Organic Compounds (SVOCs)																			
1,4-Dioxane	µg/L	350	3.4	4.0	3.0	4.5 B	2.5	3.4	2.5	4.7 B	1.8 J	2.6	2.7	3.3 B	< 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
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	2.6
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
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
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	0.52 J	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	1.6	1.5	2.2	0.90 J	< 1.0	< 1.0	< 1.0	< 1.0	1.5	1.5	0.90 J	1.2	< 1.0	< 1.0	< 1.0	< 1.0	0.82 J

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-212S			MW-213S				MW-234				MW-235	
			11/14/2023	3/7/2024	5/21/2024	8/15/2023	11/14/2023	3/7/2024	5/21/2024	9/18/2023	11/14/2023	3/7/2024	5/21/2024	9/18/2023	11/14/2023
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	< 4.0	< 2.0	1.0 J B	< 2.0	0.89 J
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
cis-1,2-Dichloroethene	µg/L	70	2.8	1.9	0.89 J	0.58 J	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	2.0
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
trans-1,2-Dichloroethene	µg/L	100	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
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
Vinyl chloride	µg/L	2.0	1.0	0.84 J	< 1.0	0.48 J	1.1	0.73 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	11	12

See Notes on Last Page.

Location:		MW-35				MW-43				MW-52				MW-211S				MW-	
Date:	Unit	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/15/2023	11/14/2023	3/7/2024	5/21/2024	8/15/2023	11/14/2023
Low Flow Sampling Parameters																			
Dissolved Oxygen	mg/L	0.15	3.30	0.10	0.05	1.19	0.10	1.57	0.21	0.00	0.26	0.98	0.24	0.14	0.25	0.28	1.24	1.48	0.16
ORP	mV	-243.9	-168.3	93	85.2	-152.7	-142.4	-106.9	-185.0	-132.1	-120.7	-75.4	103.3	31.3	64.8	185.7	-43.7	-2.2	-167.3
pH	s.u.	7.73	7.61	7.72	7.65	7.62	7.74	7.69	7.65	7.22	7.27	7.27	7.18	7.40	7.34	7.38	7.36	7.19	7.12
Temperature	°C	16.7	14.0	12.9	15.6	17.0	16.1	11.2	17.6	16.5	16.1	11.2	20.0	19.4	16.2	9.6	23.7	19.4	15.8
Specific Conductivity	mS/cm	4.74	2.95	5.3	8.75	9.62	7.52	7.61	7.10	7.00	6.14	6.65	0.05	7.29	5.56	7.08	8.78	7.48	8.32
Turbidity	NTU	11.28	8.93	24.3	27.90	8.30	21.30	42.70	3.08	4.06	3.23	63.60	34.00	2.28	2.99	1.74	9.20	0.02	1.67

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



Location:		212S		MW-213S				MW-234				MW-2	
Date:	Unit	3/7/2024	5/21/2024	8/15/2023	11/14/2023	3/7/2024	5/21/2024	9/18/2023	11/14/2023	3/7/2024	5/21/2024	9/18/2023	11/14/2023
Low Flow Sampling Parameters													
Dissolved Oxygen	mg/L	0.54	1.23	0.18	0.36	0.21	0.64	0.06	0.06	2.22	1.13	0.14	5.00
ORP	mV	90.5	-29.4	-20.7	-201.0	79.8	39.4	-255.2	-323.3	-274.3	-277.3	-61.9	-119.6
pH	s.u.	7.27	7.13	7.12	7.11	7.23	7.11	10.04	10.03	10.01	9.93	7.10	7.16
Temperature	°C	10.9	21.0	20.4	17.6	11.9	21.5	18.7	17.2	11.3	16.5	17.6	17.2
Specific Conductivity	mS/cm	7.06	6.93	7.76	7.05	8.06	8.89	8.09	8.12	10.52	7.08	7.86	7.32
Turbidity	NTU	2.19	28.60	0.40	3.86	1.65	27.10	5.21	2.30	0.55	0.02	1.22	62.10

See Notes on Last Page.

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

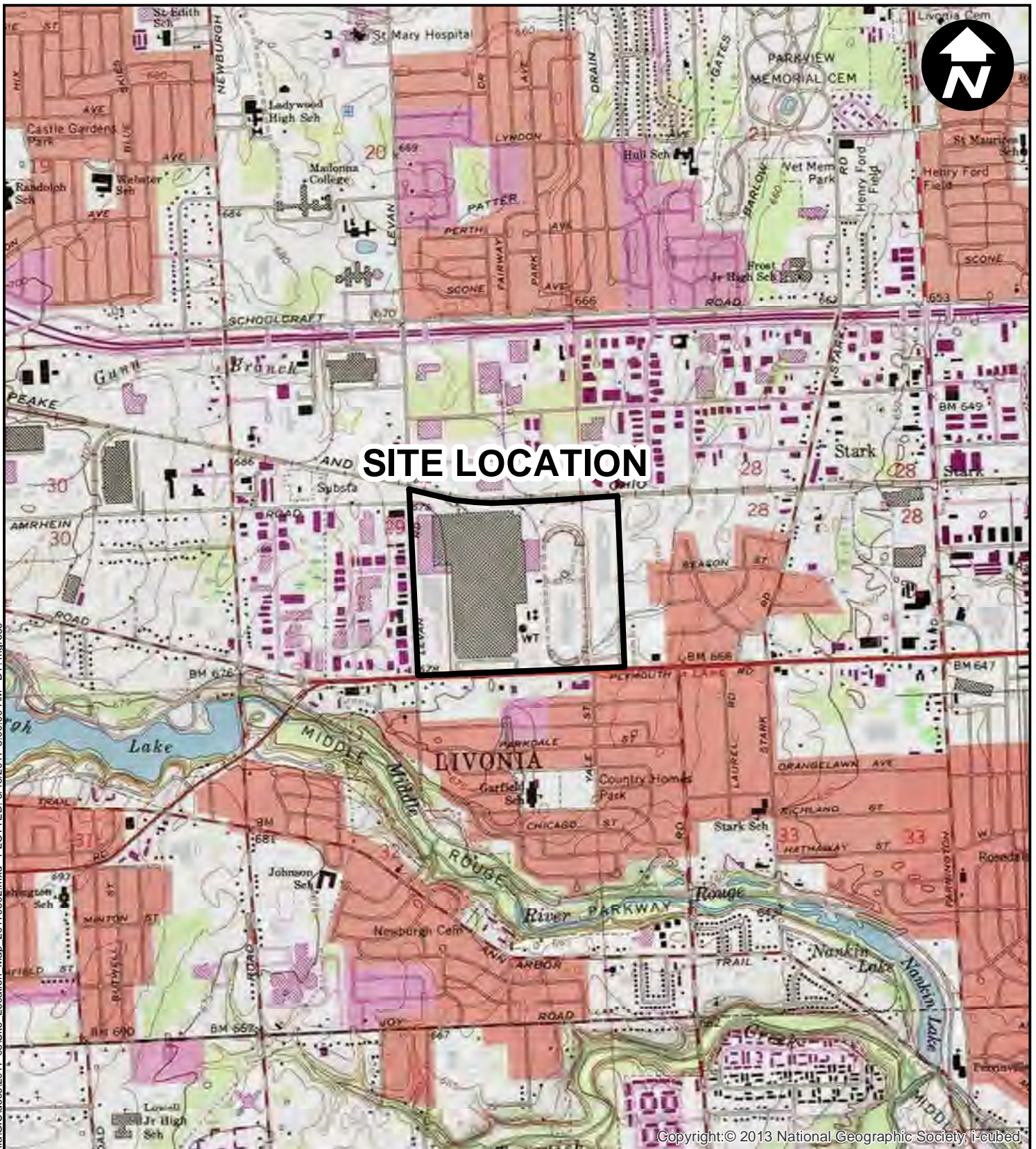
Analytical Methods:

8260D for Volatile Organic Compounds (VOCs)

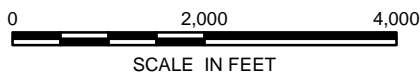
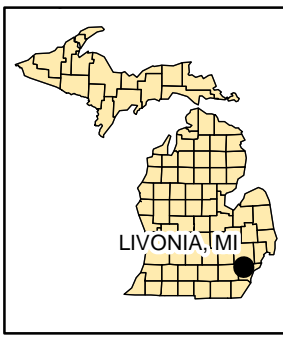
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Figures

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z: GISProjects\ENVA\Novi\Brighton_MLFordLivonia\GIS\docs\2017-08\Site_Location_Map_20170802.mxd PLOTTED: 8/16/2017 8:00:00 AM BY: mgatress



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FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE LOCATION MAP

SOURCE:
USGS 7.5 MINUTE TOPOGRAPHIC MAP
NORTHVILLE AND WAYNE QUADRANGLES

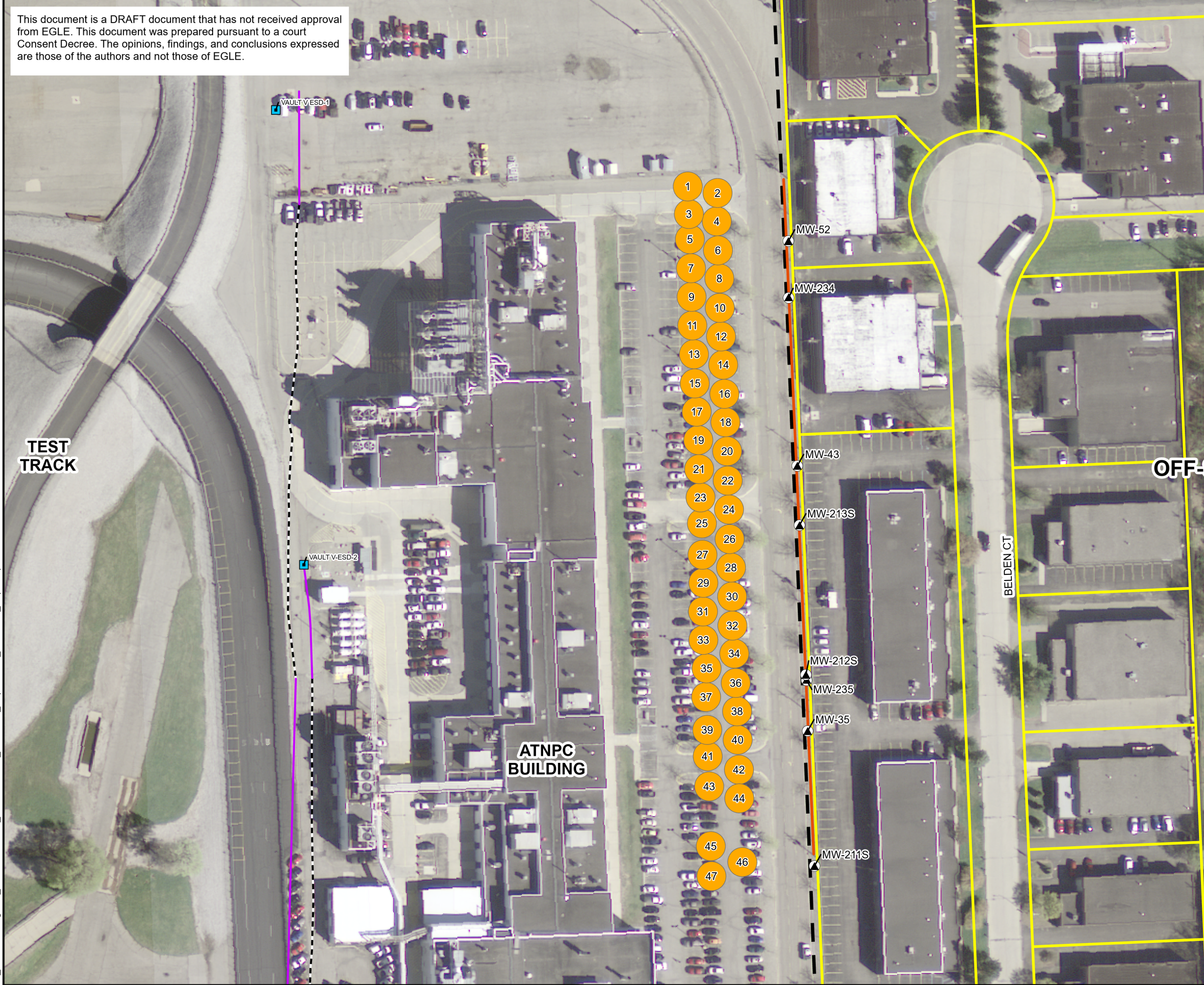


FIGURE
1

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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\Novi\Brighton_Min\FordLivonia_Proj\2023\Ford_Livonia\MI_Report\aprx_PLOTTED: 5/2/2024 4:05 PM BY: AKENS

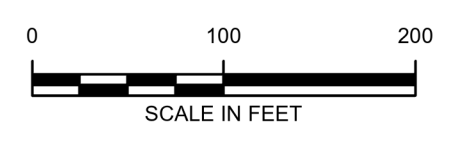


LEGEND

- MONITORING WELL
- VAULT
- ZERO VALENCE IRON (ZVI) INJECTION POINTS
- LOCATION OF CROSS SECTION A-A
- HYDRAULIC CONTROL SYSTEM WELL SCREEN
- WELL BLANK CASING
- FORD PROPERTY BOUNDARY
- COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY

OFF-SITE AREA

NOTES:
 THE RADIUS OF INFLUENCE (ROI) OF EACH POINT IS 15FT
 EACH INJECTION POINT ARE 30 FT AWAY
 ATNPC = AUTOMATIC TRANSMISSION NEW PRODUCT CENTER
 EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
 ESD = EASTERN STORM DRAIN



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE LAYOUT

ARCADIS

FIGURE
2


Attachment A

Groundwater Sampling Logs



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30167538.401.01 Page: 1 of 1
 Site Location: Ford LTP Onsite, E
 Prepared By: Lottie Jay

Date	Time	Description of Activities
05-21-2024	10:56	Arrive onsite
05-21-2024	10:59	Record static depth to water
05-21-2024	11:07	Begin purging well
05-21-2024	11:55	Collect sample MW-35_052124
05-21-2024	12:00	End purge and turn off pump, begin decon of equipment
05-21-2024	12:08	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30167538.401.01 Well ID Ford LTP MW-35 Date 05-21-2024
 Project Name/Location _____ Weather 75.0 degrees F and Partly Cloudy. The wind is blowing W at 5.8 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) 7.70 Total Depth (ft-bmp) 24.11 Water Column (ft.) 16.41 Gallons in Well 2.67
 Pump Intake (ft-bmp) 22.00 Purge Method Low-Flow Sample Method Grab
 Well Volumes Purged 0.57 Replicate/Code No. _____ Sampled by Lottie Jay
 Sample Time: Label 11:55 Volume Purged 1.51 gallons
 Purge Start 11:07
 Purge End 12:00

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
11:10	0	130	8.09	0.00	7.53	9.32	12.60	0.75	15.6	125.0	Small Black Particulates, Small White Particulates	Strong Odor
11:15	5	130	8.32	0.17	7.52	9.28	20.20	0.37	15.6	108.7	Small White Particulates	Strong Odor
11:20	5	130	8.51	0.34	7.64	9.25	23.10	0.26	15.6	102.1	Small White Particulates	Strong Odor
11:25	5	130	8.58	0.51	7.66	9.13	25.30	0.21	15.3	97.4	Small White Particulates	Strong Odor
11:30	5	130	8.62	0.68	7.66	9.07	28.30	0.17	15.1	93.5	Small White Particulates	Strong Odor
11:35	5	130	8.67	0.85	7.57	9.01	28.10	0.12	15.1	91.0	Small White Particulates	Strong Odor
11:40	5	120	8.63	1.02	7.67	8.98	26.60	0.09	15.4	89.3	Small White Particulates	Strong Odor
11:45	5	130	8.61	1.18	7.65	8.92	29.80	0.08	15.4	88.1	Clear	Strong Odor
11:50	5	120	8.54	1.35	7.65	8.80	28.30	0.07	15.4	86.8	Small White Particulates	Strong Odor
11:55	5	120	8.51	1.51	7.65	8.75	27.90	0.05	15.6	85.2	Small White Particulates	Strong 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




SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30167538.401.01 Page: 1 of 1

Site Location: Ford LTP Onsite, on the east side of E Rd.

Prepared By: Kent Kasper

Date	Time	Description of Activities
05-21-2024	09:53	Arrive onsite
05-21-2024	09:58	Record static depth to water
05-21-2024	10:04	Begin purging well
05-21-2024	10:55	Collect sample MW-43_052124
05-21-2024	11:01	End purge and turn off pump, begin decon of equipment
05-21-2024	11:07	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30167538.401.01 Well ID _____ Date 05-21-2024
 Project Name/Location _____ Ford LTP _____ MW-43 _____
 Measuring Pt. Description _____ Weather 72.0 degrees F and Mostly Cloudy. The wind is blowing W/SW at 5.8 mph.
 Static Water Level (ft-bmp) 7.19 Top of Casing _____ Screen Setting (ft-bmp) 17.0-22.0 Casing Diameter (in.) 2 Well Material PVC
 Pump Intake (ft-bmp) _____ Total Depth (ft-bmp) 21.75 Water Column (ft.) 14.56 Gallons in Well 2.37
 Purge Method _____ Purge Method _____ Low-Flow _____ Sample Method Grab
 Well Volumes Purged 0.50 _____
 Sample Time: Label 10:55 Volume Purged 1.18 gallons Replicate/Code No. _____ Sampled by _____
 Purge Start 10:04 _____
 Purge End 11:01 _____

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
10:05	0	100	7.42	0.00	7.66	7.15	9.89	1.22	16.9	-136.8	Clear	No Odor
10:10	5	108	7.41	0.13	7.64	7.06	6.81	0.49	17.1	-167.6	Clear	No Odor
10:15	5	100	7.42	0.27	7.64	7.01	3.51	0.28	17.1	-177.9	Clear	No Odor
10:20	5	100	7.41	0.40	7.66	6.95	5.06	0.24	16.9	-181.2	Clear, Small Red Particulates	No Odor
10:25	5	100	7.33	0.53	7.65	6.90	4.47	0.22	17.8	-182.2	Clear, Small Red Particulates	No Odor
10:30	5	100	7.35	0.66	7.66	6.94	6.54	0.22	18.0	-182.7	Clear, Small White Particulates	No Odor
10:35	5	100	7.37	0.79	7.66	6.98	5.38	0.22	17.9	-183.3	Clear, Small White Particulates	No Odor
10:40	5	100	7.38	0.92	7.66	7.04	4.28	0.21	17.8	-183.9	Clear, Small White Particulates	No Odor
10:45	5	100	7.38	1.05	7.65	7.04	4.12	0.20	17.6	-184.5	Clear	No Odor
10:50	5	100	7.38	1.18	7.65	7.10	3.08	0.21	17.6	-185.0	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
 Well Location: _____ Onsite, on the east side of E Rd. Well Locked at Arrival: _____ n/a
 Condition of Well: _____ Fair, Missing bolts Well Locked at Departure: _____ n/a
 Well Completion: _____ Flush mount Lock Functioning: _____ n/a



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30167538.401.01 Page: 1 of 1
 Site Location: Ford LTP Onsite, gate 1
 Prepared By: Noah Downie

Date	Time	Description of Activities
05-21-2024	10:26	Arrive onsite
05-21-2024	10:33	Record static depth to water
05-21-2024	10:41	Begin purging well
05-21-2024	11:52	Collect sample MW-52_052124
05-21-2024	11:57	End purge and turn off pump, begin decon of equipment
05-21-2024	11:59	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30167538.401.01	Well ID	MW-52	Date	05-21-2024
Project Name/Location	Ford LTP		Weather	75.0 degrees F and Partly Cloudy. The wind is blowing W at 5.8 mph.	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15.0-20.0	Casing Diameter (in.)	2
Static Water Level (ft-bmp)	7.45	Total Depth (ft-bmp)	22.30	Water Column (ft.)	14.85
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow
		Well Volumes Purged	1.00		
Sample Time:	Label	11:52	Volume Purged	2.40 gallons	Replicate/Code No.
	Purge Start	10:41			
	Purge End	11:57			
					Well Material: PVC
					Gallons in Well: 2.41
					Sample Method: Grab
					Sampled by: Noah Downie

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
10:45	0	150	7.54	0.00	7.15	0.05	370.00	0.48	17.6	112.3	Brown	No Odor
10:50	5	150	7.54	0.20	7.18	0.05	180.00	0.31	17.4	110.8	Brown	No Odor
10:55	5	150	7.54	0.40	7.18	0.05	141.00	0.26	17.2	110.8	Brown	No Odor
11:00	5	150	7.55	0.60	7.18	0.05	116.00	0.20	17.3	110.2	Clear	No Odor
11:05	5	150	7.55	0.80	7.18	0.06	107.00	0.19	17.6	108.9	Clear	No Odor
11:10	5	150	7.55	1.00	7.18	0.06	95.30	0.17	17.3	108.4	Clear	No Odor
11:15	5	150	7.55	1.20	7.18	0.06	93.10	0.14	7.5	107.3	Clear	No Odor
11:20	5	150	7.55	1.40	7.18	0.07	97.50	0.12	17.2	106.5	Clear	No Odor
11:25	5	150	7.55	1.60	7.18	0.07	78.30	0.11	17.5	105.8	Clear	No Odor
11:30	5	150	7.55	1.80	7.16	0.08	66.90	0.11	17.1	105.8	Clear	No Odor
11:35	5	150	7.55	2.00	7.16	0.12	50.50	0.21	18.2	106.2	Clear	No Odor
11:40	5	150	7.55	2.20	7.19	0.12	42.80	0.22	19.1	102.5	Clear	No Odor
11:45	5	150	7.55	2.40	7.18	0.05	34.00	0.24	20.0	103.3	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


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, gate 1	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.: 30167538.401.01 Page: 1 of 1
Site Location: Ford LTP Onsite E
Prepared By: Alaina Pitera

Date	Time	Description of Activities
05-21-2024	15:21	Arrive onsite
05-21-2024	15:32	Record static depth to water
05-21-2024	15:33	Begin purging well
05-21-2024	16:10	Collect sample MW-211S_052124
05-21-2024	16:16	End purge and turn off pump, begin decon of equipment
05-21-2024	16:26	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30167538.401.01		Well ID	MW-211S		Date	05-21-2024	
Project Name/Location	Ford LTP		Weather	84.9 degrees F and Mostly Cloudy, The wind is blowing SW at 11.4 mph.				
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	0.5-12.0	Casing Diameter (in.)	2	Well Material	PVC	
Static Water Level (ft-bmp)	8.20	Total Depth (ft-bmp)	11.83	Water Column (ft.)	3.63	Gallons in Well	0.59	
		Pump Intake (ft-bmp)	9.70	Purge Method	Low-Flow	Sample Method	Grab	
		Well Volumes Purged	1.63					
Sample Time:	Label	16:10	Volume Purged	0.96 gallons	Replicate/Code No.		Sampled by	Alaina Pitera
	Purge Start	15:33						
	Purge End	16:16						

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
15:35	0	120	8.20	0.00	7.46	8.89	44.70	3.56	22.5	-42.5	Clear	No Odor
15:40	5	120	8.20	0.16	7.24	8.78	39.70	1.98	22.2	-43.9	Clear	No Odor
15:45	5	120	8.20	0.32	7.23	8.81	22.90	1.78	23.3	-42.9	Clear	No Odor
15:50	5	120	8.20	0.48	7.21	8.80	19.80	1.79	23.4	-42.7	Clear	No Odor
15:55	5	120	8.20	0.64	7.36	8.81	10.10	1.24	23.9	-43.0	Clear	No Odor
16:00	5	120	8.20	0.80	7.36	8.79	9.98	1.22	23.8	-43.5	Clear	No Odor
16:05	5	120	8.20	0.96	7.36	8.78	9.20	1.24	23.7	-43.7	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 1.25" = 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



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30167538.401.01 Page: 1 of 1
 Site Location: Ford LTP Onsite E
 Prepared By: Alaina Pitera

Date	Time	Description of Activities
05-21-2024	14:25	Arrive onsite
05-21-2024	14:25	Record static depth to water
05-21-2024	14:27	Begin purging well
05-21-2024	15:05	Collect sample MW-212S_052124
05-21-2024	15:08	End purge and turn off pump, begin decon of equipment
05-21-2024	15:16	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No.	30167538.401.01	Well ID	Ford LTP		MW-212S	Date	05-21-2024		
Project Name/Location					Weather	84.9 degrees F and Mostly Cloudy. The wind is blowing SW at 11.4 mph.			
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	6.5-11.5	Casing Diameter (in.)	2	Well Material	PVC		
Static Water Level (ft-bmp)	7.26	Total Depth (ft-bmp)	11.15	Water Column (ft.)	3.89	Gallons in Well	0.63		
		Pump Intake (ft-bmp)	8.76	Purge Method	Low-Flow	Sample Method	Grab		
		Well Volumes Purged	1.52						
Sample Time:	Label	15:05	Volume Purged	0.96 gallons	Replicate/Code No.		Sampled by	Alaina Pitera	
	Purge Start	14:27							
	Purge End	15:08							

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
14:30	0	120	7.26	0.00	7.23	5.57	110.00	4.51	23.1	-30.3	Cloudy	No Odor
14:35	5	120	7.26	0.16	7.24	5.53	76.50	2.76	23.6	-30.4	Cloudy	No Odor
14:40	5	120	7.26	0.32	7.24	5.52	49.90	0.86	23.9	-30.7	Clear	No Odor
14:45	5	120	7.26	0.48	7.18	5.53	27.30	0.76	23.5	-30.8	Clear	No Odor
14:50	5	120	7.26	0.64	7.12	6.93	30.20	1.23	21.0	-23.1	Clear	No Odor
14:55	5	120	7.26	0.80	7.13	6.93	29.80	1.26	20.9	-27.0	Clear	No Odor
15:00	5	120	7.26	0.96	7.13	6.93	28.60	1.23	21.0	-29.4	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	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.: 30167538.401.01 Page: 1 of 1

Site Location: Ford LTP Onsite E

Prepared By: Alaina Pitera

Date	Time	Description of Activities
05-21-2024	13:24	Arrive onsite
05-21-2024	13:26	Record static depth to water
05-21-2024	13:28	Begin purging well
05-21-2024	14:10	Collect sample MW-213S_052124
05-21-2024	14:14	End purge and turn off pump, begin decon of equipment
05-21-2024	14:19	Offsite
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30167538.401.01 Well ID Ford LTP MW-213S Date 05-21-2024
 Project Name/Location _____ Weather 80.1 degrees F and . The wind is blowing W/SW at 9.2 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) 7.01 Total Depth (ft-bmp) 10.82 Water Column (ft.) 3.81 Gallons in Well 0.62
 Pump Intake (ft-bmp) 8.51 Purge Method Low-Flow Sample Method _____
 Well Volumes Purged 1.92 _____
 Volume Purged 1.19 gallons Replicate/Code No. _____ Sampled by Alaina Pitera
 Label 14:10
 Purge Start 13:28
 Purge End 14:14

AP

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	130	7.01	0.00	7.15	9.76	45.40	7.26	20.4	75.4	Clear	No Odor
13:35	5	130	7.01	0.17	7.12	9.83	39.40	1.29	20.7	50.8	Clear	No Odor
13:40	5	130	7.01	0.34	7.11	9.81	39.80	0.82	21.4	49.1	Clear	No Odor
13:45	5	130	7.01	0.51	7.11	9.86	33.60	0.84	21.4	41.4	Clear	No Odor
13:50	5	130	7.01	0.68	7.12	9.87	29.40	0.65	21.9	39.3	Clear	No Odor
13:55	5	130	7.01	0.85	7.11	8.87	28.70	0.62	21.7	39.3	Clear	No Odor
14:00	5	130	7.01	1.02	7.11	8.87	26.70	0.63	21.5	39.3	Clear	No Odor
14:05	5	130	7.01	1.19	7.11	8.89	27.10	0.64	21.5	39.4	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



SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30167538.401.01 Page: 1 of 1
 Site Location: Ford LTP On-site, NE
 Prepared By: Garrett Link

Date	Time	Description of Activities
--	--	Arrive onsite
--	--	Record static depth to water
05-21-2024	11:22	Begin purging well
05-21-2024	12:25	Collect sample undefined_052124
05-21-2024	12:35	End purge and turn off pump, begin decon of equipment
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30167538.401.01 Well ID MW-234 Date 05-21-2024
 Project Name/Location Ford LTP Weather 75.0 degrees F and Partly Cloudy. The wind is blowing W at 5.8 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) 6.86 Total Depth (ft-bmp) 15.78 Water Column (ft.) 8.92 Gallons in Well 1.45
 Pump Intake (ft-bmp) 14.50 Purge Method Low-Flow Sample Method Grab
 Well Volumes Purged 1.43
 Sample Time: Label 12:25 Volume Purged 2.08 gallons Replicate/Code No. -- Sampled by Garrett Link
 Purge Start 11:22
 Purge End 12:35

Garrett Link

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
11:24	0	135	6.92	0.00	7.52	9.41	2.70	0.37	16.0	-37.0	Clear	No Odor
11:29	5	130	6.92	0.18	7.51	9.50	2.88	0.19	16.0	-59.9	Small Black Particulates	No Odor
11:34	5	130	6.92	0.35	8.03	9.50	0.02	0.08	16.2	-102.8	Small Black Particulates	No Odor
11:39	5	145	6.92	0.52	9.66	7.88	0.02	0.01	15.1	-228.5	Orange	No Odor
11:44	5	130	6.92	0.71	9.78	7.04	0.02	1.91	16.0	-125.7	Orange	No Odor
11:49	5	130	6.92	0.88	9.83	7.10	0.02	2.37	15.4	-154.4	Orange	No Odor
11:54	5	135	6.93	1.05	9.91	7.08	0.02	1.35	15.0	-188.4	Orange	No Odor
11:59	5	130	6.93	1.23	9.91	7.01	0.02	1.48	15.4	-210.2	Orange	No Odor
12:04	5	130	6.92	1.40	9.89	7.00	0.02	1.24	15.7	-231.1	Orange	No Odor
12:09	5	130	6.92	1.57	9.89	7.07	0.02	1.44	15.8	-245.1	Orange	No Odor
12:14	5	130	6.92	1.74	9.85	7.10	0.02	0.78	16.4	-256.0	Orange	No Odor
12:19	5	130	6.92	1.91	9.90	7.13	0.02	0.83	15.8	-266.7	Orange	No Odor
12:24	5	130	6.92	2.08	9.93	7.08	0.02	1.13	16.5	-277.3	Orange	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	On-site, 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




SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.: 30167538.401.01 Page: 1 of 1

Site Location: Ford LTP On-site, NE

Prepared By: Garrett Link

Date	Time	Description of Activities
--	--	Arrive onsite
--	--	Record static depth to water
05-21-2024	12:54	Begin purging well
05-21-2024	14:00	Collect sample undefined_052124
05-21-2024	14:04	End purge and turn off pump, begin decon of equipment
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SHALLOW LOW-FLOW GROUNDWATER SAMPLING FORM

Page 1 of 1

Project No. 30167538.401.01 Well ID Ford LTP MW-235 Date 05-21-2024
 Project Name/Location _____ Weather 75.0 degrees F and Partly Cloudy. The wind is blowing W at 5.8 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) 7.18 Total Depth (ft-bmp) 17.77 Water Column (ft.) 10.59 Gallons in Well 1.72
 Pump Intake (ft-bmp) 16.50 Purge Method Low-Flow Sample Method Grab
 Well Volumes Purged 1.19
 Sample Time: Label 14:00 Volume Purged 2.04 gallons Replicate/Code No. _____ Sampled by Garrett Link
 Purge Start 12:54
 Purge End 14:04

SL

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
12:56	0	125	7.21	0.00	7.16	9.78	49.50	0.83	16.4	-39.3	Small White Particulates	No Odor
13:01	5	125	7.21	0.17	7.14	9.56	71.10	0.23	16.6	-58.5	Small White Particulates	No Odor
13:06	5	125	7.21	0.34	7.13	9.50	57.80	0.17	16.9	-70.4	Small White Particulates	No Odor
13:11	5	125	7.21	0.51	7.14	9.20	39.50	0.12	15.6	-75.6	Small White Particulates	No Odor
13:16	5	125	7.21	0.68	7.13	9.13	22.00	0.11	16.3	-79.2	Small White Particulates	No Odor
13:21	5	125	7.21	0.85	7.13	9.14	21.00	0.13	16.4	-82.0	Small White Particulates	No Odor
13:26	5	125	7.21	1.02	7.14	9.03	15.80	0.09	16.0	-83.3	Clear	No Odor
13:31	5	125	7.21	1.19	7.14	9.03	6.48	0.12	16.5	-85.2	Clear	No Odor
13:36	5	125	7.21	1.36	7.14	9.02	6.44	0.10	15.6	-86.1	Clear	No Odor
13:41	5	125	7.21	1.53	7.14	8.96	1.76	0.06	16.3	-87.3	Clear	No Odor
13:46	5	125	7.21	1.70	7.14	8.89	0.28	0.08	16.4	-88.3	Clear	No Odor
13:51	5	125	7.21	1.87	7.14	8.96	0.02	0.06	15.4	-88.3	Clear	No Odor
13:56	5	125	7.21	2.04	7.14	8.90	0.02	0.05	16.0	-89.1	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	On-site, 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