TRANSMITTAL LETTER

ARCADIS Design & Consultancy for natural and built assets

To:
Beth Vens
Michigan Department of Environmental Quality
27700 Donald Court
Warren, MI 48092

From:
Kris Hinskey

Arcadis U.S., Inc.
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

Copies:

Date:
July 31, 2019

Subject:
Livonia Transmission Plant
Q2 2019 Progress Report

Arcadis Project No.:
MI001454.0007

We are sending you hard copies:

☒ **Attached** ☐ **Under Separate Cover Via _____ the Following Items:**

☐ Shop Drawings ☐ Plans ☐ Specifications ☐ Change Order
☐ Prints ☐ Samples ☐ Copy of Letter ☒ Reports
☐ Other:

Copies	Date	Drawing No.	Rev.	Description	Action*
1	7/31/2019			Q2 2019 Progress Report	

Action*
☐ A Approved ☐ CR Correct and Resubmit ☐ Resubmit _____ Copies
☐ AN Approved As Noted ☐ F File ☐ Return _____ Copies
☐ AS As Requested ☐ FA For Approval ☐ Review and Comment
☒ Other: As Requested per the Consent Decree

Mailing Method
☐ U.S. Postal Service 1st Class ☐ Courier/Hand Delivery ☐ FedEx Priority Overnight ☐ FedEx 2-Day Delivery
☐ Certified/Registered Mail ☐ United Parcel Service (UPS) ☒ FedEx Standard Overnight ☐ FedEx Economy
☐ Other:

ARCADIS Design & Consultancy for natural and built assets

FORD MOTOR COMPANY

QUARTERLY PROGRESS REPORT - 2Q 2019

Livonia Transmission Plant

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

July 31, 2019

QUARTERLY PROGRESS REPORT - 2Q 2019

Livonia Transmission Plant

Gustan Taylor
Associate Project Manager

Kris Hinskey
Certified Project Manager

Prepared for:

Ford Motor Company
Environmental Quality Office
Fairlane Plaza North
290 Town Center Drive, Suite 800
Dearborn, Michigan 48126

Prepared by:

Arcadis of Michigan, LLC
28550 Cabot Drive
Suite 500
Novi
Michigan 48377
Tel 248 994 2240
Fax 248 994 2241

Our Ref.:

330016352 (MI001454.0007)

Date:

July 31, 2019

This document is intended only for the use of the individual or entity for which it was prepared and may contain information that is privileged, confidential and exempt from disclosure under applicable law. Any dissemination, distribution or copying of this document is strictly prohibited.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

2Q 2019: Activities

On-Site

1. Groundwater Sampling
2. Hydraulic Control System
   - ✓ Operating as Designed Since March 15, 2017
   - ✓ Discharge Compliance
3. Sub-Slab Depressurization System
   - ✓ Operating as Designed Since August 13, 2018
   - ✓ Discharge Compliance
4. Response Activities
   - Vapor Intrusion Assessment
   - Groundwater Delineation
   - Utility Corridor Evaluation

Off-Site

1. Groundwater Sampling
2. Soil Gas Sampling
3. Response Activities
   - Vapor Intrusion Assessment
   - Vapor Intrusion Mitigation
   - Groundwater Delineation

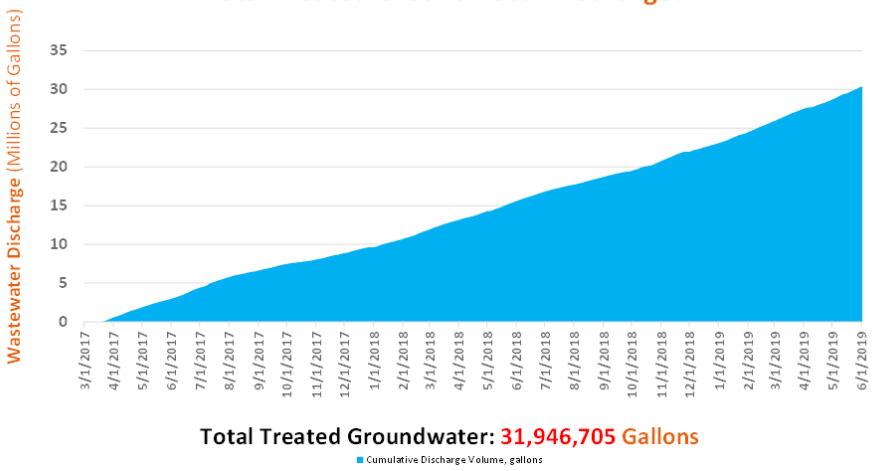
Total On-Site Routine Samples

Period	Groundwater / Water	Soil/ Sediment	Soil Gas
2Q 2019	70	0	0
Total since Oct. 2015	951	328	152

Total Off-Site Routine Samples

Period	Groundwater	Soil Gas
2Q 2019	135	24
Total since Oct. 2015	648	255

Hydraulic Control System – Through June 2019
Total Treated Groundwater Discharged



Total Treated Groundwater: 31,946,705 Gallons

© Arcadis 2017

Key Dates

2018-2019 Document Submittal

Document	Date Submitted	Status
4Q 2017 Progress Report	1/30/18	Received
RespAP Response to Comments Letter	4/13/18	Received
VI RespAP 6.6(b)(i) Revised	4/13/18	Approved with Modifications
RI RespAP 6.7 Revised	4/13/18	Approved with Modifications
1Q 2018 Progress Report	4/30/18	Received
Response to EGLE Request for CSM	7/20/18	Received
2Q 2018 Progress Report	7/31/18	Received
Public Outreach Plan	8/7/2018	Received
3Q 2018 Progress Report	10/3118	Received
4Q 2018 Progress Report	2/1/2019	Received
Response to EGLE	2/8/2019	Responded
Response to EGLE	3/11/19	Responded
Response to EGLE	3/14/19	Responded
Extension Request to EGLE	3/14/19	Responded

Document	Date Submitted	Status
Laboratory Memo	4/16/19	Received
Extension Request to EGLE	4/17/19	Responded
1Q 2019 Progress Report	5/2/19	Received
Response to EGLE	5/15/19	Responded
Response to EGLE	5/17/19	Responded
Response to EGLE	5/24/19	Responded
Response to EGLE	5/30/19	Responded
EGLE Update Letter	6/7/19	Received
Updated Public Outreach Plan	6/28/19	Received

Upcoming Dates

2019

August	Off-Site 3Q 2019 Groundwater Sampling
September	On-Site 3Q 2019 Groundwater Sampling
September	Off-Site 3Q 2019 Soil Gas Sampling

© Arcadis 2017

CONTENTS

Acronyms and Abbreviations iv
1 Introduction 1
1.1 Purpose of This Report 1
1.2 Additional Response Activities 1
1.3 Background 2
2 Summary of Routine Activities 3
2.1 On-Site Groundwater Sampling 3
2.2 Off-Site Groundwater Sampling 4
2.3 Off-Site Soil Gas Sampling 4
2.4 Hydraulic Control System 5
2.4.1 System Overview 5
2.5 Interim Sub-Slab Depressurization System 6
2.5.1 System Overview 6
3 Summary of Response Activity Results 6
3.1 On-Site Groundwater Sampling 6
3.2 Off-Site Groundwater Sampling 6
3.3 Off-Site Soil Gas Monitoring 7
3.3.1 Ongoing Off-Site Vapor Intrusion Response Activities 7
3.3.2 Hydraulic Control System Operation and Performance Monitoring 8
3.4 Hydraulic Control System Operation 8
3.4.1 Maintenance Activities 10
3.4.2 Hydraulic Control System Performance Monitoring 11
3.4.2.1 Groundwater Elevation 11
3.4.2.2 Hydraulic Response 12
3.4.2.3 Groundwater Analytical Trends 12
3.5 Summary of Hydraulic Control System Compliance Actions 13
3.6 Interim Sub-Slab Depressurization System Operation and Compliance Actions 14
4 Access Agreements 16
5 Other Relevant Information 16
5.1 Due Care Obligations 16
5.2 Public Outreach 16
5.3 List of Reporting Documents 16
6 Waste Management 17
7 Proposed Schedule 17
8 References 18

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

TABLES

Table 1 – On-Site Groundwater Elevations

Table 2 – On-Site Groundwater Analytical Results

Table 3 – Off-Site Groundwater Elevations

Table 4 – Off-Site Groundwater Analytical Results

Table 5 – Soil Vapor Monitoring Point Helium Tracer Test Results

Table 6 – Soil Vapor Monitoring Point Purged Air Parameter Readings

Table 7 – Off-Site Soil Vapor Monitoring Point Results

Table 8 – Hydraulic Control System Monthly Discharge Volumes

FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Layout

Figure 3 – Site-Wide Groundwater Elevation Contour Map Under Pumping Conditions June 2019

Figure 4 – On-Site Montoring Wells Cis-1,2-Dichloroethene in Groundwater

Figure 5 – On-Site Montoring Wells Trans-1,2-Dichloroethene in Groundwater

Figure 6 – On-Site Montoring Wells Trichloroethene in Groundwater

Figure 7 – On-Site Montoring Wells Vinyl Chloride in Groundwater

Figure 8 – On-Site Montoring Wells 1,4-Dioxane in Groundwater

Figure 9 – Off-Site Montoring Wells 1,4-Dioxane in Groundwater

Figure 10 – Off-Site Montoring Wells Trichloroethene in Groundwater

Figure 11 – Off-Site Montoring Wells Vinyl Chloride in Groundwater

Figure 12 – Off-Site Vapor Intrusion Assessment Cis-1,2-Dichloroethene in Soil Gas

Figure 13 – Off-Site Vapor Intrusion Assessment Tetrachloroethene in Soil Gas

Figure 14 – Off-Site Vapor Intrusion Assessment Trichloroethene in Soil Gas

Figure 15 – Off-Site Vapor Intrusion Assessment Vinyl Chloride in Soil Gas

Figure 16 – Hydraulic Gradient Map June 2019

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

APPENDICES

Appendix A - Off-Site Residential Monitoring Wells

Appendix B - On-Site Groundwater Field Sampling Logs

Appendix C - Off-Site Groundwater Field Sampling Logs

Appendix D - Off-Site Soil Gas Field Sampling Logs

Appendix E - Transducer Data

Appendix F - Stability Analysis

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

ACRONYMS AND ABBREVIATIONS

1,1-DCE	1,1-dichloroethene
2Q 2019	second quarter of 2019
1Q 2019	first quarter of 2019
2Q 2018	second quarter of 2018
3Q 2018	third quarter of 2018
4Q 2018	fourth quarter of 2018
AOC	Area of Concern
ATNPC	Automatic Transmission New Product Center
CD	Consent Decree
Cis-1,2-DCE	cis-1,2-dichloroethene
COC	constituent of concern
CSM	conceptual site model
DO	dissolved oxygen
DTD	Directed Technologies Drilling
EGLE	Michigan Department of Environment, Great Lakes, and Energy
GLWA	Great Lakes Water Authority
gpd	gallons per day
gpm	gallons per minute
GWIC	groundwater in contact
HCS	hydraulic control system
HPT	hydraulic profiling tool
LNAPL	light non-aqueous phase liquid
LTP	Livonia Transmission Plant
µg/L	microgram per liter
MDEQ	Michigan Department of Environmental Quality
mg/L	milligram per liter
mL	milliliter
mL/min	milliliter per minute
ORP	oxidation-reduction potential
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PLC	programmable logic controller
QAPP	Quality Assurance Project Plan
RIASL	Recommended Interim Action Screening Level
RRD	Remediation and Redevelopment Division

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

SMR	Self-Monitoring Report
SSDS	sub-slab depressurization system
SVMP	soil vapor monitoring point
SVOC	semi-volatile organic compound
TCE	trichloroethene
TDL	Target Detection Limit
trans-1,2-DCE	trans-1,2-dichloroethene
TWM	Total Waste Manager
USEPA	United States Environmental Protection Agency
VAP	vertical aquifer profile
VC	vinyl chloride
VI	vapor intrusion
VOC	volatile organic compound
WCSS	whole-core soil sample
WWTP	Wastewater Pre-Treatment Plant

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

1 INTRODUCTION

1.1 Purpose of This Report

Arcadis of Michigan LLC (Arcadis), on behalf of Ford Motor Company (Ford) has prepared this Progress Report (report) for the Livonia Transmission Plant (LTP) property (the site). This document was produced in compliance with a Consent Decree (CD) filed by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), formerly known as the Michigan Department of Environmental Quality (MDEQ), on July 27, 2017 (No: 2:1712372-GAD-RSW). The purpose of this progress report is to summarize the routine groundwater and vapor sampling both at the site and the area east of the site, as well as the performance monitoring and maintenance associated with the hydraulic control system (HCS) and sub-slab depressurization system (SSDS) completed voluntarily by Ford. This progress report includes activities completed from April 1 through June 30, 2019 (2Q 2019). Activities described in this 2Q 2019 report include:

- On- and off-site groundwater sampling
- Off-site soil gas sampling
- HCS operation, evaluation, performance monitoring, and optimization
- SSDS operation, evaluation, performance monitoring, and optimization.

This quarterly report primarily focuses on the seven constituents of concern (COCs) for the site including: 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene, (trans-1,2-DCE), tetrachloroethene (PCE), trichloroethene (TCE), vinyl chloride (VC), and 1,4-dioxane.

1.2 Additional Response Activities

Additional response activities completed in 2Q 2019 include on-site vapor intrusion investigation, on- and off-site groundwater delineation, off-site vapor intrusion investigation and mitigation, and utility corridor evaluation as outlined in the Response Activity Plan - Vapor Intrusion Assessment and Response Activity Plan - Remedial Investigation, both dated April 13, 2018. Additional response activities have included the following:

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Date	Activity	Activities Completed in 2Q2019	Additional Activities Required (yes or no)
April to June 2019	Additional Off-Site Vapor Intrusion Assessment	476 samples collected (incudes duplicate samples), includes sub-slab, indoor air, and ambient	Yes
April to June 2019	Additional On-Site and Off-Site Monitoring Well Installation	2 piezometers installed on site, 1 shallow monitoring well installed on site, 2 shallow monitoring wells installed off site (**Appendix A**), and 9 groundwater delineation monitoring wells installed off site.	Yes
April to June 2019	Additional On-Site and Off-Site Investigation	6 HPT/VAP borings installed off site, 9 HPT/VAP/WCSS borings installed on site, 4 LIFHP/VAP/WCSS borings installed on site, 1 LIF boring installed on site.	Yes
April to June 2019	Off-Site Mitigation System Installation	14 mitigation systems installed off site. 3 of 14 will require additional activities due to the presence of a basement.	Yes
June 2019	Storm Sewer Evaluation	One sediment sample collected each from the on-site eastern and western diversion chambers	Yes
June 2019	Additional On-Site Vapor Intrusion Assessment	27 sub-slab air samples collected within the ATNPC building	Yes

Notes:
ATNPC – Automatic Transmission New Product Center
HPT – hydraulic profiling tool
LIFHP – laser induced fluorescent hydraulic profiling tool
VAP – vertical aquifer profile
WCSS – whole core soil sample

The off-site vapor intrusion assessment activities are ongoing, and large amounts of data were collected during 2Q 2019. The additional off-site vapor intrusion data collected during 2Q 2019 are summarized below in Section 3.

1.3 Background

The LTP has been active in manufacturing in some capacity since the 1950s. The site is located at 36200 Plymouth Road, Livonia, Michigan (**Figure 1**) and occupies 178 acres of land. The LTP building occupies approximately 3 million square feet. The area surrounding the site includes light industrial, commercial, and residential properties. For the purposes of this report, data are presented based on their locations as either on site or off site (**Figure 2**). On-site area of concern (AOC) locations include all areas within the site boundary including the LTP, Test Track, Wastewater Pre-Treatment Plant (WWTP), Automatic Transmission Plant New Product Center (ATNPC), associated outbuildings, and the Plymouth Road right-

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

of-way. Off-site AOC locations include commercial and residential properties located east of the site, from Belden Court west to Stark Road, and from Plymouth Road north to the railroad right-of-way (**Figure 2**).

2 SUMMARY OF ROUTINE ACTIVITIES

The following table summarizes all routine monitoring activities at the AOC completed during 2Q 2019. Refer to the subsequent sections for further detail on each respective event and associated tables and figures.

Date	Activity	Tables	Figures
June 2019	On-Site Groundwater Sampling	1, 2	3, 4, 5, 6, 7, 8,
April to May 2019	Off-Site Groundwater Sampling	3, 4	3, 9, 10, 11
June 2019	Off-Site Residential Soil Gas Sampling	5, 6, 7	12, 13, 14, 15
April to June 2019	HCS Performance Monitoring	8	2, 3, 16

2.1 On-Site Groundwater Sampling

Arcadis completed on-site gauging on June 14, 2019. Monitoring wells and piezometers were gauged from the top of casing using an electronic water level meter to within 0.01 foot. A summary of the on-site 2Q 2019 groundwater elevations is included on the on-site quarterly groundwater elevation summary table (**Table 1)**. Groundwater elevation contours and apparent groundwater flow for the 2Q 2019 are provided on **Figure 3**.

On-site groundwater sampling was completed from June 10 through June 15, 2019 on all monitoring wells excluding the 10 on-site light non-aqueous phase liquid (LNAPL) wells (LMW-15-01, LMW-15-02, LMW-15-03, LMW-15-04, LMW-15-05, LMW-15-06, LMW-15-07, LMW-15-08, LMW-15-09, and LMW-15-10) and two monitoring wells (MW-27 and MW-122), which were inaccessible at the time of sampling. Groundwater was purged from the wells at a flow rate of 100 to 300 milliliters per minute [mL/min] until field parameters (conductivity, pH, turbidity, temperature, dissolved oxygen [DO], and oxygen reduction potential [ORP]) stabilized. Once field parameters stabilized, groundwater samples were collected into laboratory supplied bottles. A summary of the 2Q 2019 groundwater analytical results is presented in the on-site quarterly groundwater analytical data summary table (**Table 2**). On-site groundwater field sampling logs are provided for reference in **Appendix B.**

Groundwater samples were collected from 70 monitoring wells and submitted on ice to TestAmerica Laboratories in Canton, Ohio (TestAmerica). Additionally, duplicates and trip blanks taken during the sampling event were collected and analyzed in accordance with the methodology specified in the on-site Quality Assurance Project Plan (QAPP; Arcadis 2017a) and submitted to TestAmerica. All samples were submitted for analysis of the specific list of volatile organic compounds (VOCs) via United States

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Environmental Protection Agency (USEPA) Method 8260B and 1,4-dioxane via USEPA Method 8260B-SIM. The groundwater analytical results are discussed in Section 3 below.

2.2 Off-Site Groundwater Sampling

Arcadis completed off-site gauging on June 14, 2019. Monitoring wells were gauged from the top of casing using an electronic water level meter accurate to within 0.01 foot. A summary of the 2Q 2019 groundwater elevations (rights-of-way monitoring wells only) is included on the off-site quarterly groundwater elevation summary table (**Table 3**). Groundwater elevation contours and apparent groundwater flow are provided on **Figure 3**. Only monitoring wells gauged during the site-wide gauging event were used to produce the elevation contour figure.

Off-site groundwater sampling was completed from April 11 through April 22, 2019 and May 9 through May 23, 2019. Groundwater was purged from the well at a flow rate of 100 to 300 mL/min until field parameters (depth to water, specific conductance, conductivity, pH, turbidity, temperature, DO, and redox/ORP) had stabilized. Once field parameters were stable, groundwater samples were collected into laboratory-supplied bottles. A summary of the 2Q 2019 groundwater analytical results is presented in the off-site quarterly groundwater analytical data summary tables (**Table 4 and Appendix A**). Off-site groundwater field sampling logs are provided for reference in **Appendix C**.

Groundwater samples were collected from 135 monitoring wells and submitted on ice to TestAmerica. Additionally, duplicates, matrix spike/matrix spike duplicates, and trip blanks collected during the sampling event were analyzed in accordance with the methodology specified in the off-site QAPP (Arcadis 2017b) and submitted to TestAmerica. Samples were not collected from two monitoring wells (MW-123S and MW-149S) due to submerged well vaults resulting from a high groundwater table in those areas. All groundwater samples were submitted for analysis of the specific list of VOCs via USEPA Method 8260B and 1,4-dioxane via USEPA Method 8260B-SIM based on a standard turnaround time of 10 business days. The groundwater analytical results are discussed below.

2.3 Off-Site Soil Gas Sampling

Arcadis completed off-site soil gas sampling on June 24 and 25, 2019. Twenty-four soil gas samples were collected during the 2Q 2019 sampling event. Soil vapor monitoring points (SVMPs) SVMP-10, SVMP-13, SVMP-14, SVMP-15, SVMP-16, SVMP-19, and SVMP-20 were not sampled in 2Q 2019 due to saturated screens. The SVMP-26 sample was cancelled due to a high canister vacuum reading of 10.5 Hg. SVMP-29 through SVMP-37 (SVMP-29 and SVMP-32 each consist of a shallow and a deep interval) are located on private residential properties and were not sampled in 2Q 2019. Additionally, duplicates were collected during the sampling event and analyzed in accordance with the methodology specified in the off-site QAPP (Arcadis 2017b). The next quarterly sampling event is scheduled for August/September 2019, and sampling will be attempted at all existing SVMPs except for SVMP-29 through SVMP-37.

The 24 SVMP samples (along with two duplicate samples) were collected using 1-liter summa canisters and 20-minute EATL flow controllers. Each location was purged of approximately 180 milliliters (mL) of air before sampling.

Several technical quality controls were implemented to ensure that representative soil gas samples were collected from each sample point as described below.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

- Tracer gas testing has been conducted during eight rounds of soil gas sampling using a helium tracer at each location before sampling. Methods for tracer testing were the same as those presented in the 2013 MDEQ Vapor Intrusion (VI) Guidance Appendix F and in line with industry-accepted standards. No unacceptable helium leak test results were noted during the eight rounds of soil gas sample collection through March 2019. Samples were deemed acceptable, as all exhibited concentrations of helium in purged soil gas less than 10 percent of the initial shroud concentration of helium, as presented in the MDEQ VI Guidance (MDEQ 2013). Tracer gas testing results are presented in **Table 5**.
- Small screened intervals (1-inch screen within a 3-inch sand pack) were installed to allow for a thicker bentonite seal to the ground surface at each location.
- Soil gas sampling has been conducted slowly (i.e., 20-minute sample using a 1-liter canister) to avoid short-circuiting. This flow rate is four times slower than the maximum 200 mL/min included in the 2013 MDEQ VI Guidance. EGLE suggested that samples be collected at a flow rate at or below 200 mL/min "to minimize the potential for vacuum extraction of contaminants from the soil phase (2013 MDEQ VI Guidance)."
- Carbon dioxide and oxygen have been measured from each sample point directly after each round of sample collection. Concentrations of oxygen are slightly depressed from atmospheric conditions, while concentrations of carbon dioxide are slightly elevated. This is as expected due to the influence of microbial respiration in the vadose zone, which consumes oxygen and produces carbon dioxide (USEPA 2015). Carbon dioxide and oxygen concentrations from the SVMPs are presented in **Table 6**.

Ambient air temperature, percent humidity, and barometric pressure were recorded during the field event and are presented in **Appendix D**.

A total of 24 soil gas samples, plus two duplicate samples, were submitted under chain-of-custody protocols to Eurofins AirToxics Laboratory located in Folsom, California (Eurofins) for analysis of the specific list of VOCs (1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC, and 1,4-dioxane) via USEPA Method TO-15 based on a standard turnaround time of 10 business days. Soil gas analytical results are summarized in **Table 7,** and field sampling logs are provided for reference in **Appendix D**. The off-site soil gas results are discussed below.

2.4 Hydraulic Control System

2.4.1 System Overview

The HCS was installed to intercept groundwater and mitigate the potential for impacted groundwater to continue to migrate east of the HCS. Ford began operation of the HCS on March 15, 2017.

The system is designed to extract groundwater via four horizontal wells (ESD-1, ESD-2, ESD-3, and ESD-4; see **Figure 2**), each equipped with a groundwater extraction pump. The extraction well screens are 400 to 600 feet long; the combined length of the four wells extends across approximately 2,000 linear feet on a line approximately perpendicular to groundwater flow. Extracted groundwater is pumped to an above-grade treatment system, where it is treated by bag filters, an air stripper, and granular-activated

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

carbon filters before being discharged to the sanitary sewer under the approved wastewater discharge permit (permit number 006-27510-IU) with the Great Lakes Water Authority (GLWA).

HCS equipment is operated by a programmable logic controller (PLC) unit that allows the system to function without operator supervision. The HCS operates each horizontal well by extracting groundwater to achieve the set level within each pumping well. Pumping in each well ceases when target drawdown is achieved and resumes when the water level begins to rebound. Details regarding design and operation of the system are provided in the Remedial System Operation and Maintenance Manual dated June 29, 2017 and in the Conceptual Site Model (CSM) dated August 25, 2017.

2.5 Interim Sub-Slab Depressurization System

2.5.1 System Overview

In response to the presence of VOCs beneath the LTP building, Ford has designed, installed, and begun operation of an interim SSDS. The SSDS was specifically designed to target select locations in the plant where the highest concentrations of VOCs were present underneath the concrete slab. The goal of the interim SSDS is to reduce the potential for sub-slab soil vapor to potentially migrate through the concrete slab into indoor air. Construction of the SSDS began in September 2017, and the system started extracting and treating soil vapor on August 14, 2018.

The system is designed to extract soil vapor via nine suction pits located in the LTP building (**Figure 2**). The suction pits are installed just beneath the building slab to induce a sub-slab vacuum and reduce the potential for sub-slab soil vapor to migrate into the indoor air. Each suction pit is connected to the conveyance piping network to transmit extracted soil vapor to the system building, where it is treated via a catalytic oxidizer before being discharged to the atmosphere pursuant to the Rule 290 air permitting exemption of the Michigan Air Pollution Control Rules.

3 SUMMARY OF RESPONSE ACTIVITY RESULTS

3.1 On-Site Groundwater Sampling

The on-site monitoring well groundwater results are compared to Michigan Part 201 Non-residential Generic Cleanup Criteria (December 2013). Comprehensive analytical results are summarized in **Table 2**. Compound concentrations of COCs exceeding Part 201 Criteria include cis-1,2-DCE, trans-1,2-DCE, TCE, and VC. Figures summarizing the exceedances of cis-1,2-DCE, trans-1,2-DCE, TCE, VC, and 1,4-dioxane from the four most recent quarters of data (August 2018, October/November 2018, February/March 2019, and June 2019) are provided on **Figures 4** through **8**, respectively. All other site-specific compounds (1,1-DCE and PCE) were either not detected at concentrations above the reporting limits or were detected at concentrations below Part 201 Criteria.

3.2 Off-Site Groundwater Sampling

The off-site monitoring well groundwater results are compared to the Part 201 Residential Generic Cleanup Criteria (December 2013) and the site-specific groundwater VI screening levels included as part of the CD. However, the site-specific screening levels provided for TCE and VC where groundwater may

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

be in contact (GWIC) with a structure are below typical target detection limits (TDLs) for these compounds. Ford requested and received EGLE approval of (in December 2017) the use of the EGLE Remediation and Redevelopment Division (RRD) TDLs for TCE and VC of 1.0 microgram per liter (µg/L) as the groundwater screening level protective of VI at residential structures where there is potential for GWIC.

Comprehensive off-site groundwater analytical results are summarized in **Table 4** and **Appendix A**. Only VC was detected in off-site monitoring wells at concentrations above the 1.0 µg/L TDL from the 2Q 2019 sampling event. Although TCE, cis-1,2-DCE, and 1,4-dioxane were detected off site, no results exceeded the applicable criteria (TCE 1.0 µg/L, cis-1,2-DCE 70 µg/L, and 1,4-dioxane 7.2 µg/L). The results for 1,4-dioxane, TCE, and VC from the four most recent quarters of data (August 2018, October 2018, February/March 2019, and May 2019) are provided on **Figures 9, 10,** and **11,** respectively. Other site-specific compounds (1,1-DCE, trans-1,2-DCE, and PCE) were either not detected at concentrations above the reporting limits or were detected at concentrations below respective Part 201 Residential Criterion.

3.3 Off-Site Soil Gas Monitoring

The soil gas analytical results from 2Q 2019 sampling are compared to site-specific Recommended Interim Action Screening Levels (RIASLs) for residential properties provided by the EGLE in the Consent Decree. The RIASL in **Table 7** for trans-1,2-DCE has been revised based on a letter received by EGLE dated October 30, 2018. Comprehensive analytical results are summarized in **Table 7**. In Q2 2019, PCE was detected in three soil gas samples while TCE was detected in one soil gas sample; all detected concentrations of PCE and TCE were estimated concentrations (i.e., J-flagged) with analytical results reported between the method detection limit and the reporting limit. Additionally, there were no residential off-site exceedances of the RIASLs for any of the site constituents of concern (COCs) from the 2Q 2019 sampling event. Compound-specific results for cis-DCE, PCE, TCE, and VC from the four most recent quarters of data (August 2018, November 2018, March 2019, and June 2019) are provided on **Figures 12, 13, 14,** and **15,** respectively. All other site-specific compounds (1,1-DCE, trans-DCE, and 1,4-dioxane) were not detected at concentrations above laboratory reporting limits; therefore, no figures were produced for these COCs.

Through 2Q 2019, nine rounds of soil gas sampling (June 2017, September 2017, November 2017, February 2018, May 2018, August 2018, November 2018, March 2019, and June 2019) were completed from the SVMP locations since the inception of the sampling program in June 2016, totaling 252 soil gas samples. Although isolated low-level VOC detections have been noted, there have been no exceedances of the residential RIASLs provided by EGLE for the site in any off-site soil gas sample collected from any depth interval.

3.3.1 Ongoing Off-Site Vapor Intrusion Response Activities

Since the beginning of the investigation in September 2018 through June 30, 2019, approximately 1,693 indoor air, ambient air, and sub-slab soil vapor samples (includes duplicate samples) have been collected at residential and commercial properties. Additionally, water from sumps has been collected from residential properties where a sump is present.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

To further evaluate groundwater quality, 62 shallow monitoring wells were installed in 1Q 2019 and were sampled in 2Q 2019 to provide an additional line of evidence for analysis of the VI pathway in compliance with the CD. Based on shallow groundwater sampling results, pre-emptive mitigation is ongoing at 30 residential properties. To date, 26 of 30 mitigation systems have been installed. Three of those homes will require additional work due to the presence of basements.

3.4 Hydraulic Control System Operation and Performance Monitoring

The HCS performance is continually being evaluated and monitored. Treated water discharge volumes are documented daily and tabulated monthly (see **Table 8**). System shutdowns are documented and resolved as detailed below. Samples are collected each month to document permit compliance for sanitary discharge and air emissions.

3.4.1 Hydraulic Control System Operation

The HCS operated with minimal unscheduled downtime. **Exhibit 1** below describes the system shutdowns, approximate durations, and dates.

Exhibit 1: HCS Shutdown Summary

Date of Shutdown	Duration of Shutdowns	Summary of Shutdown
04- April- 19 05- April- 19 06- April- 19 08- April- 19 11- April- 19	Less than 48 hours each day	Fouled bag filters led to a high scrubber sump alarm, shutting the system down each day. Field staff replaced the bag filters and restarted the system. Operation resumed within 38 hours of the shutdown. Total shutdown time was approximately 128.5 hours.
15- April- 19	Less than 24 hours	System manually shut down to clean air stripper sump, trays, and floats. Normal operation resumed the same day. Total shutdown time was approximately 5 hours.
17- April- 19	Less than 24 hours	Fouled bag filters led to a high scrubber sump alarm, shutting the system down. System turned off for cleaning and to replace air stripper blower. Operation resumed on the same day as shutdown. Total shutdown time was approximately 10.5 hours.
19- April- 19 21- April- 19 22- April- 19 25- April- 19 26- April- 19 29- April- 19	Less than 24 hours each day	Fouled bag filters led to a high scrubber sump alarm, shutting the system down each day. Field staff replaced the bag filters and restarted the system. Operation resumed within 17 hours of the shutdown. Total shutdown time was approximately 42.5 hours.
03- May- 19	Less than 24 hours	System shut down to perform backwash on lead carbon vessel. Crew completed backwash, and HCS resumed normal operation the same day. Total shut down time for the day was approximately 1 hour.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Date of Shutdown	Duration of Shutdowns	Summary of Shutdown
10- May- 19	Less than 24 hours	System shut down to replace effluent bag filters. Crew replaced filters, and HCS resumed normal operation the same day. Total shut down time for the day was approximately 0.5 hour.
13- May- 19	Less than 24 hours	System shut down to empty water from backwash totes. Crew emptied totes, replaced filters, and HCS resumed normal operation the same day. Total shut down time for the day was approximately 2.5 hours.
14- May- 19	Less than 24 hours each day	System shut down to replace transfer pump. Crew replaced transfer pump and restarted system on 5/16. System shut down that evening due to fouled bag filters that led to scrubber sump alarm. Field staff replaced bag filters and restarted system. Total shut down time was approximately 36.5 hours.
16- May- 19 20- May- 19	Less than 24 hours each day	Fouled bag filters led to a high scrubber sump alarm, shutting the system down. Field staff replaced the bag filters and restarted system. Total shut down time for the day was approximately 18.5 hours.
28- May- 19 31- May- 19	Less than 24 hours	Fouled bag filters led to a high scrubber sump alarm, shutting the system down. Field staff replaced the bag filters, and restarted system. Total shut down time for the day was approximately 1.5 hours.
01- June- 19	Less than 72 hours	Fouled bag filters and system components led to a high scrubber sump alarm, shutting the system down. Field staff replaced the bag filters the following day and restarted system. Total shut down time was approximately 47.5 hours.
03- June-19	Less than 24 hours	System shut down to complete cleaning activities on air stripper sump, trays, and floats. Normal operation resumed the same day. Total shut down time was approximately 4.5 hours.
06- June- 19 07- June- 19 24- June- 19 26- June- 19	Less than 24 hours each day	Fouled bag filters led to a high scrubber sump alarm, shutting the system down. Field staff replaced the bag filters and restarted system. Total shut down time was approximately 32 hours.

During the reporting period, groundwater was extracted from the horizontal wells with the intent of maintaining continuous and consistent drawdown in each horizontal well. Discharge volumes and flowrates tabulated monthly during the reporting period are summarized in **Exhibit 2** below. Daily HCS discharge volumes and monthly discharge totals are provided in **Table 8** for the 2Q 2019 reporting period. The total volume of water collected and treated from March 15, 2017 through the 2Q 2019 is 31,946,705 gallons.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Exhibit 2: HCS Treated Discharge Water Volume and Flowrate Summary – 2Q 2019

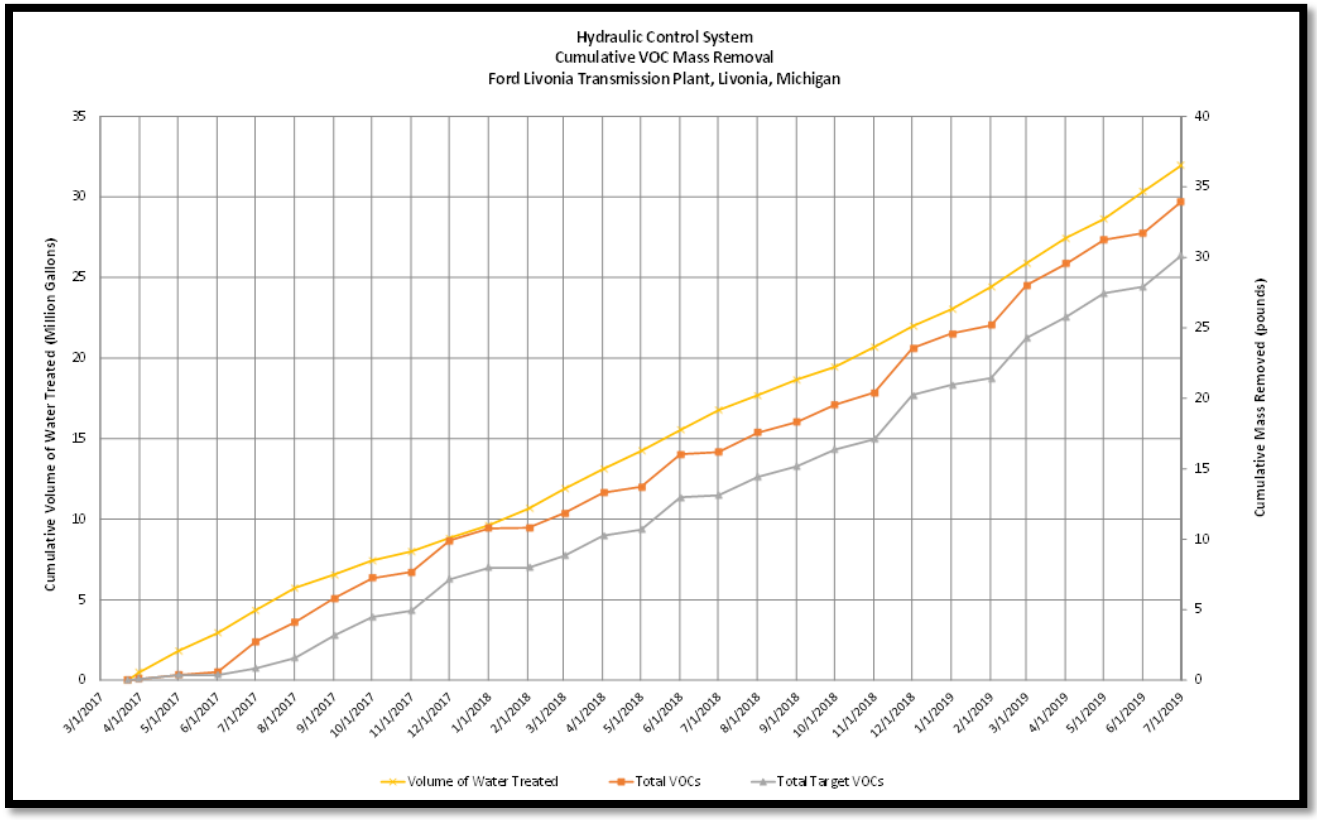
Month	Volume Treated (Gallons)	Average Operational Flowrate* (GPM)
April	1,175,011	37
May	1,703,314	42
June	1,613,764	42

GPM = gallons per minute

*Treated volume divided by operating time

Exhibit 3 below depicts the cumulative constituent-specific mass removal of the VOCs through the 2Q 2019 reporting period. Groundwater mass removal calculations are based on air stripper effluent vapor sampled since June 2017.

Exhibit 3: HCS Mass Removal – 2Q 2019



3.4.2 Maintenance Activities

Routine maintenance is required for effective operation of the HCS equipment and extraction wells. In the second quarter of 2019 Directed Technologies Drilling (DTD) was contracted to clean the horizontal

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

extraction well screens and casings by flushing potable water through the wells to flush the piping and remove sediment and biofouling material. Flushing the material out of the wells helps to promote well efficiency and groundwater capture. Before flushing, DTD completed a video inspection of each well to document the condition and amount of buildup inside the casings and screens. Once the video inspections were completed, DTD flushed potable water through each horizontal well to remove the sediment and biofouling. Each horizontal well was flushed with 6,000 to 18,000 gallons of water at a flow rate of up to 250 gpm. Post-flushing video inspections were completed to ensure that flushing was successful. The videos showed that the well screen slots were more visible and the majority of the loose material in the wells had been removed.

3.4.3 Hydraulic Control System Performance Monitoring

The performance of the HCS is evaluated in general accordance with USEPA guidance – A Systematic Approach for Evaluation of Capture Zone at Pump and Treat Systems (USEPA 2008) to demonstrate that the system is capturing groundwater as designed and mitigating additional migration of impacted groundwater to the east of the HCS. Three lines of evidence are used to evaluate system performance:

1. Groundwater elevation and horizontal gradient
2. Hydraulic response to pumping
3. Downgradient groundwater analytical trends.

Aquifer response to pumping is consistent with that observed during previous quarters. A gradient map illustrating groundwater horizontal gradient and calculated groundwater flow direction east of the HCS system is included as **Figure 16**.

3.4.3.1 Groundwater Elevation

A groundwater elevation contour map, including the area around the HCS system, is provided as **Figure 3**. The HCS wells are a horizontal groundwater sink oriented perpendicular to groundwater flow that captures groundwater flux across the approximate 2,000-foot-long cross-sectional area. Due to seasonal fluctuation, the elevation of groundwater and the corresponding HCS total flow rate varies. The HCS extraction wells are equipped with variable speed pumps and can vary flow rate based on wet and dry seasons. The average monthly pumping rates (ranging from approximately 10 to 42 gpm over the course of a year) are consistent with the range of ambient groundwater flux rate calculated for the site. As shown on **Figure 3**, the hydraulic gradient west of the HCS is steep as groundwater approaches the HCS system. East of the HCS, the gradient is generally flat up to the eastern property boundary before resuming a more consistent gradient off site. This result is consistent with hydraulic control and groundwater capture at the site. The groundwater elevation contours show a deflection around the northern HCS well (ESD-1) with a pronounced inward gradient around the other three ESD wells (ESD-2, -3, and -4).

Consistent with USEPA guidance, hydraulic gradient direction was calculated for a series of well triplets located downgradient of the HCS system. The well triplets and calculated flow vectors are shown on **Figure 16**. The gradient map shows that groundwater movement for the area extending beneath the ATNPC building is westerly toward the HCS well screens, except at the northernmost portion of the system (ESD-1), where the gradient is easterly at the northern extent of ESD-1, south-southeasterly near

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

the mid-point of ESD-1, and then turning westward toward the southern end of ESD-1 near monitoring well MW-63.

3.4.3.2 Hydraulic Response

Pressure transducers have been installed to monitor the system performance and influence on the aquifer system surrounding the HCS. Transducers are installed in 20 monitoring wells and piezometers at the southern end of the HCS wells above the pump and within the northern access vaults for each well. Below is a list of the monitoring wells that currently have transducers installed:

- MW-50, MW-62, PZ-01, PZ-08, PZ-14, and PZ-15 record water levels near the northernmost section of the system adjacent to HCS well ESD-1.
- MW-48, PZ-06, PZ-07, and PZ-09 record water levels near the center section of the system adjacent to HCS well ESD-2.
- MW-46, MW-68, PZ-03, PZ-10, and PZ-13 record water levels near the center section of the system adjacent to HCS well ESD-3.
- MW-45, MW-71, PZ-05, PZ-11, and PZ-12 record water levels near the southern section of the system adjacent to HCS well ESD-4.
- The transducers located above the pumps on the southern end of each well are used to monitor pumping drawdown and modulate pumping rates for each well.
- Transducers located at the northern end of each HCS well are used to evaluate head loss across the length of the HCS well screen and evaluate pumping efficiency.
- The transducer located at MW-18 provides upgradient background water level data to help evaluate regional and seasonal groundwater elevation trends.

The transducer data for 2Q 2019 show piezometer and monitoring well groundwater elevation response in phase with pumping response, indicating hydraulic communication between the HCS wells and the surrounding aquifer. Hydrographs for each ESD well are provided in **Appendix E.**

3.4.3.3 Groundwater Analytical Trends

To date, up to 11 rounds of groundwater samples have been collected from monitoring wells beginning in 2016 (May 2016, April 2017, July 2017, November 2017, February 2018, May 2018, August 2018, October/November 2018, December 2018 [select wells], February/March 2019, and May/June 2019). Analytical results from the four most recent quarters of data are included on **Figures 5** through **9**. A key result of the performance monitoring is at monitoring well MW-71, located east of the HCS well (ESD-4) and opposite the core of southern chlorinated VOC impacts. Since the installation of MW-71 (April 2017), concentrations have been non-detect (TCE) or stable with only estimated detections of total DCE and VC at concentrations less than 1.0 µg/L.

Concentration trends for TCE, total DCE, and VC were reviewed at representative wells located along the axis of impacted areas (on site and off site) and at wells located downgradient of the HCS system between May 2016 and May/June 2019. Trend analysis from wells upgradient of the HCS system can provide insights regarding source maturity; stable concentrations (i.e., no trend with low variability in

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

concentrations over time) and decreasing trends indicate that the source is mature or depleted. Increasing trends at individual source area wells can indicate an expanding plume, but also can reflect the wide range of concentrations and temporal variability common at source areas.

Trend analysis downgradient of the HCS provides the best measure of hydraulic capture performance; no trend and decreasing trends verify that the HCS is working, whereas increasing trends would indicate a lack of capture.

Mann-Kendall trend tests were conducted at selected wells for constituents present at concentrations greater than applicable screening criteria, and coefficient of variation values were calculated. The methodology, preliminary results summary, figures, and trend graphs are included as part of **Appendix F**. Key findings of the Mann-Kendall trend test include the following:

- Upgradient of HCS (south): At monitoring wells in the southern impacted area, concentrations of TCE, total DCE, and VC (where present above applicable screening levels) are statistically significantly decreasing or show no trend. The two exceptions are MW-02, where total DCE shows a statistically significant increasing trend, and MW-10, where VC shows a statistically significant increasing trend. These two wells are located upgradient of the HCS system along the core of the southern impacted area. Groundwater impacts associated with these two monitoring wells are captured by the HCS system.
- Upgradient of HCS (north): VC concentration trends at monitoring wells upgradient of the HCS in the northern impacted area are statistically significantly decreasing, except for a statistically significant increasing trend at MW-50.
- Downgradient of the HCS (on site): Concentrations of VC at each monitoring well located downgradient of the HCS system exhibit no trend, except for MW-43 and MW-52, which show statistically significant decreasing trends.
- Downgradient of the HCS (off site): Concentrations of VC at each monitoring well located off site show no trend, except for MW-72, MW-75D, MW-79D, MW-80S, and MW-85, which show statistically significant decreasing trends.

Except for a limited number of on-site upgradient monitoring well and constituent combinations that show statistically significant increasing trends (total DCE at MW-02 and VC at MW-10), the observations and measurements to date indicate that the groundwater impacts are stable and/or statistically decreasing. Results of this evaluation provide a key line of evidence to indicate that the HCS system prevents further migration of groundwater impacts to the east of the HCS.

3.5 Summary of Hydraulic Control System Compliance Actions

Compliance sampling for the HCS GLWA discharge permit was completed each month. Samples were collected after treatment and before groundwater discharge. Samples were analyzed for constituents required by the discharge permit. **Exhibit 4** below depicts the sampling parameters, methods, and discharge limits monitored for compliance with the GLWA discharge permit. Results from all monthly compliance samples were within discharge limits since system startup. Self-Monitoring Reports (SMRs) are submitted to the GLWA every 6 months to document discharge compliance.

Exhibit 4: GLWA Discharge Limitations for HCS

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Parameter	Analytical Method	Discharge Limit
Cadmium (Cd)	USEPA 200.7 – Metals	1.0 milligrams per liter (mg/L)
Chromium (Cr)	USEPA 200.7 – Metals	25 mg/L
Copper (Cu)	USEPA 200.7 – Metals	2.5 mg/L
Lead (Pb)	USEPA 200.7 – Metals	1.0 mg/L
Nickel (Ni)	USEPA 200.7 – Metals	5.0 mg/L
Mercury (Hg)	USEPA 245.1 - Mercury	Non-Detect
Silver (Ag)	USEPA 200.7	1.0 mg/L
Zinc (Zn)	USEPA 200.7	7.3 mg/L
Total polychlorinated biphenyls (PCBs)	USEPA 608.3	Non-Detect
Total Toxic Organics	USEPA 624.1 - VOCs USEPA 625.1 – Semi-Volatile Organic Compounds (SVOCs) USEPA 625.1 Dioxin Screen USEPA 1613B – Dioxins and Furans	20 µg/L

In addition, the GLWA discharge permit limits the discharge volume of the HCS to 100,800 gallons per day (gpd) and/or 70 gpm. Discharge volumes, documented daily and tabulated monthly, were within discharge limits since system startup.

Tabulated discharge volumes for the 2Q 2019 reporting period are presented in **Table 8**.

During the reporting period, monthly vapor samples were collected and analyzed for VOCs using the USEPA Method TO-15 for documenting compliance with the Rule 290 air permitting exemption of the Michigan Air Pollution Control Rules. All vapor emissions have been within discharge limits since system startup. Rule 290 emissions calculations are documented monthly and available upon request.

3.6 Interim Sub-Slab Depressurization System Operation and Compliance Actions

The SSDS performance is continually evaluated and monitored. System shutdowns are documented and resolved as detailed below. Vapor analytical samples are collected monthly to verify destruction efficiency of the catalytic oxidizer and document emissions compliance with the Rule 290 air permitting exemption of the Michigan Air Pollution Control Rules.

During the reporting period, monthly vapor samples were collected and analyzed for VOCs using USEPA Method TO-15. All vapor emissions have been within discharge limits since system startup. Rule 290 emissions calculations are documented monthly and available upon request.

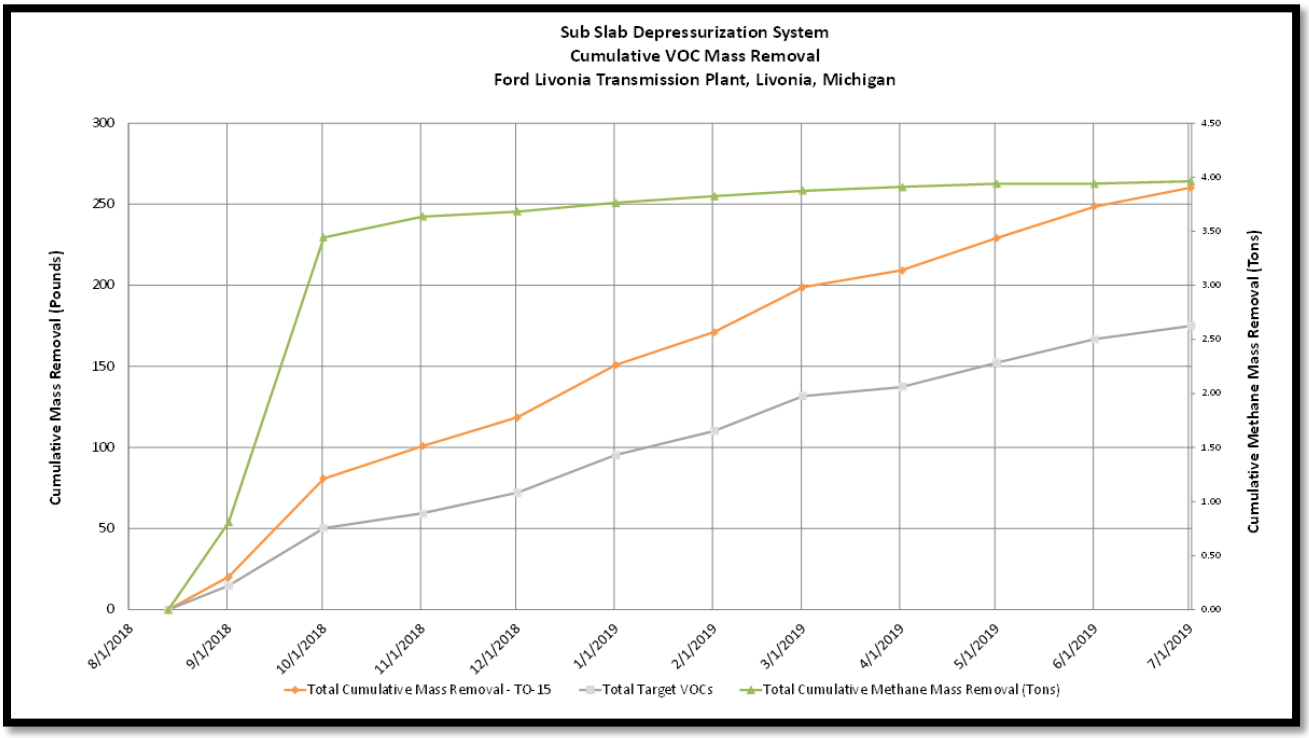
The SSDS did not have any unexpected downtime during the reporting period, though the system was shut down manually in May to complete performance monitoring. **Exhibit 5** below describes the approximate duration and date of the shutdown. **Exhibit 6** below depicts the cumulative constituent-specific mass removal of VOCs from sub-slab soil vapor through the 2Q 2019 reporting period.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Exhibit 5: SSDS Shutdown Summary – 2Q 2019

Date of Shutdown	Duration of Shutdowns	Summary of Shutdown
15- May – 19	Less than 24 hours	System temporarily shut down to allow field staff to conduct performance monitoring. Operation resumed on the next day. Total shutdown time was approximately 15.5 hours.

Exhibit 6: SSDS Mass Removal – 2Q 2019



This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

4 ACCESS AGREEMENTS

In 2Q 2019, no additional access was required. Ford continues to negotiate in good faith to obtain access to the remaining two residential properties for indoor air sampling. In addition, Arcadis has requested access to one additional property west of the site to further delineate groundwater impacts.

5 OTHER RELEVANT INFORMATION

5.1 Due Care Obligations

Response activities and plant activities are ongoing and maintaining the due care obligation. In addition, Arcadis performs weekly ambient air monitoring throughout the plant to identify potential methane breakthrough. The monitoring is biased towards locations where piping or conduits come through the slab and move above grade.

5.2 Public Outreach

Ford currently has an active website that allows the general public access to project updates: http://www.fordlivoniabostonbeaconproject.com. In addition, multiple meetings and/or site visits were held with EGLE during 2Q 2019 on the following dates:

- Ford established a Value Assurance Program to protect the value of eligible properties on April 5, 2019.
- EGLE held a teleconference on April 9, 2019.
- EGLE held a teleconference on April 15, 2019.
- A Community Liaison was provided to residents on June 3, 2019.
- Updated Public Outreach Plan was submitted to EGLE on June 28, 2019.

Additionally, during work implementation, Arcadis continues to communicate with EGLE and off-site property owners.

5.3 List of Reporting Documents

A list of all reporting documents submitted during the 2Q 2019 reporting period is included in **Exhibit 6** below.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Exhibit 6: Submitted Reporting Documents – 2Q 2019

Report Title	Submission Date
Laboratory Memo	April 16, 2019
Extension Request to EGLE	April 17, 2019
1Q 2019 Progress Report	May 2, 2019
Response to EGLE	May 15, 2019
Response to EGLE	May 17, 2019
Response to EGLE	May 24, 2019
Response to EGLE	May 30, 2019
EGLE Update Letter	June 7, 2019
Updated Public Outreach Plan	June 28, 2019

6 WASTE MANAGEMENT

All investigation-derived waste, construction debris, or other waste is properly stored in labelled containers (e.g., 55-gallon drum, frac tank) pending off-site disposal. All waste is managed by Ford and Clean Harbors. Clean Harbors is the Total Waste Manager (TWM) for the site. All purge water generated during the groundwater sampling event is containerized in buckets and passed through the groundwater treatment system on site. In 2Q 2019, 93 soil drums and 92 water drums were disposed of.

7 PROPOSED SCHEDULE

Future response activities are scheduled as follows:

Exhibit 8: Response Activity Schedule

Response Activity	Proposed Schedule	Anticipated Completion
3Q 2019 On-site groundwater sampling	September 2019	September 2019
3Q 2019 Off-site groundwater sampling	August 2019	September 2019
3Q 2019 Off-site soil gas sampling	September 2019	September 2019
HCS performance monitoring	Monthly	Ongoing
SSDS performance monitoring	Monthly	Ongoing
Off-Site Groundwater Delineation	Ongoing	Ongoing
Off-Site Vapor Intrusion Investigation	Ongoing	Ongoing
Off-Site Mitigation Response	Ongoing	3Q 2019

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

8 REFERENCES

Arcadis. 2017a. Quality Assurance Project Plan for the Ford Livonia Transmission Plant – On-Site. August.

Arcadis. 2017b. Quality Assurance Project Plan for the Ford Livonia Transmission Plant – Off-Site. August.

Michigan Department of Environmental Quality (MDEQ). 2013. Vapor Intrusion Technical Guidance. January.

USEPA. 2008. A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems. U.S. Environmental Protection Agency, Washington, DC, EPA/600/R-08/003

USEPA. 2015. Technical Guide for Addressing Petroleum Vapor Intrusion at Leaking Underground Storage Tank Sites. June.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

TABLES

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
LMW-15-01	673.98	7-12	11/16/15	8.42	11.36	12.00	665.56	2.94	662.62	664.97
			11/25/15	8.44	11.35	12.00	665.54	2.91	662.63	664.96
			11/30/15	8.38	11.36	12.00	665.60	2.98	662.62	665.01
			12/08/15	8.35	11.35	12.00	665.63	3.00	662.63	665.03
			11/06/17	Could Not Open						
			02/05/18							
			05/07/18	8.34	10.44	NM	665.64	2.10	663.54	665.22
			08/16/18	8.48	10.82	NM	665.50	2.34	663.16	665.03
			11/19/18	8.30	11.30	NM	665.68	3.00	662.68	665.08
			02/22/19	8.36	10.30	11.66	665.62	1.94	663.68	665.23
			06/14/19	8.21	9.42	11.70	665.77	1.21	664.56	665.53
LMW-15-02	673.90	7-12	11/16/15	7.70	10.10	12.00	666.20	2.40	663.80	665.72
			11/25/15	7.68	9.83	12.00	666.22	2.15	664.07	665.79
			11/30/15	7.66	9.84	12.00	666.24	2.18	664.06	665.80
			12/09/15	7.60	9.76	12.00	666.30	2.16	664.14	665.86
			11/06/17	8.39	11.13	NM	665.51	2.74	662.77	664.96
			02/05/18	8.54	11.02	NM	665.36	2.48	662.88	664.86
			05/07/18	8.31	9.91	NM	665.59	1.60	663.99	665.27
			08/16/18	8.34	9.56	NM	665.56	1.22	664.34	665.31
			11/19/18	8.38	11.32	NM	665.52	2.94	662.58	664.93
			02/22/19	8.35	10.34	11.67	665.55	1.99	663.56	665.15
			06/14/19	8.18	9.01	11.70	665.72	0.83	664.89	665.55
LMW-15-03	670.18	7-12	11/16/15	6.01	7.46	12.00	664.17	1.45	662.72	663.88
			11/25/15	5.92	7.04	12.00	664.26	1.12	663.14	664.04
			11/30/15	5.81	6.94	12.00	664.37	1.13	663.24	664.14
			12/11/15	5.83	7.26	12.00	664.35	1.43	662.92	664.06
			11/06/17	6.36	7.49	NM	663.82	1.13	662.69	663.59
			02/05/18	6.62	8.41	NM	663.56	1.79	661.77	663.20
			05/07/18	6.03	7.06	NM	664.15	1.03	663.12	663.94
			08/16/18	6.19	6.41	NM	663.99	0.22	663.77	663.95
			11/19/18	NM	NM	NM	NA	NA	NA	NA
			02/22/19	6.38	7.49	11.33	667.54	1.11	662.69	663.58
			06/14/19	5.80	6.85	11.73	668.12	1.05	663.33	664.17
LMW-15-04	673.92	6-11	11/16/15	7.10	8.79	11.00	666.82	1.69	665.13	666.48
			11/25/15	7.10	8.79	11.00	666.82	1.69	665.13	666.48
			11/30/15	7.06	8.79	11.00	666.86	1.73	665.13	666.52
			12/09/15	7.00	8.86	11.00	666.92	1.86	665.06	666.55
			11/06/17	Could Not Open						
			02/05/18							
			05/07/18	7.68	9.20	NM	666.24	1.52	664.72	665.94
			08/16/18	7.60	9.28	NM	666.32	1.68	664.64	665.99
			11/19/18	7.64	9.20	NM	666.28	1.56	664.72	665.97
			02/22/19	7.69	9.19	10.79	666.23	1.50	664.73	665.93
			06/14/19	7.44	8.97	11.22	666.48	1.53	664.95	666.18
LMW-15-05	673.93	7-12	11/16/15	8.50	10.20	12.00	665.43	1.70	663.73	665.09
			11/25/15	8.50	9.99	12.00	665.43	1.49	663.94	665.14
			11/30/15	8.47	9.98	12.00	665.46	1.51	663.95	665.16
			12/08/15	8.42	9.92	12.00	665.51	1.50	664.01	665.21
			11/06/17	Could Not Locate						
			02/05/18							
			05/07/18							
			08/16/18	8.98	10.53	NM	664.95	1.55	663.40	664.64
			11/19/18	8.91	10.38	NM	665.02	1.47	663.55	664.73
			02/22/19	8.99	10.49	11.85	664.94	1.50	663.44	664.64
			06/14/19	8.66	10.00	11.83	665.27	1.34	663.93	665.01
LMW-15-06	673.93	7-12	11/16/15	6.92	8.82	12.00	667.01	1.90	665.11	666.63
			11/25/15	6.89	8.52	12.00	667.04	1.63	665.41	666.72
			11/30/15	6.74	8.39	12.00	667.19	1.65	665.54	666.86
			12/09/15	6.62	8.40	12.00	667.31	1.78	665.53	666.96
			11/06/17	Could Not Open						
			02/05/18							
			05/07/18	6.57	8.16	NM	667.36	1.59	665.77	667.05
			08/16/18	6.93	8.64	NM	667.00	1.71	665.29	666.66
			11/19/18	6.88	8.40	NM	667.05	1.52	665.53	666.75
			02/22/19	6.79	8.42	11.50	667.14	1.63	665.51	666.82
			06/14/19	6.35	8.10	11.53	667.58	1.75	665.83	667.23

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
LMW-15-07	673.52	7-12	11/16/15	NP	7.70	12.00	NA	NA	665.82	665.82
			11/25/15	NP	7.32	12.00	NA	NA	666.20	666.20
			11/30/15	7.14	7.15	12.00	666.38	0.01	666.37	666.38
			12/11/15	7.08	7.09	12.00	666.44	0.01	666.43	666.44
			11/06/17	7.43	7.53	NM	666.09	0.10	665.99	666.07
			02/05/18	Could Not Locate						
			05/07/18							
			08/16/18	7.22	7.34	NM	666.30	0.12	666.18	666.28
			11/19/18	Could Not Locate						
			02/22/19							
			06/14/19	6.31	6.40	11.70	667.21	0.09	667.12	667.19
LMW-15-08	673.88	7.5-12.5	11/16/15	NP	6.30	12.50	NA	NA	667.58	667.58
			11/25/15	6.25	6.26	12.50	667.63	0.01	667.62	667.63
			11/30/15	6.12	6.13	12.50	667.76	0.01	667.75	667.76
			12/11/15	6.09	6.10	12.50	667.79	0.01	667.78	667.79
			11/06/17	Could Not Open						
			02/05/18							
			05/07/18	5.72	7.35	NM	668.16	1.63	666.53	667.84
			08/16/18	6.04	7.72	NM	667.84	1.68	666.16	667.51
			11/19/18	5.83	7.59	NM	668.05	1.76	666.29	667.70
			02/22/19	5.92	7.59	12.34	667.96	1.67	666.29	667.63
			06/14/19	Could Not Locate						
LMW-15-09	673.93	7-12	11/16/15	7.82	10.62	12.00	666.11	2.80	663.31	665.55
			11/25/15	7.76	10.51	12.00	666.17	2.75	663.42	665.62
			11/30/15	7.72	10.32	12.00	666.21	2.60	663.61	665.69
			12/10/15	7.73	10.38	12.00	666.20	2.65	663.55	665.67
			11/06/17	8.29	NA	11.75	665.64	3.71	NA	NA**
			02/05/18	8.58	10.50	NM	665.35	1.92	663.43	664.96
			05/07/18	7.95	9.39	NM	665.98	1.44	664.54	665.69
			08/16/18	8.12	10.45	NM	665.81	2.33	663.48	665.34
			11/19/18	8.04	10.01	NM	665.89	1.97	663.92	665.49
			02/22/19	8.09	10.40	11.70	665.84	2.31	663.53	665.38
			06/14/19	Could Not Open						
LMW-15-10	673.89	7-12	11/16/15	8.40	9.26	12.00	665.49	0.86	664.63	665.32
			11/25/15	8.32	9.13	12.00	665.57	0.81	664.76	665.41
			11/30/15	8.24	8.96	12.00	665.65	0.72	664.93	665.51
			12/10/15	8.18	8.79	12.00	665.71	0.61	665.10	665.59
			11/06/17	8.69	9.50	NM	665.20	0.81	664.39	665.04
			02/05/18	8.50	8.58	NM	665.39	0.08	665.31	665.38
			05/07/18	8.15	8.28	NM	665.74	0.13	665.61	665.72
			08/16/18	8.47	9.16	NM	665.42	0.69	664.73	665.29
			11/19/18	Could Not Locate						
			02/22/19	8.34	8.65	11.50	665.55	0.31	665.24	665.49
			06/14/19	Could Not Locate						
MW-15-59D	675.17	94-99	01/07/16	NP	21.83	99.00	NA	NA	653.34	653.34
			01/19/16	NP	21.91	99.00	NA	NA	653.26	653.26
			04/19/17	NP	21.37	99.37	NA	NA	653.80	653.80
			07/24/17	NP	28.71	100.80	NA	NA	646.46	646.46
			11/06/17	NP	24.48	100.65	NA	NA	650.69	650.69
			02/05/18	NP	21.44	100.01	NA	NA	653.73	653.73
			05/07/18	NP	23.48	NM	NA	NA	651.69	651.69
			08/16/18	NP	30.45	NM	NA	NA	644.72	644.72
			11/19/18	NP	22.90	NM	NA	NA	652.27	652.27
			02/22/19	NP	21.29	100.02	NA	NA	653.88	653.88
			06/14/19	NM	NM	NM	NA	NA	NA	NA
MW-15-60D	675.75	93-98	01/07/16	NP	19.47	100.00	NA	NA	656.28	656.28
			01/19/16	NP	19.71	100.00	NA	NA	656.04	656.04
			04/19/17	NP	18.65	99.50	NA	NA	657.10	657.10
			07/24/17	NP	24.09	99.92	NA	NA	651.66	651.66
			11/06/17	NP	20.63	99.92	NA	NA	655.12	655.12
			02/05/18	NP	19.61	99.42	NA	NA	656.14	656.14
			05/07/18	NP	19.31	NM	NA	NA	656.44	656.44
			08/16/18	NP	23.85	NM	NA	NA	651.90	651.90
			11/19/18	NP	19.97	NM	NA	NA	655.78	655.78
			02/22/19	NP	19.41	99.46	NA	NA	656.34	656.34
			06/14/19	NP	19.53	99.11	NA	NA	656.22	656.22

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-15-61D	670.03	88-93	01/07/16	NP	76.49	93.00	NA	NA	593.54	593.54
			01/08/16	NP	88.02	93.00	NA	NA	582.01	582.01
			01/19/16	NP	73.23	93.00	NA	NA	596.80	596.80
			01/20/16	NP	89.31	93.00	NA	NA	580.72	580.72
			01/26/16	NP	84.09	93.00	NA	NA	585.94	585.94
			01/27/16	NP	82.42	93.00	NA	NA	587.61	587.61
			01/28/16	NP	80.71	93.00	NA	NA	589.32	589.32
			04/19/17	NP	24.71	93.87	NA	NA	645.32	645.32
			07/24/17	NP	24.74	94.09	NA	NA	645.29	645.29
			11/06/17	NP	26.58	94.72	NA	NA	643.45	643.45
			02/06/18	NP	25.79	94.71	NA	NA	644.24	644.24
			05/07/18	NP	25.63	94.24	NA	NA	644.40	644.40
			08/16/18	NP	56.16	NM	NA	NA	613.87	613.87
			11/19/18	NP	36.37	NM	NA	NA	633.66	633.66
			03/02/19	NP	21.90	92.85	NA	NA	648.13	648.13
			06/14/19	Could Not Access, high traffic roadway						
MW-1	670.77	14-19	04/17/17	NP	3.82	18.61	NA	NA	666.95	666.95
			07/24/17	NP	3.57	18.44	NA	NA	667.20	667.20
			11/06/17	NP	3.93	18.78	NA	NA	666.84	666.84
			02/05/18	NP	NM[2]	NM[2]	NA[2]	NA[2]	NA[2]	NA[2]
			05/07/18	NP	3.88	18.60	NA	NA	666.89	666.89
			08/16/18	NP	3.73	NM	NA	NA	667.04	667.04
			11/19/18	NP	3.30	NM	NA	NA	667.47	667.47
			03/01/19	NP	4.77	18.53	NA	NA	666.00	666.00
			06/14/19	NP	3.17	18.64	NA	NA	667.60	667.60
MW-2	673.80	15.5-20.5	05/12/16	NP	6.35	19.52	NA	NA	667.45	667.45
			04/17/17	NP	6.91	19.45	NA	NA	666.89	666.89
			07/24/17	NP	6.99	19.44	NA	NA	666.81	666.81
			11/06/17	NP	7.24	19.50	NA	NA	666.56	666.56
			02/05/18	NP	7.42	19.55	NA	NA	666.38	666.38
			05/07/18	NP	6.92	19.47	NA	NA	666.88	666.88
			08/16/18	NP	7.03	NM	NA	NA	666.77	666.77
			11/19/18	NP	6.56	NM	NA	NA	667.24	667.24
			03/01/19	NP	6.90	19.42	NA	NA	666.90	666.90
			06/14/19	NP	6.69	19.50	NA	NA	667.11	667.11
MW-3	673.61	14-19	05/12/16	NP	5.82	18.79	NA	NA	667.79	667.79
			04/17/17	NP	7.09	18.72	NA	NA	666.52	666.52
			07/24/17	NP	7.29	18.43	NA	NA	666.32	666.32
			11/06/17	NP	7.61	18.80	NA	NA	666.00	666.00
			02/05/18	NP	7.70	18.87	NA	NA	665.91	665.91
			05/07/18	NP	7.23	18.74	NA	NA	666.38	666.38
			08/16/18	NP	7.48	NM	NA	NA	666.13	666.13
			11/19/18	NP	7.34	NM	NA	NA	666.27	666.27
			02/22/19	7.25	7.27	18.78	666.36	0.02	666.34	666.36
			06/14/19	NP	7.10	18.64	NA	NA	666.51	666.51
MW-4	673.85	15.5-20.5	05/13/16	NP	7.15	20.20	NA	NA	666.70	666.70
			04/17/17	NP	7.57	20.09	NA	NA	666.28	666.28
			07/24/17	NP	7.61	19.93	NA	NA	666.24	666.24
			11/06/17	NP	7.94	20.05	NA	NA	665.91	665.91
			02/05/18	NP	8.50	20.16	NA	NA	665.35	665.35
			05/07/18	NP	7.60	20.12	NA	NA	666.25	666.25
			08/16/18	NP	7.73	NM	NA	NA	666.12	666.12
			11/19/18	NP	7.59	NM	NA	NA	666.26	666.26
			02/22/19	7.64	7.67	19.93	666.21	0.03	666.18	666.20
			06/14/19	NP	7.39	20.15	NA	NA	666.46	666.46
MW-5*	674.40	15.5-20.5	05/13/16	NP	6.49	21.73	NA	NA	667.91	667.91
			07/24/17	NP	NM	NM	NA	NA	NA	NA
			11/06/17	NP	7.51	19.71	NA	NA	666.89	666.89
			02/05/18	NP	7.70	19.54	NA	NA	666.70	666.70
			05/07/18	NP	7.26	19.63	NA	NA	667.14	667.14
			08/16/18	NP	7.36	NM	NA	NA	667.04	667.04
			11/19/18	NP	7.20	NM	NA	NA	667.20	667.20
			02/22/19	7.22	7.23	19.63	667.18	0.01	667.17	667.18
			06/14/19	NP	7.00	19.68	NA	NA	667.40	667.40

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-7	670.89	18-23	07/24/17	NP	4.79	22.39	NA	NA	666.10	666.10
			11/06/17	NP	5.24	22.56	NA	NA	665.65	665.65
			02/06/18	NP	4.48	22.50	NA	NA	666.41	666.41
			05/07/18	NP	4.54	22.35	NA	NA	666.35	666.35
			08/16/18	NP	4.81	NM	NA	NA	666.08	666.08
			11/19/18	NP	4.59	NM	NA	NA	666.30	666.30
			02/22/19	NP	4.65	22.55	NA	NA	666.24	666.24
			06/14/19	NP	4.25	22.40	NA	NA	666.64	666.64
MW-9	671.18	19.5-24.5	05/09/16	NP	5.82	24.34	NA	NA	665.36	665.36
			04/17/17	NP	6.79	24.34	NA	NA	664.39	664.39
			07/24/17	NP	5.88	24.29	NA	NA	665.30	665.30
			11/06/17	NP	6.38	24.53	NA	NA	664.80	664.80
			02/05/18	NP	6.40	24.35	NA	NA	664.78	664.78
			05/07/18	NP	5.65	24.20	NA	NA	665.53	665.53
			08/16/18	NP	5.94	NM	NA	NA	665.24	665.24
			11/19/18	NP	5.66	NM	NA	NA	665.52	665.52
			02/22/19	NP	5.74	24.35	NA	NA	665.44	665.44
			06/14/19	NP	5.42	24.25	NA	NA	665.76	665.76
MW-10	673.78	16.5-21.5	05/13/16	NP	8.16	20.81	NA	NA	665.62	665.62
			04/17/17	NP	8.15	20.81	NA	NA	665.63	665.63
			07/24/17	NP	8.58	20.76	NA	NA	665.20	665.20
			11/06/17	NP	6.00	20.84	NA	NA	667.78	667.78
			02/05/18	NP	9.01	15.89	NA	NA	664.77	664.77
			05/07/18	NP	8.68	20.24	NA	NA	665.10	665.10
			08/16/18	NP	8.68	NM	NA	NA	665.10	665.10
			11/19/18	NP	8.49	NM	NA	NA	665.29	665.29
			02/22/19	NP	8.56	10.77	NA	NA	665.22	665.22
			06/14/19	NP	8.30	20.78	NA	NA	665.48	665.48
MW-14	671.24	15-20	07/24/17	NP	6.63	19.53	NA	NA	664.61	664.61
			11/06/17	NP	7.01	19.61	NA	NA	664.23	664.23
			02/05/18	NP	7.29	19.80	NA	NA	663.95	663.95
			05/07/18	NP	6.14	19.65	NA	NA	665.10	665.10
			08/16/18	NP	6.52	NM	NA	NA	664.72	664.72
			11/19/18	NP	6.19	NM	NA	NA	665.05	665.05
			02/26/19	NP	6.21	19.49	NA	NA	665.03	665.03
			06/14/19	NP	6.91	19.41	NA	NA	664.33	664.33
MW-18	670.41	13-18	05/09/16	NP	6.29	17.89	NA	NA	664.12	664.12
			04/17/17	NP	6.67	17.90	NA	NA	663.74	663.74
			07/24/17	NP	6.92	17.70	NA	NA	663.49	663.49
			11/06/17	NP	7.31	17.80	NA	NA	663.10	663.10
			02/06/18	NP	7.45	17.85	NA	NA	662.96	662.96
			05/04/18	NP	6.53	18.01	NA	NA	663.88	663.88
			08/16/18	NP	6.82	NM	NA	NA	663.59	663.59
			11/19/18	NP	6.45	17.92	NA	NA	663.96	663.96
			02/22/19	NP	6.76	18.01	NA	NA	663.65	663.65
			06/14/19	NP	6.14	17.82	NA	NA	664.27	664.27
MW-19	669.65	15-20	05/13/16	LNAPL						
			04/17/17							
			07/24/17							
			11/06/17	NP	5.91	19.85	NA	NA	663.74	663.74
			02/05/18	NP	6.23	19.84	NA	NA	663.42	663.42
			05/07/18	NP	5.51	19.98	NA	NA	664.14	664.14
			08/16/18	NP	5.67	NM	NA	NA	663.98	663.98
			11/19/18	NP	NM	NM	NA	NA	NA	NA
			02/22/19	NP	6.47	19.49	NA	NA	663.18	663.18
			06/14/19	NP	5.31	19.97	NA	NA	664.34	664.34
MW-20	669.33	13.5-18.5	07/24/17	NP	6.29	16.98	NA	NA	663.04	663.04
			11/06/17	NP	6.52	16.84	NA	NA	662.81	662.81
			02/05/18	NP	6.68	16.62	NA	NA	662.65	662.65
			05/11/18	NP	5.95	16.48	NA	NA	663.38	663.38
			08/16/18	NP	5.70	NM	NA	NA	663.63	663.63
			11/19/18	NP	5.49	16.00	NA	NA	663.84	663.84
			02/22/19	NP	5.97	15.81	NA	NA	663.36	663.36
			06/14/19	NP	4.95	15.42	NA	NA	664.38	664.38

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-21*	670.76	13.5-18.5	05/13/16	Could Not Open						
			04/17/17							
			07/24/17							
			11/06/17							
			02/06/18	NP	7.95	17.74	NA	NA	662.81	662.81
			05/07/18	NP	7.15	17.60	NA	NA	663.61	663.61
			08/16/18	NP	6.65	NM	NA	NA	664.11	664.11
			11/19/18	NP	6.85	17.71	NA	NA	663.91	663.91
			02/22/19	NP	7.40	17.60	NA	NA	663.36	663.36
			06/14/19	NP	6.57	18.60	NA	NA	664.19	664.19
MW-22	670.18	16.5-21.5	05/10/16	NP	6.18	20.83	NA	NA	664.00	664.00
			04/17/17	NP	7.13	21.41	NA	NA	663.05	663.05
			07/24/17	NP	7.53	20.42	NA	NA	662.65	662.65
			11/06/17	NP	7.51	20.51	NA	NA	662.67	662.67
			02/05/18	NP	7.61	20.48	NA	NA	662.57	662.57
			05/07/18	NP	6.66	20.50	NA	NA	663.52	663.52
			08/16/18	NP	6.71	NM	NA	NA	663.47	663.47
			11/19/18	NP	7.14	NM	NA	NA	663.04	663.04
			02/22/19	NP	7.54	20.45	NA	NA	662.64	662.64
			06/14/19	NP	6.53	20.48	NA	NA	663.65	663.65
MW-23	669.24	15-20	05/09/16	NP	6.23	19.82	NA	NA	663.01	663.01
			04/17/17	NP	6.67	19.79	NA	NA	662.57	662.57
			07/24/17	NP	6.69	19.72	NA	NA	662.55	662.55
			11/06/17	NP	6.60	19.72	NA	NA	662.64	662.64
			02/06/18	NP	6.93	NM	NA	NA	662.31	662.31
			05/07/18	NP	5.67	19.70	NA	NA	663.57	663.57
			08/16/18	NP	5.80	NM	NA	NA	663.44	663.44
			11/19/18	NP	5.75	NM	NA	NA	663.49	663.49
			02/22/19	Could Not Access, covered by ice/snow						
			06/14/19	NP	5.33	19.46	NA	NA	663.91	663.91
MW-24	675.48	19-24	04/17/17	NP	9.32	23.85	NA	NA	666.16	666.16
			07/24/17	NP	10.01	23.90	NA	NA	665.47	665.47
			11/06/17	NP	10.40	23.76	NA	NA	665.08	665.08
			02/05/18	NP	10.37	23.99	NA	NA	665.11	665.11
			05/07/18	NP	9.38	23.70	NA	NA	666.10	666.10
			08/16/18	NP	10.01	NM	NA	NA	665.47	665.47
			11/19/18	NP	9.56	NM	NA	NA	665.92	665.92
			02/22/19	NP	9.55	23.95	NA	NA	665.93	665.93
			06/14/19	NP	9.21	23.73	NA	NA	666.27	666.27
MW-25	675.04	16-21	04/17/17	NP	5.35	20.54	NA	NA	669.69	669.69
			07/24/17	NP	6.34	20.52	NA	NA	668.70	668.70
			11/06/17	NP	6.51	20.38	NA	NA	668.53	668.53
			02/05/18	NP	6.55	20.52	NA	NA	668.49	668.49
			05/07/18	NP	4.98	20.25	NA	NA	670.06	670.06
			08/16/18	NP	6.19	NM	NA	NA	668.85	668.85
			11/19/18	NP	5.77	NM	NA	NA	669.27	669.27
			02/22/19	NP	5.51	20.48	NA	NA	669.53	669.53
			06/14/19	NP	4.89	20.52	NA	NA	670.15	670.15
MW-26	673.39	4.5-14.5	07/24/17	NP	5.96	14.09	NA	NA	667.43	667.43
			11/06/17	NP	6.09	14.10	NA	NA	667.30	667.30
			02/05/18	NP	6.08	14.05	NA	NA	667.31	667.31
			05/07/18	NP	5.24	13.90	NA	NA	668.15	668.15
			08/16/18	NP	5.98	NM	NA	NA	667.41	667.41
			11/19/18	NP	5.52	NM	NA	NA	667.87	667.87
			02/28/19	NP	4.55	14.50	NA	NA	668.84	668.84
			06/14/19	NP	5.01	14.05	NA	NA	668.38	668.38
MW-27*	Well Inaccessible									

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-28	668.15	2-12	05/09/16	NP	3.21	11.81	NA	NA	664.94	664.94
			04/17/17	NP	3.78	11.69	NA	NA	664.37	664.37
			07/24/17	NP	4.61	11.73	NA	NA	663.54	663.54
			11/06/17	NP	4.81	11.68	NA	NA	663.34	663.34
			02/05/18	NP	4.63	11.65	NA	NA	663.52	663.52
			05/07/18	NP	3.67	11.67	NA	NA	664.48	664.48
			08/16/18	NP	4.64	NM	NA	NA	663.51	663.51
			11/19/18	NP	4.11	NM	NA	NA	664.04	664.04
			02/22/19	NP	3.98	11.64	NA	NA	664.17	664.17
			06/14/19	NP	3.50	11.65	NA	NA	664.65	664.65
MW-29	669.45	5-15	05/13/16	NP	4.10	14.85	NA	NA	665.35	665.35
			04/17/17	NP	4.53	14.84	NA	NA	664.92	664.92
			07/24/17	NP	5.41	14.90	NA	NA	664.04	664.04
			11/06/17	NP	6.65	15.81	NA	NA	662.80	662.80
			02/05/18	NP	5.52	14.84	NA	NA	663.93	663.93
			05/07/18	NP	4.64	14.80	NA	NA	664.81	664.81
			08/16/18	NP	5.44	NM	NA	NA	664.01	664.01
			11/19/18	NP	5.10	NM	NA	NA	664.35	664.35
			02/22/19	NP	5.09	14.87	NA	NA	664.36	664.36
			06/14/19	NM	NM	NM	NA	NA	NA	NA
MW-30	670.70	19-24	05/09/16	NP	9.37	24.82	NA	NA	661.33	661.33
			04/17/17	NP	9.86	24.78	NA	NA	660.84	660.84
			07/24/17	NP	9.93	24.73	NA	NA	660.77	660.77
			11/06/17	NP	10.47	24.84	NA	NA	660.23	660.23
			02/05/18	NP	10.31	24.69	NA	NA	660.39	660.39
			05/07/18	NP	9.03	24.70	NA	NA	661.67	661.67
			08/16/18	NP	9.51	NM	NA	NA	661.19	661.19
			11/19/18	NP	9.23	NM	NA	NA	661.47	661.47
			02/22/19	NP	9.45	24.91	NA	NA	661.25	661.25
			06/14/19	NP	8.50	24.74	NA	NA	662.20	662.20
MW-31	670.82	17-22	05/09/16	NP	9.96	21.75	NA	NA	660.86	660.86
			04/17/17	NP	10.13	21.78	NA	NA	660.69	660.69
			07/24/17	NP	10.19	21.69	NA	NA	660.63	660.63
			11/06/17	NP	10.65	21.92	NA	NA	660.17	660.17
			02/05/18	NP	10.70	21.48	NA	NA	660.12	660.12
			05/07/18	NP	9.23	21.67	NA	NA	661.59	661.59
			08/16/18	NP	9.58	NM	NA	NA	661.24	661.24
			11/19/18	NP	9.31	NM	NA	NA	661.51	661.51
			02/22/19	NP	9.69	21.66	NA	NA	661.13	661.13
			06/14/19	NP	8.58	21.68	NA	NA	662.24	662.24
MW-32	670.43	18-23	05/09/16	NP	9.64	22.92	NA	NA	660.79	660.79
			04/17/17	NP	9.52	22.91	NA	NA	660.91	660.91
			07/24/17	NP	9.71	22.71	NA	NA	660.72	660.72
			11/06/17	NP	10.18	23.03	NA	NA	660.25	660.25
			02/05/18	NP	10.17	22.78	NA	NA	660.26	660.26
			05/07/18	NP	8.73	22.83	NA	NA	661.70	661.70
			08/16/18	NP	9.07	NM	NA	NA	661.36	661.36
			11/19/18	NP	8.72	NM	NA	NA	661.71	661.71
			02/22/19	NP	9.19	19.93	NA	NA	661.24	661.24
			06/14/19	NP	8.00	22.73	NA	NA	662.43	662.43
MW-33	669.94	14-19	05/09/16	NP	8.68	18.76	NA	NA	661.26	661.26
			04/17/17	NP	8.76	18.75	NA	NA	661.18	661.18
			07/24/17	NP	8.84	19.72	NA	NA	661.10	661.10
			11/06/17	NP	8.58	19.08	NA	NA	661.36	661.36
			02/05/18	NP	8.63	18.74	NA	NA	661.31	661.31
			05/07/18	NP	7.34	18.66	NA	NA	662.60	662.60
			08/16/18	NP	7.59	NM	NA	NA	662.35	662.35
			11/19/18	NP	7.33	NM	NA	NA	662.61	662.61
			02/22/19	NP	7.95	18.83	NA	NA	661.99	661.99
			06/14/19	NP	6.90	18.69	NA	NA	663.04	663.04

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-34	670.49	16.5-21.5	05/09/16	NP	7.98	21.21	NA	NA	662.51	662.51
			04/17/17	NP	8.83	21.30	NA	NA	661.66	661.66
			07/24/17	NP	9.45	21.23	NA	NA	661.04	661.04
			11/06/17	NP	10.02	21.65	NA	NA	660.47	660.47
			02/05/18	NP	9.73	21.35	NA	NA	660.76	660.76
			05/07/18	NP	8.34	21.26	NA	NA	662.15	662.15
			08/16/18	NP	9.18	NM	NA	NA	661.31	661.31
			11/19/18	NP	8.79	NM	NA	NA	661.70	661.70
			02/22/19	NP	9.18	20.20	NA	NA	661.31	661.31
			06/14/19	NP	7.95	21.26	NA	NA	662.54	662.54
MW-35	669.44	19.5-24.5	05/09/16	NP	6.62	24.48	NA	NA	662.82	662.82
			04/17/17	NP	7.16	24.63	NA	NA	662.28	662.28
			07/24/17	NP	8.55	24.44	NA	NA	660.89	660.89
			11/06/17	NP	9.11	24.45	NA	NA	660.33	660.33
			02/05/18	NP	8.63	24.50	NA	NA	660.81	660.81
			05/07/18	NP	7.03	24.40	NA	NA	662.41	662.41
			08/16/18	NP	8.30	NM	NA	NA	661.14	661.14
			11/19/18	NP	7.76	NM	NA	NA	661.68	661.68
			02/22/19	NP	7.64	24.55	NA	NA	661.80	661.80
			06/14/19	NP	6.85	24.35	NA	NA	662.59	662.59
MW-36	676.39	20-25	07/24/17	NP	9.49	24.75	NA	NA	666.90	666.90
			11/06/17	NP	10.98	24.88	NA	NA	665.41	665.41
			02/05/18	NP	10.15	24.91	NA	NA	666.24	666.24
			05/07/18	NP	9.28	24.72	NA	NA	667.11	667.11
			08/16/18	NP	9.55	NM	NA	NA	666.84	666.84
			11/19/18	NP	9.34	NM	NA	NA	667.05	667.05
			02/22/19	NP	9.42	24.89	NA	NA	666.97	666.97
			06/14/19	NP	8.90	24.80	NA	NA	667.49	667.49
MW-37	671.24	18-23	07/24/17	NP	8.14	24.75	NA	NA	663.10	663.10
			11/06/17	NP	8.26	23.18	NA	NA	662.98	662.98
			02/05/18	NP	8.33	22.80	NA	NA	662.91	662.91
			05/07/18	NP	7.01	22.76	NA	NA	664.23	664.23
			08/16/18	NP	7.49	NM	NA	NA	663.75	663.75
			11/19/18	NP	7.13	NM	NA	NA	664.11	664.11
			02/22/19	NP	7.54	22.92	NA	NA	663.70	663.70
			06/14/19	NP	6.67	22.67	NA	NA	664.57	664.57
MW-38	671.79	15-20	04/17/17	NP	8.23	19.55	NA	NA	663.56	663.56
			07/24/17	NP	8.69	23.69	NA	NA	663.10	663.10
			11/06/17	NP	8.53	19.75	NA	NA	663.26	663.26
			02/05/18	NP	8.67	19.65	NA	NA	663.12	663.12
			05/07/18	NP	7.28	19.50	NA	NA	664.51	664.51
			08/16/18	NP	7.61	NM	NA	NA	664.18	664.18
			11/19/18	NP	7.40	NM	NA	NA	664.39	664.39
			02/22/19	NP	8.00	19.59	NA	NA	663.79	663.79
			06/14/19	NP	6.90	19.50	NA	NA	664.89	664.89
MW-39	672.19	19.5-24.5	04/19/17	NP	11.08	24.14	NA	NA	661.11	661.11
			07/24/17	NP	11.41	23.92	NA	NA	660.78	660.78
			11/06/17	NP	11.64	24.36	NA	NA	660.55	660.55
			02/05/18	NP	11.63	24.30	NA	NA	660.56	660.56
			05/07/18	NP	10.25	24.16	NA	NA	661.94	661.94
			08/16/18	NP	10.55	NM	NA	NA	661.64	661.64
			11/19/18	NP	10.24	NM	NA	NA	661.95	661.95
			02/22/19	NP	10.74	24.10	NA	NA	661.45	661.45
			06/14/19	NP	9.60	24.19	NA	NA	662.59	662.59
MW-40	670.65	15-20	05/09/16	NP	9.94	19.72	NA	NA	660.71	660.71
			04/19/17	NP	9.98	19.72	NA	NA	660.67	660.67
			07/24/17	NP	10.10	19.66	NA	NA	660.55	660.55
			11/06/17	NP	10.58	19.75	NA	NA	660.07	660.07
			02/05/18	NP	10.62	19.43	NA	NA	660.03	660.03
			05/07/18	NP	9.15	19.64	NA	NA	661.50	661.50
			08/16/18	NP	9.46	NM	NA	NA	661.19	661.19
			11/19/18	NP	9.13	NM	NA	NA	661.52	661.52
			02/22/19	NP	9.54	19.62	NA	NA	661.11	661.11
			06/14/19	NP	8.40	19.65	NA	NA	662.25	662.25

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-41	670.34	16-21	05/09/16	NP	8.20	20.97	NA	NA	662.14	662.14
			04/19/17	NP	8.97	20.99	NA	NA	661.37	661.37
			07/24/17	NP	9.39	20.78	NA	NA	660.95	660.95
			11/06/17	NP	9.96	21.25	NA	NA	660.38	660.38
			02/05/18	NP	9.75	20.85	NA	NA	660.59	660.59
			05/07/18	NP	8.35	20.94	NA	NA	661.99	661.99
			08/16/18	NP	9.06	NM	NA	NA	661.28	661.28
			11/19/18	NP	8.73	NM	NA	NA	661.61	661.61
			02/22/19	NP	8.81	20.93	NA	NA	661.53	661.53
			06/14/19	NP	7.80	20.95	NA	NA	662.54	662.54
MW-42	670.10	16-21	05/09/16	NP	7.29	11.52	NA	NA	662.81	662.81
			04/19/17	NP	8.01	20.48	NA	NA	662.09	662.09
			07/24/17	NP	9.13	20.43	NA	NA	660.97	660.97
			11/06/17	NP	9.76	20.77	NA	NA	660.34	660.34
			02/05/18	NP	9.32	20.55	NA	NA	660.78	660.78
			05/07/18	NP	7.81	20.43	NA	NA	662.29	662.29
			08/16/18	NP	8.94	NM	NA	NA	661.16	661.16
			11/19/18	NP	8.46	NM	NA	NA	661.64	661.64
			02/22/19	NP	8.42	19.42	NA	NA	661.68	661.68
			06/14/19	NP	7.56	20.44	NA	NA	662.54	662.54
MW-43	669.24	17-22	05/09/16	NP	6.34	21.85	NA	NA	662.90	662.90
			04/19/17	NP	6.80	26.82	NA	NA	662.44	662.44
			07/24/17	NP	8.34	21.79	NA	NA	660.90	660.90
			11/06/17	NP	8.92	21.98	NA	NA	660.32	660.32
			02/05/18	NP	8.42	21.80	NA	NA	660.82	660.82
			05/07/18	NP	6.78	21.76	NA	NA	662.46	662.46
			08/16/18	NP	8.17	NM	NA	NA	661.07	661.07
			11/19/18	NP	7.54	NM	NA	NA	661.70	661.70
			02/22/19	NP	7.34	21.95	NA	NA	661.90	661.90
			06/14/19	NP	6.55	21.54	NA	NA	662.69	662.69
MW-44	671.48	16-21	05/09/16	NP	6.59	17.42	NA	NA	664.89	664.89
			04/19/17	NP	7.48	19.95	NA	NA	664.00	664.00
			07/24/17	NP	8.38	20.93	NA	NA	663.10	663.10
			11/06/17	NP	8.55	20.74	NA	NA	662.93	662.93
			02/05/18	NP	8.51	20.90	NA	NA	662.97	662.97
			05/07/18	NP	7.40	20.75	NA	NA	664.08	664.08
			08/16/18	NP	8.01	NM	NA	NA	663.47	663.47
			11/19/18	NP	7.90	NM	NA	NA	663.58	663.58
			02/22/19	NP	8.20	20.72	NA	NA	663.28	663.28
			06/14/19	NP	7.38	20.73	NA	NA	664.10	664.10
MW-45	670.83	15-20	05/09/16	NP	14.22	19.81	NA	NA	656.61	656.61
			04/19/17	NP	11.45	19.67	NA	NA	659.38	659.38
			07/24/17	NP	11.07	19.76	NA	NA	659.76	659.76
			11/06/17	NP	9.82	19.75	NA	NA	661.01	661.01
			02/05/18	NP	10.30	19.72	NA	NA	660.53	660.53
			05/07/18	NP	9.43	19.99	NA	NA	661.40	661.40
			08/16/18	NP	9.02	NM	NA	NA	661.81	661.81
			11/19/18	NP	9.91	19.69	NA	NA	660.92	660.92
			02/22/19	NP	10.67	19.71	NA	NA	660.16	660.16
			06/14/19	NP	9.60	19.79	NA	NA	661.23	661.23
MW-46	670.84	16-21	05/09/16	NP	8.42	20.45	NA	NA	662.42	662.42
			04/19/17	NP	10.61	20.30	NA	NA	660.23	660.23
			07/24/17	NP	10.33	19.78	NA	NA	660.51	660.51
			11/06/17	NP	9.76	19.81	NA	NA	661.08	661.08
			02/05/18	NP	10.20	19.81	NA	NA	660.64	660.64
			05/07/18	NP	9.84	19.94	NA	NA	661.00	661.00
			08/16/18	NP	9.47	NM	NA	NA	661.37	661.37
			11/19/18	NP	10.18	19.63	NA	NA	660.66	660.66
			02/22/19	NP	10.79	19.64	NA	NA	660.05	660.05
			06/14/19	NP	9.48	19.87	NA	NA	661.36	661.36

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-47	671.33	16-21	05/09/16	NP	7.53	11.92	NA	NA	663.80	663.80
			04/19/17	NP	9.88	20.76	NA	NA	661.45	661.45
			07/24/17	NP	10.11	19.96	NA	NA	661.22	661.22
			11/06/17	NP	9.87	19.98	NA	NA	661.46	661.46
			02/05/18	NP	10.11	19.98	NA	NA	661.22	661.22
			05/07/18	NP	9.49	19.94	NA	NA	661.84	661.84
			08/16/18	NP	9.65	NM	NA	NA	661.68	661.68
			11/19/18	NP	10.02	19.93	NA	NA	661.31	661.31
			02/22/19	NP	10.50	19.92	NA	NA	660.83	660.83
			06/14/19	NM	NM	NM	NA	NA	NA	NA
MW-48	670.98	17-22	05/09/16	NP	6.33	21.76	NA	NA	664.65	664.65
			04/19/17	NP	8.93	21.62	NA	NA	662.05	662.05
			07/24/17	NP	9.70	20.42	NA	NA	661.28	661.28
			11/06/17	NP	9.33	20.34	NA	NA	661.65	661.65
			02/05/18	NP	10.08	20.35	NA	NA	660.90	660.90
			05/07/18	NP	8.84	20.60	NA	NA	662.14	662.14
			08/16/18	NP	9.34	NM	NA	NA	661.64	661.64
			11/19/18	NP	8.97	NM	NA	NA	662.01	662.01
			03/04/19	NP	9.80	20.40	NA	NA	661.18	661.18
			06/14/19	NP	8.64	20.26	NA	NA	662.34	662.34
MW-49	669.07	12.5-17.5	05/12/16	NP	6.57	17.31	NA	NA	662.50	662.50
			04/19/17	NP	7.03	17.31	NA	NA	662.04	662.04
			07/24/17	NP	6.94	17.37	NA	NA	662.13	662.13
			11/06/17	NM	NM	NM	NA	NA	NM	NM
			02/05/18	NP	7.32	17.44	NA	NA	661.75	661.75
			05/07/18	NP	6.88	17.28	NA	NA	662.19	662.19
			08/16/18	NP	6.39	NM	NA	NA	662.68	662.68
			11/19/18	NP	6.11	17.14	NA	NA	662.96	662.96
			02/22/19	NP	6.75	17.27	NA	NA	662.32	662.32
			06/14/19	NP	6.14	16.86	NA	NA	662.93	662.93
MW-50	670.16	16-21	05/09/16	NP	5.42	20.34	NA	NA	664.74	664.74
			04/19/17	NP	6.77	20.23	NA	NA	663.39	663.39
			07/24/17	NP	8.16	18.42	NA	NA	662.00	662.00
			11/06/17	NP	8.15	18.81	NA	NA	662.01	662.01
			02/05/18	NP	8.47	18.44	NA	NA	661.69	661.69
			05/07/18	NP	6.81	19.00	NA	NA	663.35	663.35
			08/16/18	NP	7.55	NM	NA	NA	662.61	662.61
			11/19/18	NP	7.44	NM	NA	NA	662.72	662.72
			02/22/19	NP	7.61	18.81	NA	NA	662.55	662.55
			06/14/19	NP	6.82	14.91	NA	NA	663.34	663.34
MW-51	671.07	15-20	04/19/17	NP	6.12	19.04	NA	NA	664.95	664.95
			07/24/17	NP	7.82	18.92	NA	NA	663.25	663.25
			11/06/17	NP	7.58	18.91	NA	NA	663.49	663.49
			02/05/18	NP	7.89	18.95	NA	NA	663.18	663.18
			05/07/18	NP	6.24	18.85	NA	NA	664.83	664.83
			08/16/18	NP	7.33	NM	NA	NA	663.74	663.74
			11/19/18	NP	7.05	NM	NA	NA	664.02	664.02
			03/01/19	NP	7.03	14.56	NA	NA	664.04	664.04
			06/14/19	NP	6.08	18.89	NA	NA	664.99	664.99
MW-52	669.16	15-20	05/09/16	NP	6.39	19.81	NA	NA	662.77	662.77
			04/19/17	NP	6.59	19.76	NA	NA	662.57	662.57
			07/24/17	NP	8.33	19.75	NA	NA	660.83	660.83
			11/06/17	NP	8.87	19.83	NA	NA	660.29	660.29
			02/05/18	NP	8.43	19.57	NA	NA	660.73	660.73
			05/07/18	NP	6.57	19.76	NA	NA	662.59	662.59
			08/16/18	NP	8.30	NM	NA	NA	660.86	660.86
			11/19/18	NP	7.52	NM	NA	NA	661.64	661.64
			02/22/19	NP	7.36	19.73	NA	NA	661.80	661.80
			06/14/19	NP	6.43	19.75	NA	NA	662.73	662.73

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[1] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-53	668.59	16-21	05/09/16	NP	6.05	20.85	NA	NA	662.54	662.54
			04/18/17	NP	6.03	20.83	NA	NA	662.56	662.56
			07/24/17	NP	7.92	20.63	NA	NA	660.67	660.67
			11/06/17	NP	8.35	21.08	NA	NA	660.24	660.24
			02/05/18	NP	7.98	20.68	NA	NA	660.61	660.61
			05/07/18	NP	6.08	20.81	NA	NA	662.51	662.51
			08/16/18	NP	7.87	NM	NA	NA	660.72	660.72
			11/19/18	NP	7.10	NM	NA	NA	661.49	661.49
			02/22/19	NP	6.73	20.62	NA	NA	661.86	661.86
			06/14/19	NP	5.98	20.62	NA	NA	662.61	662.61
MW-54	668.49	16-21	04/19/17	NP	6.01	20.86	NA	NA	662.48	662.48
			07/24/17	NP	8.08	20.52	NA	NA	660.41	660.41
			11/06/17	NP	8.17	20.71	NA	NA	660.32	660.32
			02/05/18	NP	7.96	20.56	NA	NA	660.53	660.53
			05/07/18	NP	6.09	20.82	NA	NA	662.40	662.40
			08/16/18	NP	8.01	NM	NA	NA	660.48	660.48
			11/19/18	NP	7.06	NM	NA	NA	661.43	661.43
			02/22/19	Could Not Access, covered by ice/snow						
			06/14/19	NP	5.90	20.82	NA	NA	662.59	662.59
MW-54S	668.24	4.5-9.5	06/14/19	NP	2.96	9.25	NA	NA	665.28	665.28
MW-55	670.04	15-20	04/19/17	NP	6.84	19.82	NA	NA	663.20	663.20
			07/24/17	NP	8.95	19.56	NA	NA	661.09	661.09
			11/06/17	NP	8.98	20.03	NA	NA	661.06	661.06
			02/05/18	NP	8.78	19.64	NA	NA	661.26	661.26
			05/07/18	NP	6.91	19.74	NA	NA	663.13	663.13
			08/16/18	NP	8.66	NM	NA	NA	661.38	661.38
			11/19/18	NP	7.86	NM	NA	NA	662.18	662.18
			02/22/19	NP	7.63	19.55	NA	NA	662.41	662.41
			06/14/19	NP	6.95	19.72	NA	NA	663.09	663.09
MW-55D	670.17	19-24	06/14/19	NP	7.04	23.82	NA	NA	663.13	663.13
MW-56	670.26	16-21	04/19/17	NP	6.67	20.69	NA	NA	663.59	663.59
			07/24/17	NP	8.18	20.58	NA	NA	662.08	662.08
			11/06/17	NP	8.37	20.76	NA	NA	661.89	661.89
			02/05/18	NP	8.08	20.59	NA	NA	662.18	662.18
			05/07/18	NP	6.62	26.44	NA	NA	663.64	663.64
			08/16/18	NP	7.95	NM	NA	NA	662.31	662.31
			11/19/18	NP	7.40	NM	NA	NA	662.86	662.86
			02/22/19	NP	7.19	20.39	NA	NA	663.07	663.07
			06/14/19	NP	6.68	20.41	NA	NA	663.58	663.58
MW-57	668.93	17-22	04/19/17	NP	5.89	21.72	NA	NA	663.04	663.04
			07/24/17	NP	7.83	21.63	NA	NA	661.10	661.10
			11/06/17	NP	8.12	21.83	NA	NA	660.81	660.81
			02/06/18	NP	7.86	21.80	NA	NA	661.07	661.07
			05/07/18	NP	5.79	21.73	NA	NA	663.14	663.14
			08/16/18	NP	7.59	NM	NA	NA	661.34	661.34
			11/19/18	NP	6.78	NM	NA	NA	662.15	662.15
			02/22/19	NP	6.73	21.66	NA	NA	662.20	662.20
			06/14/19	NP	5.75	21.66	NA	NA	663.18	663.18
MW-58	668.73	15-20	05/09/16	NP	3.51	19.74	NA	NA	665.22	665.22
			04/19/17	NP	4.28	19.72	NA	NA	664.45	664.45
			07/24/17	NP	5.68	18.70	NA	NA	663.05	663.05
			11/06/17	NP	5.78	19.69	NA	NA	662.95	662.95
			02/05/18	NP	5.63	19.40	NA	NA	663.10	663.10
			05/07/18	NP	4.01	19.68	NA	NA	664.72	664.72
			08/16/18	NP	5.43	NM	NA	NA	663.30	663.30
			11/19/18	NP	5.03	NM	NA	NA	663.70	663.70
			03/01/19	NP	4.65	19.66	NA	NA	664.08	664.08
			06/14/19	NP	4.12	19.66	NA	NA	664.61	664.61
MW-62	671.06	16.3-21.3	04/20/17	NP	7.89	21.13	NA	NA	663.17	663.17
			07/24/17	NP	10.11	21.01	NA	NA	660.95	660.95
			11/06/17	NP	9.43	21.14	NA	NA	661.63	661.63
			02/05/18	NP	9.46	21.15	NA	NA	661.60	661.60
			05/07/18	NP	7.72	21.15	NA	NA	663.34	663.34
			08/16/18	NP	8.75	NM	NA	NA	662.31	662.31
			11/19/18	NP	8.46	NM	NA	NA	662.60	662.60
			02/22/19	NP	8.52	21.13	NA	NA	662.54	662.54
			06/14/19	NP	7.87	21.15	NA	NA	663.19	663.19

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-63	669.96	7-12	04/20/17	NP	7.32	11.75	NA	NA	662.64	662.64
			07/24/17	NP	8.45	11.78	NA	NA	661.51	661.51
			11/06/17	NP	8.18	11.80	NA	NA	661.78	661.78
			02/05/18	NP	8.77	11.80	NA	NA	661.19	661.19
			05/07/18	NP	7.24	11.80	NA	NA	662.72	662.72
			08/16/18	NP	7.82	NM	NA	NA	662.14	662.14
			11/19/18	NP	7.89	NM	NA	NA	662.07	662.07
			02/22/19	NP	8.36	11.79	NA	NA	661.60	661.60
			06/19/19	NP	7.55	11.78	NA	NA	662.41	662.41
MW-64	671.09	15-20	04/20/17	NP	8.55	21.10	NA	NA	662.54	662.54
			07/24/17	NP	9.83	20.05	NA	NA	661.26	661.26
			11/06/17	NP	10.20	20.36	NA	NA	660.89	660.89
			02/06/18	NP	10.14	20.19	NA	NA	660.95	660.95
			05/07/18	NP	8.44	20.05	NA	NA	662.65	662.65
			08/16/18	NP	9.42	NM	NA	NA	661.67	661.67
			11/19/18	NP	9.12	NM	NA	NA	661.97	661.97
			02/28/19	NP	9.05	20.20	NA	NA	662.04	662.04
			06/14/19	NP	8.30	20.00	NA	NA	662.79	662.79
MW-65	671.98	16-21	04/20/17	NP	8.26	21.18	NA	NA	663.72	663.72
			07/24/17	NP	9.87	21.11	NA	NA	662.11	662.11
			11/06/17	NP	9.68	21.11	NA	NA	662.30	662.30
			02/05/18	NP	10.05	21.16	NA	NA	661.93	661.93
			05/07/18	NP	8.37	21.04	NA	NA	663.61	663.61
			08/16/18	NP	9.13	NM	NA	NA	662.85	662.85
			11/19/18	NP	9.06	NM	NA	NA	662.92	662.92
			02/28/19	NP	9.49	19.59	NA	NA	662.49	662.49
			06/14/19	NP	8.35	21.10	NA	NA	663.63	663.63
MW-66	669.83	15-20	04/20/17	NP	6.55	19.49	NA	NA	663.28	663.28
			07/24/17	NP	7.81	19.35	NA	NA	662.02	662.02
			11/06/17	NP	7.51	19.23	NA	NA	662.32	662.32
			02/05/18	NP	8.03	19.06	NA	NA	661.80	661.80
			05/07/18	NP	6.79	19.02	NA	NA	663.04	663.04
			08/16/18	NP	7.33	NM	NA	NA	662.50	662.50
			11/19/18	NP	7.25	NM	NA	NA	662.58	662.58
			03/04/19	NP	7.65	19.11	NA	NA	662.18	662.18
			06/14/19	NP	6.45	19.00	NA	NA	663.38	663.38
MW-67	671.32	9-14	04/20/17	NP	9.44	13.97	NA	NA	661.88	661.88
			07/24/17	NP	9.84	13.84	NA	NA	661.48	661.48
			11/06/17	NP	9.76	14.01	NA	NA	661.56	661.56
			02/05/18	NP	10.00	14.02	NA	NA	661.32	661.32
			05/07/18	NP	9.14	14.01	NA	NA	662.18	662.18
			08/16/18	NP	9.48	NM	NA	NA	661.84	661.84
			11/19/18	NP	9.30	NM	NA	NA	662.02	662.02
			02/28/19	NP	9.89	14.12	NA	NA	661.43	661.43
			06/14/19	NP	9.02	14.03	NA	NA	662.30	662.30
MW-68	670.71	15-20	04/20/17	NP	9.39	21.85	NA	NA	661.32	661.32
			07/24/17	NP	9.55	19.86	NA	NA	661.16	661.16
			11/06/17	NP	9.51	19.85	NA	NA	661.20	661.20
			02/05/18	NP	9.68	19.85	NA	NA	661.03	661.03
			05/15/18	NP	8.68	19.82	NA	NA	662.03	662.03
			08/16/18	NP	9.04	NM	NA	NA	661.67	661.67
			11/19/18	NP	9.17	19.79	NA	NA	661.54	661.54
			03/08/19	NP	9.69	15.29	NA	NA	661.02	661.02
			06/14/19	NP	8.75	19.85	NA	NA	661.96	661.96
MW-69	670.27	15-20	04/20/17	NP	9.71	19.91	NA	NA	660.56	660.56
			07/24/17	NP	NM	NM	NA	NA	NM	NM
			11/06/17	NP	9.91	19.98	NA	NA	660.36	660.36
			02/05/18	NP	9.78	20.01	NA	NA	660.49	660.49
			05/07/18	NP	14.78	19.91	NA	NA	655.49	655.49
			08/16/18	NP	8.90	NM	NA	NA	661.37	661.37
			11/19/18	NP	8.79	NM	NA	NA	661.48	661.48
			02/22/19	NP	9.30	19.98	NA	NA	660.97	660.97
			06/14/19	NM	NM	NM	NA	NA	NA	NA

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-70	671.36	15-20	04/20/17	NP	11.46	20.14	NA	NA	659.90	659.90
			07/24/17	NP	11.02	20.18	NA	NA	660.34	660.34
			11/06/17	NP	10.23	20.15	NA	NA	661.13	661.13
			02/05/18	NP	10.74	20.12	NA	NA	660.62	660.62
			05/07/18	NP	9.72	20.13	NA	NA	661.64	661.64
			08/16/18	NP	9.67	NM	NA	NA	661.69	661.69
			11/19/18	NP	10.40	20.09	NA	NA	660.96	660.96
			02/22/19	NP	11.13	15.30	NA	NA	660.23	660.23
			06/14/19	NP	9.82	20.09	NA	NA	661.54	661.54
MW-71	671.04	15-20	04/20/17	NP	12.45	20.16	NA	NA	658.59	658.59
			07/24/17	NP	11.84	20.22	NA	NA	659.20	659.20
			11/06/17	NP	10.74	20.21	NA	NA	660.30	660.30
			02/05/18	NP	11.13	20.18	NA	NA	659.91	659.91
			05/07/18	NP	10.23	20.35	NA	NA	660.81	660.81
			08/16/18	NP	9.79	NM	NA	NA	661.25	661.25
			11/19/18	NP	11.03	20.14	NA	NA	660.01	660.01
			02/22/19	NP	11.66	20.24	NA	NA	659.38	659.38
			06/14/19	NP	10.91	20.15	NA	NA	660.13	660.13
PW-16-01	670.23	9.7-19.7	07/24/17	NP	9.04	21.58	NA	NA	661.19	661.19
			11/06/17	NP	8.45	21.58	NA	NA	661.78	661.78
			02/05/18	NP	8.70	21.62	NA	NA	661.53	661.53
			05/07/18	NP	7.24	21.44	NA	NA	662.99	662.99
			08/16/18	NP	7.56	NM	NA	NA	662.67	662.67
			11/19/18	NP	8.00	NM	NA	NA	662.23	662.23
			02/22/19	NP	8.71	21.60	NA	NA	661.52	661.52
			06/14/19	NP	7.40	21.45	NA	NA	662.83	662.83
PW-16-02	669.97	6-21	07/24/17	NP	6.77	8.36	NA	NA	663.20	663.20
			11/06/17	NP	6.54	23.79	NA	NA	663.43	663.43
			02/05/18	NP	6.65	24.55	NA	NA	663.32	663.32
			05/07/18	NP	4.85	23.65	NA	NA	665.12	665.12
			08/16/18	NP	6.40	NM	NA	NA	663.57	663.57
			11/19/18	NP	5.72	NM	NA	NA	664.25	664.25
			02/25/19	NP	5.29	23.69	NA	NA	664.68	664.68
			06/14/19	NP	4.78	23.78	NA	NA	665.19	665.19
TW-16-01	669.53	12-17	07/24/17	NP	8.36	16.80	NA	NA	661.17	661.17
			11/06/17	NP	7.68	16.64	NA	NA	661.85	661.85
			02/05/18	NP	7.91	16.87	NA	NA	661.62	661.62
			05/07/18	NP	6.87	16.64	NA	NA	662.66	662.66
			08/16/18	NP	6.78	NM	NA	NA	662.75	662.75
			11/19/18	NP	7.14	NM	NA	NA	662.39	662.39
			02/22/19	NP	7.91	16.62	NA	NA	661.62	661.62
			06/14/19	NP	6.59	16.62	NA	NA	662.94	662.94
TW-16-02	669.43	12-17	04/20/17	NP	4.48	18.85	NA	NA	664.95	664.95
			07/24/17	NP	8.00	17.14	NA	NA	661.43	661.43
			11/06/17	NP	7.48	17.17	NA	NA	661.95	661.95
			02/05/18	NP	7.71	17.15	NA	NA	661.72	661.72
			05/07/18	NP	6.85	16.91	NA	NA	662.58	662.58
			08/16/18	NP	6.62	NM	NA	NA	662.81	662.81
			11/19/18	NP	6.94	NM	NA	NA	662.49	662.49
			02/22/19	NP	7.67	17.13	NA	NA	661.76	661.76
			06/14/19	NP	6.36	16.89	NA	NA	663.07	663.07
TW-16-03	669.34	9-19	07/24/17	NP	6.10	18.65	NA	NA	663.24	663.24
			11/06/17	NP	6.00	18.65	NA	NA	663.34	663.34
			02/05/18	NP	6.05	18.75	NA	NA	663.29	663.29
			05/07/18	NP	4.29	18.72	NA	NA	665.05	665.05
			08/16/18	NP	5.79	NM	NA	NA	663.55	663.55
			11/19/18	NP	5.13	NM	NA	NA	664.21	664.21
			02/25/19	NP	4.74	18.89	NA	NA	664.60	664.60
			06/14/19	NP	4.22	18.74	NA	NA	665.12	665.12

See Notes on Last Page.

Table 1
On-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation[(1)] (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Elevation (ft. amsl)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
TW-16-04	669.80	9-19	04/20/17	NP	4.90	19.02	NA	NA	664.90	664.90
			07/24/17	NP	6.46	18.93	NA	NA	663.34	663.34
			11/06/17	NP	6.36	18.93	NA	NA	663.44	663.44
			02/05/18	NP	6.43	18.73	NA	NA	663.37	663.37
			05/07/18	NP	4.65	18.90	NA	NA	665.15	665.15
			08/16/18	NP	6.17	NM	NA	NA	663.63	663.63
			11/19/18	NP	5.59	NM	NA	NA	664.21	664.21
			02/25/19	NP	5.10	18.92	NA	NA	664.70	664.70
			06/14/19	NP	4.61	18.71	NA	NA	665.19	665.19
PZ-01	670.88	15-20	02/22/19	NP	8.64	19.42	NA	NA	662.24	662.24
			06/14/19	NP	7.84	19.42	NA	NA	663.04	663.04
PZ-02	670.67	15-20	02/22/19	NP	8.90	19.70	NA	NA	661.77	661.77
			06/14/19	NP	8.06	19.70	NA	NA	662.61	662.61
PZ-03	670.62	15-20	02/22/19	NP	9.23	19.68	NA	NA	661.39	661.39
			06/14/19	NP	8.31	19.68	NA	NA	662.31	662.31
PZ-04	671.03	16-21	02/22/19	NP	10.18	19.75	NA	NA	660.85	660.85
			06/14/19	NP	9.26	20.73	NA	NA	661.77	661.77
PZ-05	670.92	15-20	02/22/19	NP	10.60	19.63	NA	NA	660.32	660.32
			06/14/19	NP	9.52	19.64	NA	NA	661.40	661.40
PZ-06	671.82	16-21	02/22/19	NP	10.85	20.97	NA	NA	660.97	660.97
			06/14/19	NP	9.37	20.98	NA	NA	662.45	662.45
PZ-07	670.87	15-20	02/22/19	NP	9.49	19.78	NA	NA	661.38	661.38
			06/14/19	NP	8.41	19.79	NA	NA	662.46	662.46
PZ-08	668.62	15-20	02/22/19	NP	5.85	19.50	NA	NA	662.77	662.77
			06/14/19	NP	5.31	19.85	NA	NA	663.31	663.31
PZ-09	671.91	15-20	03/08/19	NP	10.36	19.75	NA	NA	661.55	661.55
			06/14/19	NP	9.47	19.74	NA	NA	662.44	662.44
PZ-10	671.42	15-20	02/22/19	NP	10.39	19.76	NA	NA	661.03	661.03
			06/14/19	NP	9.59	19.77	NA	NA	661.83	661.83
PZ-11	671.06	15-20	02/22/19	NP	10.72	19.83	NA	NA	660.34	660.34
			06/14/19	NP	9.52	19.83	NA	NA	661.54	661.54
PZ-12	671.29	15-20	02/22/19	NP	11.74	19.65	NA	NA	659.55	659.55
			06/14/19	NP	10.63	19.62	NA	NA	660.66	660.66
PZ-13	671.21	15-20	02/22/19	NP	10.46	18.77	NA	NA	660.75	660.75
			06/14/19	NP	9.60	19.73	NA	NA	661.61	661.61
PZ-14	670.26	13-18	06/14/19	NP	6.45	17.84	NA	NA	663.81	663.81
PZ-15	669.28	13-18	06/14/19	NP	5.56	17.32	NA	NA	663.72	663.72

Notes:

Water level measurements collected from top of well casing.

[(1)] TOC elevation re-surveyed on October 12-13, and/or November 20, 2017 by Geodetic Designs Inc.

[(2)] MW-1 submerged under water during the first quarter of 2018 sampling event.

* Monitoring well TOC could not be re-surveyed due to access.

** Unable to calculate a corrected groundwater elevation due to LNAPL thickness throughout well screen.

Abbreviations:

ft. feet

ft. amsl feet above mean sea level

ft. bgs feet below ground surface

ft. btoc feet below top of casing

LNAPL light non-aqueous phase liquid

NA not applicable

NM not measured

NP no product detected

TOC top of casing

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-1								MW-2									MW-3				
Screen Interval (ft. bgs):			14-19								15.5-20.5									14-19				
Date:	Unit		4/26/2017	7/28/2017	11/10/2017	5/11/2018	8/14/2018	10/29/2018	03/01/2019	6/11/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/10/2018	10/26/2018	03/01/2019	6/11/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018
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	1.5 J	1.8 J	4.5	4.4	5.7	5.1	4.9	3.9	5.8	0.67 J	0.79 J	0.57 J	< 2.0	0.50 J
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 130	< 250	< 330	< 330	< 130	< 710	< 250	< 500	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	1.0 J	< 10	< 10	< 10	< 10	3.8 J	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	1.2 J	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	4.0 J	< 10	2.8 J	< 10	< 10	28	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 130	< 250	< 330	< 330	< 130	< 710	< 250	< 500	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 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	**630**	**1,200**	**1,000**	**1,400**	**1,700 J**	**2,300**	**1,900**	**2,600**	**3,400**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 130	< 250	< 330	< 330	< 130	< 710	< 250	< 500	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 50	< 100	< 130	< 130	< 50	< 290	< 100	< 200	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 250	< 500	< 670	< 670	< 250	< 1,400	< 500	< 1,000	NA	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-1								MW-2									MW-3				
Screen Interval (ft. bgs):			14-19								15.5-20.5									14-19				
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/26/2017	7/28/2017	11/10/2017	5/11/2018	8/14/2018	10/29/2018	03/01/2019	6/11/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/10/2018	10/26/2018	03/01/2019	6/11/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 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	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 50	< 100	< 130	< 130	< 50	< 290	< 100	< 200	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**200**	**270**	**260**	**390**	**510**	**510**	**530**	**760**	**790**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 25	< 50	< 67	< 67	< 25	< 140	< 50	< 100	NA	< 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	< 25	< 50	< 67	< 67	< 25	< 140	**8.2 J**	< 100	< 100	< 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	**200**	**160**	**140**	**210**	**190**	**170**	**190**	**230**	**190**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-3				MW-4									MW-5							
Screen Interval (ft. bgs):			14-19				15.5-20.5									15.5-20.5							
Date:	Unit		8/7/2018	10/26/2018	03/01/2019	6/11/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019	6/11/2019	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019	6/11/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	1.4 J	1.3 J	1.0 J	1.8 J	1.1 J	0.78 J	< 20	0.38 J	0.76 J	< 200	< 200	< 200	1.9 J	0.35 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	NA	< 5,000	< 5,000	< 5,000	< 8,300	< 5,000 J	< 5,000	< 2,500	< 10,000	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	1.3	0.21 J	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.73 J	< 1.0	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	< 10	< 10	< 10	1.9 J	< 10	< 10	< 10	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	NA	< 5,000	< 5,000	< 5,000	< 8,300	< 5,000 J	< 5,000	< 2,500	< 10,000	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	0.23 J	**32,000**	**27,000**	**21,000**	**26,000**	**21,000 J**	**22,000**	**24,000**	**21,000**	**6,400**	< 1.0	< 1.0	< 1.0	0.58 J	< 1.0	0.39 J	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	NA	< 5,000	< 5,000	< 5,000	< 8,300	< 5,000 J	< 5,000	< 2,500	< 10,000	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	NA	< 2,000	< 2,000	< 2,000	< 3,300	< 2,000 J	< 2,000	< 1,000	< 4,000	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10,000 J	< 10,000	< 5,000	< 20,000	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-3				MW-4									MW-5							
Screen Interval (ft. bgs):			14-19				15.5-20.5									15.5-20.5							
Date:	Unit		8/7/2018	10/26/2018	03/01/2019	6/11/2019	4/27/2017	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019	6/11/2019	8/3/2017	11/9/2017	2/13/2018	5/10/2018	8/7/2018	10/26/2018	03/01/2019	6/11/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	NA	< 2,000	< 2,000	< 2,000	< 3,300	< 2,000 J	< 2,000	< 1,000	< 4,000	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	**1,200**	**1,100**	**850 J**	**1,100 J**	**860 J**	**1,000**	**1,100**	**1,000 J**	**310 J**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1,000 J	< 1,000	< 500	< 2,000	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	**21,000**	**18,000**	**19,000**	**23,000**	**23,000 J**	**31,000**	**35,000**	**41,000**	**13,000**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.18 J	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	**570 J**	**640 J**	**470 J**	< 1,700	**610 J**	< 1,000	**610**	**1,100 J**	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-7								MW-9								MW-10					
Screen Interval (ft. bgs):			18-23								19.5-24.5								16.5-21.5					
Date:	Unit		7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/27/2019	6/10/2019	7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	03/01/2019	6/10/2019	4/27/2017	8/4/2017	11/9/2017	2/13/2018	5/10/2018	8/9/2018
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	8.6	11	12	3.6	4.3	3.9	3.8	5.2	5.9	4.5	5.6	4.4	4.4	4.8
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
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	< 50	< 67	< 100	< 200	< 100	< 140
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 250	< 330	< 500	< 1,000	< 500	< 710
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 250	< 330	< 500	< 1,000	< 500	< 710
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
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	0.29 J	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 100	< 140
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 250	< 330	< 500	< 1,000	< 500	< 710
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 100	< 130	< 200	< 400	< 200	< 290
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 500	< 670	< 1,000	< 2,000	< 1,000	< 1,400
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	MW-7 18-23								MW-9 19.5-24.5								MW-10 16.5-21.5					
			7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/27/2019	6/10/2019	7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	03/01/2019	6/10/2019	4/27/2017	8/4/2017	11/9/2017	2/13/2018	5/10/2018	8/9/2018
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
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	< 50	< 67	< 100	< 200	< 100	< 140
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 100	< 130	< 200	< 400	< 200	< 290
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	< 50	< 67	< 100	< 200	< 100	< 140
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 50	< 67	< 100	< 200	< 100	< 140
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	< 50	< 67	< 100	< 200	< 100	< 140
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5.5**	**7.1**	**4.6**	**2.2**	1.7	1.5	0.94 J	1.2	**1,200**	**2,100**	**2,000**	**1,900**	**3,100**	**2,300**
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-10			MW-14								MW-15-59D								
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	16.5-21.5			15-20								94-99								
Date:	Unit		11/7/2018	03/01/2019	6/11/2019	7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/26/2019	6/12/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/9/2018	10/31/2018	03/05/2019	6/13/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	350	5.5	4.5	6.1	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	µg/l	200	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	µg/l	5.0	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	µg/l	2,500	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethene	µg/l	7.0	< 250	< 100	< 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
1,2,3-Trimethylbenzene	µg/l	NS	< 1,300	< 500	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
1,2,4-Trichlorobenzene	µg/l	70	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2,4-Trimethylbenzene	µg/l	63	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromoethane	µg/l	0.05	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichlorobenzene	µg/l	600	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloroethane	µg/l	5.0	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloropropane	µg/l	5.0	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3,5-Trimethylbenzene	µg/l	72	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3-Dichlorobenzene	µg/l	19	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	NA
1,4-Dichlorobenzene	µg/l	75	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
2-Butanone (MEK)	µg/l	38,000	< 2,500	< 1,000	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 2,500	< 1,000	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Acetone	µg/l	2,100	< 2,500	< 1,000	NA	< 10	< 10	< 10	3.0 J	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	3.3 J	< 10	< 10	< 10	NA
Benzene	µg/l	5.0	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromodichloromethane	µg/l	80	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	µg/l	80	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromomethane	µg/l	29	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Carbon Disulfide	µg/l	2,300	< 1,300	< 500	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	1.6 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Carbon Tetrachloride	µg/l	5.0	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-11	µg/l	7,300	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-12	µg/l	4,800	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorobenzene	µg/l	100	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorodibromomethane	µg/l	80	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroethane	µg/l	1,700	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroform	µg/l	80	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloromethane	µg/l	1,100	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
cis-1,2-Dichloroethene	µg/l	70	< 250	< 100	< 100	< 1.0	< 1.0	< 1.0	< 1.0	0.31 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
cis-1,3-Dichloropropene	µg/l	NS	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Cyclohexane	µg/l	NS	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	0.86 J	0.58 J	0.62 J	0.76 J	0.69 J	0.43 J	0.34 J	0.62 J	NA
Dichloromethane	µg/l	5.0	< 1,300	< 500	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Diethyl ether	µg/l	10	< 500	< 200	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Ethylbenzene	µg/l	74	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Isopropylbenzene	µg/l	2,300	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Methyl Acetate	µg/l	NS	< 2,500	< 1,000	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 2,500	< 1,000	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methylcyclohexane	µg/l	NS	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	0.62 J	< 1.0	< 1.0	< 1.0	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-10			MW-14								MW-15-59D								
Screen Interval (ft. bgs):			16.5-21.5			15-20								94-99								
Date:	Unit		11/7/2018	03/01/2019	6/11/2019	7/28/2017	11/10/2017	2/12/2018	5/11/2018	8/14/2018	10/29/2018	02/26/2019	6/12/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/9/2018	10/31/2018	03/05/2019	6/13/2019
Methyl-tert-butylether	µg/l	40	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Styrene (Monomer)	µg/l	100	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Tetrachloroethene	µg/l	5.0	< 250	< 100	< 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
Toluene	µg/l	790	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	0.35 J	0.46 J	0.30 J	0.31 J	< 1.0	0.17 J	< 1.0	< 1.0	NA
Total Xylenes	µg/l	280	< 500	< 200	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	0.25 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.28 J	NA
trans-1,2-Dichloroethene	µg/l	100	< 250	< 100	< 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
trans-1,3-Dichloropropene	µg/l	NS	< 250	< 100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Trichloroethene	µg/l	5.0	< 250	**14 J**	< 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	0.13 J	< 1.0
Vinyl chloride	µg/l	2.0	**3,100**	**3,300**	**3,600**	< 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
Gases																						
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																						
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																						
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-15-60D									MW-15-61D									MW-18			
Screen Interval (ft. bgs):			93-98									88-93									13-18			
Date:	Unit		4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/11/2018	8/7/2018	10/29/2018	03/05/2019	6/13/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/7/2018	11/1/2018	03/02/2019	6/15/2019	4/21/2017	7/28/2017	11/10/2017	2/14/2018
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 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)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	12	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	0.57 J	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	0.51 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	0.91 J	0.58 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	0.48 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	0.50 J	< 1.0	< 1.0	< 1.0	0.12 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	0.47 J	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-15-60D									MW-15-61D									MW-18			
Screen Interval (ft. bgs):			93-98									88-93									13-18			
Date:	Unit		4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/11/2018	8/7/2018	10/29/2018	03/05/2019	6/13/2019	4/26/2017	8/1/2017	11/15/2017	2/6/2018	5/15/2018	8/7/2018	11/1/2018	03/02/2019	6/15/2019	4/21/2017	7/28/2017	11/10/2017	2/14/2018
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
Toluene	µg/l	790	< 1.0	0.33 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.31 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
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-18					MW-19							MW-20							
Screen Interval (ft. bgs):			13-18					15-20							13.5-18.5							
Date:	Unit		5/8/2018	8/7/2018	10/29/2018	02/26/2019	6/10/2019	11/14/2017	2/14/2018	5/14/2018	8/10/2018	10/26/2018	02/28/2019	6/12/2019	7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/9/2018	10/29/2018	02/26/2019	6/12/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	120	130	140	130	150	170	190	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	NA	6.3	4.8	3.6	4.7	6.6	5.8	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	NA*	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	0.26 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	0.49 J	0.52 J	0.36 J	0.48 J	0.47 J	0.47 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	0.24 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	1.3 J	< 10	< 10	NA	< 10	< 10	< 10	1.4 J	< 10	< 10	< 10	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	0.87 J	< 10	< 10	NA	< 10	< 10	0.81 J	2.0 J	0.63 J	< 10	0.52 J	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	NA	< 10	< 10	3.2 J	5.6 J	< 10	< 10	NA	< 10	< 10	2.2 J	3.8 J	6.9 J	< 10	< 10	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	NA	8.9	6.5	1.7	< 1.0	4.1	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	0.94 J	0.71 J	1.0	1.6	1.3	0.65 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	1.1 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-18					MW-19							MW-20							
Screen Interval (ft. bgs):			13-18					15-20							13.5-18.5							
Date:	Unit		5/8/2018	8/7/2018	10/29/2018	02/26/2019	6/10/2019	11/14/2017	2/14/2018	5/14/2018	8/10/2018	10/26/2018	02/28/2019	6/12/2019	7/31/2017	11/10/2017	2/12/2018	5/11/2018	8/9/2018	10/29/2018	02/26/2019	6/12/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.0	0.91 J	1.0	0.97 J	0.66 J	0.60 J	< 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	1.8	1.5	1.3	< 1.0	1.6	1.9	0.73 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases																						
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																						
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																						
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-21						MW-22									MW-23						
Screen Interval (ft. bgs):			13.5-18.5						16.5-21.5									15-20						
Date:	Unit		2/13/2018	5/15/2018	8/14/2018	10/26/2018	02/26/2019	6/13/2019	4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/10/2018	8/6/2018	10/30/2018	02/25/2019	6/10/2019	8/3/2017	11/7/2017	2/6/2018	5/7/2018	8/6/2018	10/30/2018	2/25/2019	6/10/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	25	5.3	6.5	14	18	6.3	32	26	49	22	34	19	37	23	40	0.50 J	< 20	< 20	< 2.0	< 200	< 200	NS	< 2.0 J
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,1-Dichloroethane	µg/l	2,500	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,1-Dichloroethene	µg/l	7.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	< 710	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 200	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1,000
1,2,3-Trimethylbenzene	µg/l	NS	< 5,000	< 5,000	< 5,000	< 8,300	< 13,000	NA	< 310	< 500	< 250	< 710	< 330	< 250	< 500	< 250	NA	< 5,000	< 10,000	< 5,000	< 500	< 13,000	< 13,000	NS	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,2-Dibromoethane	µg/l	0.05	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,2-Dichlorobenzene	µg/l	600	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,2-Dichloroethane	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,2-Dichloropropane	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,3-Dichlorobenzene	µg/l	19	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
1,4-Dichlorobenzene	µg/l	75	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
2-Butanone (MEK)	µg/l	38,000	< 10,000	< 10,000	1,500 J	< 17,000	< 25,000	NA	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10,000	< 10,000	830 J	< 17,000	< 25,000	NA	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA
Acetone	µg/l	2,100	< 10,000	2,100 J	< 10,000	< 17,000	< 25,000	NA	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA
Benzene	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Bromodichloromethane	µg/l	80	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Bromoform	µg/l	80	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Bromomethane	µg/l	29	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Carbon Disulfide	µg/l	2,300	< 5,000	< 5,000	< 5,000	< 8,300	< 13,000	NA	< 310	< 500	< 250	< 710	< 330	< 250	< 500	< 250	NA	< 5,000	< 10,000	< 5,000	< 500	< 13,000	< 13,000	NS	NA
Carbon Tetrachloride	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
CFC-11	µg/l	7,300	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
CFC-12	µg/l	4,800	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Chlorobenzene	µg/l	100	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Chlorodibromomethane	µg/l	80	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Chloroethane	µg/l	1,700	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Chloroform	µg/l	80	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Chloromethane	µg/l	1,100	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
cis-1,2-Dichloroethene	µg/l	70	**20,000**	**18,000**	**26,000**	**40,000**	**25,000**	**13,000 J**	**130**	**210**	25 J	**200**	**180**	**310**	**180 J**	**190**	**120 J**	**21,000**	**78,000**	**33,000**	**2,400**	**43,000**	**66,000**	NS	**23,000**
cis-1,3-Dichloropropene	µg/l	NS	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Cyclohexane	µg/l	NS	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Dichloromethane	µg/l	5.0	< 5,000	**560 J**	< 5,000	< 8,300	< 13,000	NA	**140 J**	< 500	< 250	**120 J**	< 330	< 250	< 500	< 250	NA	< 5,000	< 10,000	**750 J**	< 500	< 13,000	< 13,000	NS	NA
Diethyl ether	µg/l	10	< 2,000	< 2,000	< 2,000	< 3,300	< 5,000	NA	< 130	< 200	< 100	< 290	< 130	< 100	< 200	< 100	NA	< 2,000	< 4,000	< 2,000	< 200	< 5,000	< 5,000	NS	NA
Ethylbenzene	µg/l	74	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Isopropylbenzene	µg/l	2,300	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Methyl Acetate	µg/l	NS	< 10,000	< 10,000	< 10,000	< 17,000	< 25,000	NA	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10,000	< 10,000	910 J	< 17,000	< 25,000	NA	< 630	< 1,000	< 500	< 1,400	< 670	< 500	< 1,000	< 500	NA	< 10,000	< 20,000	< 10,000	< 1,000	< 25,000	< 25,000	NS	NA
Methylcyclohexane	µg/l	NS	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	MW-21 13.5-18.5						MW-22 16.5-21.5									MW-23 15-20							
			2/13/2018	5/15/2018	8/14/2018	10/26/2018	02/26/2019	6/13/2019	4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/10/2018	8/6/2018	10/30/2018	02/25/2019	6/10/2019	8/3/2017	11/7/2017	2/6/2018	5/7/2018	8/6/2018	10/30/2018	2/25/2019	6/10/2019
Methyl-tert-butylether	µg/l	40	< 1,000	< 1,000 J	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Styrene (Monomer)	µg/l	100	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Tetrachloroethene	µg/l	5.0	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	< 710	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 200	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	< 1,000
Toluene	µg/l	790	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Total Xylenes	µg/l	280	< 2,000	< 2,000	< 2,000	< 3,300	< 5,000	NA	< 130	< 200	< 100	< 290	< 130	< 100	< 200	< 100	NA	< 2,000	< 4,000	< 2,000	< 200	< 5,000	< 5,000	NS	NA
trans-1,2-Dichloroethene	µg/l	100	< 1,000	< 1,000	**190 J**	< 1,700	< 2,500	< 710	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 200	**1,200**	**4,100**	**1,800**	**180**	**2,300 J**	**3,000**	NS	**1,000**
trans-1,3-Dichloropropene	µg/l	NS	< 1,000	< 1,000	< 1,000	< 1,700	< 2,500	NA	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	NA	< 1,000	< 2,000	< 1,000	< 100	< 2,500	< 2,500	NS	NA
Trichloroethene	µg/l	5.0	**460 J**	< 1,000	< 1,000	**1,900**	**570 J**	< 710	< 63	< 100	< 50	< 140	< 67	< 50	< 100	< 50	< 200	**5,300**	**25,000**	**11,000**	**1,000**	**12,000**	**18,000**	NS	**7,000**
Vinyl chloride	µg/l	2.0	**5,400**	**3,700**	**3,400**	**7,800**	**5,600**	**2,400**	**2,300**	**2,100**	**1,600**	**1,500**	**2,400**	**1,300**	**2,600 J**	**1,700**	**2,600**	**1,100**	**2,400**	**820 J**	**77 J**	< 2,500	**1,600 J**	NS	**670 J**
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-24									MW-25									MW-26			
Screen Interval (ft. bgs):			19-24									16-21									4.5-14.5			
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/26/2017	8/2/2017	11/10/2017	2/14/2018	5/14/2018	8/14/2018	10/29/2018	03/01/2019	6/11/2019	4/21/2017	8/2/2017	11/14/2017	2/13/2018	5/9/2018	8/13/2018	10/29/2018	02/27/2019	6/10/2019	8/4/2017	11/14/2017	5/15/2018	8/9/2018
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	< 2.0	0.26 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.75 J	1.1 J	0.86 J	0.68 J	0.99 J	1.9 J	3.2	4.5	4.3	0.25 J	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.29 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	1.7 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	0.77 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	0.16 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
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	0.88 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	MW-24 19-24									MW-25 16-21									MW-26 4.5-14.5			
			4/26/2017	8/2/2017	11/10/2017	2/14/2018	5/14/2018	8/14/2018	10/29/2018	03/01/2019	6/11/2019	4/21/2017	8/2/2017	11/14/2017	2/13/2018	5/9/2018	8/13/2018	10/29/2018	02/27/2019	6/10/2019	8/4/2017	11/14/2017	5/15/2018	8/9/2018
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0 J	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
Vinyl chloride	µg/l	2.0	< 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
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-26			MW-28								MW-29								
Screen Interval (ft. bgs):			4.5-14.5			2-12								5-15								
Date:	Unit		10/26/2018	02/28/2019	6/13/2019	8/3/2017	11/8/2017	2/7/2018	5/15/2018	8/13/2018	10/31/2018	02/26/2019	6/11/2019	4/26/2017	8/4/2017	11/14/2017	2/14/2018	5/14/2018	8/9/2018	10/26/2018	02/28/2019	6/12/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	0.44 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.4 J	3.8	9.0	0.90 J	0.47 J	< 2.0	4.3	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	NA	28	26	25	24	37	35	15	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	0.23 J	NA	14	12	10	13	15	15	7.9	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	0.71 J	1.6	0.90 J	0.57 J	0.33 J	0.43 J	0.40 J	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	NA*	< 5.0	< 5.0	< 5.0	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Acetone	µg/l	2,100	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 10	< 10	< 10	< 10	4.4 J	< 10	< 10	< 10	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroform	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
cis-1,2-Dichloroethene	µg/l	70	< 1.0	< 1.0	< 1.0	1.1	0.91 J	0.50 J	0.43 J	0.86 J	0.51 J	0.24 J	0.22 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Dichloromethane	µg/l	5.0	3.1 J	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.4 J	< 5.0	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Methyl Acetate	µg/l	NS	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-26			MW-28								MW-29								
Screen Interval (ft. bgs):			4.5-14.5			2-12								5-15								
Date:	Unit		10/26/2018	02/28/2019	6/13/2019	8/3/2017	11/8/2017	2/7/2018	5/15/2018	8/13/2018	10/31/2018	02/26/2019	6/11/2019	4/26/2017	8/4/2017	11/14/2017	2/14/2018	5/14/2018	8/9/2018	10/26/2018	02/28/2019	6/12/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.22 J	< 2.0	< 1.0	0.16 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	0.68 J	0.59 J	0.45 J	0.51 J	0.66 J	0.70 J	0.30 J	0.43 J	< 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	< 2.0	0.33 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	< 1.0
Gases																						
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																						
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																						
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-30									MW-31									MW-32			
Screen Interval (ft. bgs):			19-24									17-22									18-23			
Date:	Unit		4/25/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	4/21/2017	7/28/2017	11/10/2017	2/14/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	7/28/2017	11/7/2017	2/12/2018	5/8/2018
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	10	11	13	12	14	15	15	15	13	< 2.0	0.47 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.28 J	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.18 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	0.31 J	0.37 J	0.50 J
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	MW-30 19-24									MW-31 17-22									MW-32 18-23			
			4/25/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	4/21/2017	7/28/2017	11/10/2017	2/14/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	7/28/2017	11/7/2017	2/12/2018	5/8/2018
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
Vinyl chloride	µg/l	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.68 J	0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.67 J	< 1.0	< 1.0
Gases																								
Ethane	µg/l	NS	< 0.50	NA	0.31 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	< 0.50	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	65	NA	360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	2.6	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	< 1.0	NA	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	52	NA	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	2.1	NA	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	< 100	NA	**3,700**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	**630**	NA	**3,700**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**77**	NA	**150**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	**70**	NA	**150**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-32				MW-33								MW-34								
Screen Interval (ft. bgs):			18-23				14-19								16.5-21.5								
Date:	Unit		8/7/2018	11/7/2018	02/28/2019	6/11/2019	7/28/2017	11/8/2017	2/14/2018	5/8/2018	8/9/2018	11/2/2018	02/27/2019	6/11/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019
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	8.3	6.1	6.6	7.4	4.9	7.6	6.7	6.9	5.6
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	NA	< 10	< 10	< 10	2.7 J	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
cis-1,2-Dichloroethene	µg/l	70	0.32 J	0.38 J	0.48 J	0.43 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	0.35 J	< 1.0	< 1.0	0.33 J	0.44 J	0.32 J	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Cyclohexane	µg/l	NS	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methylcyclohexane	µg/l	NS	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-32				MW-33								MW-34								
Screen Interval (ft. bgs):			18-23				14-19								16.5-21.5								
Date:	Unit		8/7/2018	11/7/2018	02/28/2019	6/11/2019	7/28/2017	11/8/2017	2/14/2018	5/8/2018	8/9/2018	11/2/2018	02/27/2019	6/11/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
Vinyl chloride	µg/l	2.0	< 1.0	0.38 J	0.39 J	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	1.5	2.0	0.97 J	0.87 J	1.1	1.2	0.85 J	0.89 J
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-35								MW-36								MW-37				
Screen Interval (ft. bgs):			19.5-24.5								20-25								18-23				
Date:	Unit		7/27/2017	11/7/2017	2/14/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	7/28/2017	11/10/2017	2/15/2018	5/14/2018	8/14/2018	10/29/2018	03/01/2019	6/11/2019	8/1/2017	11/10/2017	2/12/2018	5/10/2018	8/9/2018
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	4.9	4.6	4.3	4.7	4.3	4.5	5.8	5.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.37 J	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	1.7 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	0.89 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.32 J	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	1.1 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	MW-35 19.5-24.5								MW-36 20-25								MW-37 18-23				
			7/27/2017	11/7/2017	2/14/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	7/28/2017	11/10/2017	2/15/2018	5/14/2018	8/14/2018	10/29/2018	03/01/2019	6/11/2019	8/1/2017	11/10/2017	2/12/2018	5/10/2018	8/9/2018
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.14 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	0.11 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	**3.5**	**2.4**	**4.5**	**7.2**	**3.0**	1.8	**4.1**	**6.7**	< 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
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-37			MW-38									MW-39								
Screen Interval (ft. bgs):			18-23			15-20									20-25								
Date:	Unit		10/31/2018	02/27/2019	6/12/2019	4/26/2017	7/28/2017	11/8/2017	2/15/2018	5/8/2018	8/9/2018	11/1/2018	02/27/2019	6/11/2019	4/26/2017	7/28/2017	11/7/2017	2/15/2018	5/8/2018	8/7/2018	11/1/2018	02/28/2019	6/11/2019
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
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3-Dichlorobenzene	µg/l	19	0.17 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Acetone	µg/l	2,100	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroform	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Methyl Acetate	µg/l	NS	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-37			MW-38									MW-39								
Screen Interval (ft. bgs):			18-23			15-20									20-25								
Date:	Unit		10/31/2018	02/27/2019	6/12/2019	4/26/2017	7/28/2017	11/8/2017	2/15/2018	5/8/2018	8/9/2018	11/1/2018	02/27/2019	6/11/2019	4/26/2017	7/28/2017	11/7/2017	2/15/2018	5/8/2018	8/7/2018	11/1/2018	02/28/2019	6/11/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
Toluene	µg/l	790	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
Vinyl chloride	µg/l	2.0	< 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
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-40							MW-41									MW-42					
Screen Interval (ft. bgs):			20-25							16-21									16-21					
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	7/28/2017	11/15/2017	5/8/2018	8/10/2018	11/1/2018	2/25/2019	6/15/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	< 2.0	1.9 J	1.4 J	2.2	0.77 J	0.75 J	1.6 J	1.9 J	1.4 J	1.3 J	1.3 J	1.8 J	2.4	1.8 J	2.2	2.3
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	0.20 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	NS	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	NS	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	< 10	< 10	NS	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	2.7	3.2	2.3 J	2.4	2.6	NS	2.2	1.9	1.8	2.3	2.1	2.6	2.5	2.9	3.1	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	NS	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	NS	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	MW-40 20-25							MW-41 16-21									MW-42 16-21					
			7/28/2017	11/15/2017	5/8/2018	8/10/2018	11/1/2018	2/25/2019	6/15/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/8/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	4/24/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NS	< 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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	0.41 J	0.48 J	0.34 J	0.37 J	0.39 J	NS	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.34 J	0.35 J	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NS	< 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	0.77 J	1.8	1.3 J	0.54 J	1.4	NS	0.26 J	**3.2**	1.9	**2.4**	**2.1**	**5.3**	**3.0**	2.0	**3.2**	1.9	0.81 J	0.99 J	1.0	0.81 J	0.99 J	0.60 J
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-42			MW-43									MW-44								
Screen Interval (ft. bgs):			16-21			17-22									16-21								
Date:	Unit		11/1/2018	03/02/2019	6/15/2019	4/27/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/14/2018	8/13/2018	10/30/2018	02/25/2019	6/11/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	2.6	3.1	2.5	3.6	3.5	3.5	2.2	2.8	3.3	4.0	3.3	2.7	12	7.1	12	9.0	11	9.5	2.7	5.7	14
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
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	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 31	< 50	< 100	< 33	< 67	< 100	< 100	< 100	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA
Acetone	µg/l	2,100	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Bromoform	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 31	< 50	< 100	< 33	< 67	< 100	< 100	< 100	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Chloroform	µg/l	80	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
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	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	**8.3 J**	< 50	**18 J**	4.1 J	**9.7 J**	< 100	< 100	< 100	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 13	< 20	< 40	< 13	< 27	< 40	< 40	< 40	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Methyl Acetate	µg/l	NS	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 63	< 100	< 200	< 67	< 130	< 200	< 200	< 200	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-42			MW-43									MW-44								
Screen Interval (ft. bgs):			16-21			17-22									16-21								
Date:	Unit		11/1/2018	03/02/2019	6/15/2019	4/27/2017	7/27/2017	11/9/2017	2/13/2018	5/9/2018	8/10/2018	11/1/2018	03/02/2019	6/15/2019	4/25/2017	8/2/2017	11/7/2017	2/6/2018	5/14/2018	8/13/2018	10/30/2018	02/25/2019	6/11/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
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	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20
Toluene	µg/l	790	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 13	< 20	< 40	< 13	< 27	< 40	< 40	< 40	NA
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	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	NA
Trichloroethene	µg/l	5.0	< 1.0	0.13 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 6.3	< 10	< 20	< 6.7	< 13	< 20	< 20	< 20	< 20
Vinyl chloride	µg/l	2.0	0.60 J	0.70 J	0.67 J	**8.4**	**3.0**	**2.2**	**8.0**	**6.4 J**	1.0	0.71 J	**3.4**	1.5	**230**	**380**	**520**	**210**	**270**	**240**	**240**	**180**	**180**
Gases																							
Ethane	µg/l	NS	NA	NA	NA	0.48 J	NA	0.74 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	< 0.50	NA	0.27 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	190	NA	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	4.4	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	< 0.50	NA	< 0.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	220	NA	**260**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	4.0	NA	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	**1,700**	NA	**2,800**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	**2,500**	NA	**3,900**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	**210**	NA	**190**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	**210**	NA	**200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-45									MW-46									MW-47			
Screen Interval (ft. bgs):			15-20									16-21									16-21			
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	4/24/2017	7/31/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	4/24/2017	7/31/2017	11/10/2017	5/10/2018
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	4.1	2.5	< 2.0	< 2.0	0.40 J	1.0 J	1.1 J	< 2.0	0.94 J	21	0.83 J	3.7	11	13	8.5	7.0	3.0	11	0.72 J	0.62 J	0.52 J	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	2.2 J	< 10	1.9 J
1,1,2,2-Tetrachloroethane	µg/l	35	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,1,2-Trichloroethane	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,1-Dichloroethane	µg/l	2,500	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	1.9 J	2.8	3.6	2.4	1.0 J	1.3	0.80 J	0.32 J	NA	3.7 J	3.5 J	4.6 J	2.9 J
1,1-Dichloroethene	µg/l	7.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 25	< 5.0	0.78 J	0.90 J	0.46 J	< 1.7	< 1.0	< 1.0	< 1.0	< 3.3	< 5.0	< 4.0	< 10	< 5.0 J
1,2,3-Trimethylbenzene	µg/l	NS	< 2,500	< 2,500	< 330	< 500	< 330	< 170	< 50	< 83	NA	< 25	< 5.0	< 13	< 5.0	< 8.4	< 5.0	< 5.0	< 5.0	NA	< 25	< 20	< 50	< 25 J
1,2,4-Trichlorobenzene	µg/l	70	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,2,4-Trimethylbenzene	µg/l	63	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,2-Dibromoethane	µg/l	0.05	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,2-Dichlorobenzene	µg/l	600	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,2-Dichloroethane	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	0.55 J	< 1.7	0.57 J	0.21 J	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,2-Dichloropropane	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,3,5-Trimethylbenzene	µg/l	72	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,3-Dichlorobenzene	µg/l	19	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	0.21 J	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
1,4-Dichlorobenzene	µg/l	75	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
2-Butanone (MEK)	µg/l	38,000	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	< 50	< 40	< 100	< 50 J
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	< 50	< 40	< 100	< 50 J
Acetone	µg/l	2,100	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	< 50	< 40	< 100	< 50 J
Benzene	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Bromodichloromethane	µg/l	80	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Bromoform	µg/l	80	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Bromomethane	µg/l	29	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Carbon Disulfide	µg/l	2,300	< 2,500	< 2,500	< 330	< 500	< 330	< 170	< 50	< 83	NA	< 25	< 5.0	< 13	< 5.0	< 8.4	< 5.0	< 5.0	< 5.0	NA	< 25	< 20	< 50	< 25 J
Carbon Tetrachloride	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
CFC-11	µg/l	7,300	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
CFC-12	µg/l	4,800	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Chlorobenzene	µg/l	100	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Chlorodibromomethane	µg/l	80	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Chloroethane	µg/l	1,700	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Chloroform	µg/l	80	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Chloromethane	µg/l	1,100	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
cis-1,2-Dichloroethene	µg/l	70	**10,000**	**8,100**	**2,100**	**1,800**	**1,200**	**1,000**	**640**	**340**	**310**	21	15	22	14	6.0	11	4.6	1.4	4.0	69	69	**79**	49 J
cis-1,3-Dichloropropene	µg/l	NS	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Cyclohexane	µg/l	NS	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Dichloromethane	µg/l	5.0	**330 J**	< 2,500	< 330	< 500	< 330	< 170	< 50	< 83	NA	4.1 J	< 5.0	< 13	< 5.0	< 8.4	< 5.0	< 5.0	< 5.0	NA	3.4 J	< 20	< 50	< 25 J
Diethyl ether	µg/l	10	< 1,000	< 1,000	< 130	< 200	< 130	< 67	5.0 J	< 33	NA	< 10	< 2.0	< 5.0	< 2.0	< 3.3	< 2.0	< 2.0	< 2.0	NA	< 10	< 8.0	< 20	< 10 J
Ethylbenzene	µg/l	74	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Isopropylbenzene	µg/l	2,300	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Methyl Acetate	µg/l	NS	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	< 50	< 40	< 100	< 50 J
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 5,000	< 5,000	< 670	< 1,000	< 670	< 330	< 100	< 170	NA	< 50	< 10	< 25	< 10	< 17	< 10	< 10	< 10	NA	< 50	< 40	< 100	< 50 J
Methylcyclohexane	µg/l	NS	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	MW-45 15-20									MW-46 16-21									MW-47 16-21			
			4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	4/24/2017	7/31/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	4/24/2017	7/31/2017	11/10/2017	5/10/2018
Methyl-tert-butylether	µg/l	40	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Styrene (Monomer)	µg/l	100	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	7.9	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Tetrachloroethene	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	< 25	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	< 3.3	< 5.0	< 4.0	< 10	< 5.0 J
Toluene	µg/l	790	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Total Xylenes	µg/l	280	< 1,000	< 1,000	< 130	< 200	< 130	< 67	< 20	< 33	NA	< 10	< 2.0	< 5.0	< 2.0	< 3.3	< 2.0	< 2.0	< 2.0	NA	< 10	< 8.0	< 20	< 10 J
trans-1,2-Dichloroethene	µg/l	100	< 500	< 500	< 67	< 100	< 67	< 33	6.5 J	< 17	< 25	1.6 J	2.6	2.7	1.7	0.86 J	1.2	0.56 J	0.20 J	< 3.3	7.1	8.6	9.3 J	6.5 J
trans-1,3-Dichloropropene	µg/l	NS	< 500	< 500	< 67	< 100	< 67	< 33	< 10	< 17	NA	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 4.0	< 10	< 5.0 J
Trichloroethene	µg/l	5.0	< 500	< 500	< 67	< 100	< 67	< 33	2.7 J	< 17	< 25	< 5.0	< 1.0	< 2.5	< 1.0	< 1.7	< 1.0	< 1.0	< 1.0	< 3.3	< 5.0	< 4.0	< 10	< 5.0 J
Vinyl chloride	µg/l	2.0	**7,600**	**5,400**	**1,500**	**1,200**	**1,400**	**800**	**420**	**380**	**540**	**150**	**13**	**57**	**38**	**30**	**66**	**32**	**17**	**87**	**120**	**110**	**220**	**88 J**
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-47				MW-48									MW-49							
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	16-21				17-22									12.5-17.5							
Date:	Unit		8/9/2018	10/25/2018	02/28/2019	6/12/2019	4/21/2017	8/1/2017	11/14/2017	2/12/2018	5/15/2018	8/6/2018	10/25/2018	03/04/2019	6/13/2019	4/21/2017	7/28/2017	2/13/2018	5/11/2018	8/14/2018	10/30/2018	02/27/2019	6/11/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	9.5	2.1	7.7	12	6.2	6.5	1.6 J	< 2.0	12	9.4	7.0	5.5	5.0	5.4	8.1	6.1
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	2.0	3.1 J	2.2 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,1-Dichloroethane	µg/l	2,500	4.0	5.1	4.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,1-Dichloroethene	µg/l	7.0	0.43 J	< 5.0	< 2.5	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	< 710
1,2,3-Trimethylbenzene	µg/l	NS	< 8.4	< 25	< 13	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 10,000	< 5,000	< 8,300	< 8,300	< 2,500	< 5,000	< 13,000	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,2-Dibromoethane	µg/l	0.05	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,2-Dichlorobenzene	µg/l	600	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,2-Dichloroethane	µg/l	5.0	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,2-Dichloropropane	µg/l	5.0	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,3-Dichlorobenzene	µg/l	19	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
1,4-Dichlorobenzene	µg/l	75	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
2-Butanone (MEK)	µg/l	38,000	< 17	< 50	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	1.5 J	NA	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 17	< 50	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000	NA
Acetone	µg/l	2,100	< 17	< 50	< 25	NA	< 10	< 10	5.1 J	< 10	3.8 J	< 10	< 10	8.4 J	NA	< 20,000	< 10,000	< 17,000	**3,900 J**	< 5,000	< 10,000	< 25,000	NA
Benzene	µg/l	5.0	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Bromodichloromethane	µg/l	80	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Bromoform	µg/l	80	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Bromomethane	µg/l	29	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Carbon Disulfide	µg/l	2,300	< 8.4	< 25	< 13	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 10,000	< 5,000	< 8,300	< 8,300	< 2,500	< 5,000	< 13,000	NA
Carbon Tetrachloride	µg/l	5.0	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
CFC-11	µg/l	7,300	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
CFC-12	µg/l	4,800	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Chlorobenzene	µg/l	100	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Chlorodibromomethane	µg/l	80	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Chloroethane	µg/l	1,700	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Chloroform	µg/l	80	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Chloromethane	µg/l	1,100	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
cis-1,2-Dichloroethene	µg/l	70	55	48	32	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**43,000**	**29,000**	**20,000**	**17,000**	**15,000**	**22,000**	**37,000**	**19,000**
cis-1,3-Dichloropropene	µg/l	NS	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Cyclohexane	µg/l	NS	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Dichloromethane	µg/l	5.0	< 8.4	< 25	< 13	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	**1,100 J**	< 5,000	< 8,300	**940 J**	< 2,500	< 5,000	< 13,000	NA
Diethyl ether	µg/l	10	< 3.3	< 10	< 5.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 4,000	< 2,000	< 3,300	< 3,300	< 1,000	< 2,000	< 5,000	NA
Ethylbenzene	µg/l	74	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Isopropylbenzene	µg/l	2,300	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Methyl Acetate	µg/l	NS	< 17	< 50	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 17	< 50	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 20,000	< 10,000	< 17,000	< 17,000	< 5,000	< 10,000	< 25,000	NA
Methylcyclohexane	µg/l	NS	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-47				MW-48									MW-49							
Screen Interval (ft. bgs):			16-21				17-22									12.5-17.5							
Date:	Unit		8/9/2018	10/25/2018	02/28/2019	6/12/2019	4/21/2017	8/1/2017	11/14/2017	2/12/2018	5/15/2018	8/6/2018	10/25/2018	03/04/2019	6/13/2019	4/21/2017	7/28/2017	2/13/2018	5/11/2018	8/14/2018	10/30/2018	02/27/2019	6/11/2019
Methyl-tert-butylether	µg/l	40	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Styrene (Monomer)	µg/l	100	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Tetrachloroethene	µg/l	5.0	< 1.7	< 5.0	< 2.5	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	< 710
Toluene	µg/l	790	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Total Xylenes	µg/l	280	< 3.3	< 10	< 5.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 4,000	< 2,000	< 3,300	< 3,300	< 1,000	< 2,000	< 5,000	NA
trans-1,2-Dichloroethene	µg/l	100	7.2	7.1	5.4	5.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	**110 J**	< 1,000	< 2,500	< 710
trans-1,3-Dichloropropene	µg/l	NS	< 1.7	< 5.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	NA
Trichloroethene	µg/l	5.0	< 1.7	< 5.0	< 2.5	< 4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700	< 1,700	< 500	< 1,000	< 2,500	< 710
Vinyl chloride	µg/l	2.0	**59**	**100**	**44**	**120**	0.85 J	**11**	**5.2**	**3.8**	**7.4**	**5.3**	**6.6**	0.24 J	< 1.0	**10,000**	**9,800**	**8,400**	**8,100**	**4,900**	**8,400**	**9,100**	**7,100**
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	6,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-50									MW-51									MW-52			
Screen Interval (ft. bgs):			16-21									15-20									15-20			
Date:	Unit		4/21/2017	7/31/2017	11/13/2017	2/12/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	6/12/2019	4/25/2017	8/3/2017	11/9/2017	2/8/2018	5/14/2018	8/6/2018	10/30/2018	03/01/2019	6/12/2019	7/27/2017	11/10/2017	2/13/2018	5/9/2018
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	1.5 J	2.2	0.68 J	0.78 J	2.8	1.7 J	2.8	3.6	3.3	0.75 J	1.2 J	1.1 J	1.1 J	0.49 J	1.6 J	2.5	1.5 J	2.2	1.3 J	0.68 J	1.2 J	0.30 J
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	0.48 J	< 5.0	< 6.7	NA	0.41 J	0.72 J	0.70 J	0.84 J	0.45 J	0.77 J	1.0	0.57 J	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	7.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	0.26 J	< 5.0	< 6.7	< 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
1,2,3-Trimethylbenzene	µg/l	NS	< 25	< 20	< 25	< 25	< 25	< 5.0	< 25	< 33	NA	< 5.0	< 5.0	< 5.0	< 5.0	NA*	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	0.24 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	< 10	< 10	< 10	< 10	3.9 J	< 10	< 10	< 10	NA	2.2 J	< 10	< 10	2.7 J
Benzene	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 25	< 20	< 25	< 25	< 25	< 5.0	< 25	< 33	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	13	15	23	22	12	17	16	20	9.4	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	0.37 J	0.33 J	0.22 J	0.16 J	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 25	< 20	< 25	3.5 J	< 25	< 5.0	< 25	< 33	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 10	< 8.0	< 10	< 10	< 10	< 2.0	< 10	< 13	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 50	< 40	< 50	< 50	< 50	< 10	< 50	< 67	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	MW-50 16-21									MW-51 15-20									MW-52 15-20			
			4/21/2017	7/31/2017	11/13/2017	2/12/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	6/12/2019	4/25/2017	8/3/2017	11/9/2017	2/8/2018	5/14/2018	8/6/2018	10/30/2018	03/01/2019	6/12/2019	7/27/2017	11/10/2017	2/13/2018	5/9/2018
Methyl-tert-butylether	µg/l	40	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 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
Toluene	µg/l	790	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 10	< 8.0	< 10	< 10	< 10	< 2.0	< 10	< 13	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/l	100	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	0.31 J	< 5.0	< 6.7	0.31 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
trans-1,3-Dichloropropene	µg/l	NS	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	5.0	< 5.0	< 4.0	< 5.0	< 5.0	< 5.0	< 1.0	< 5.0	< 6.7	< 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	**48**	**140**	**150**	**76**	**150**	**97**	**99**	**170**	**200**	0.57 J	0.97 J	0.47 J	< 1.0	0.70 J	0.40 J	0.39 J	0.29 J	0.36 J	**7.0**	**9.1**	**4.0**	**4.3**
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-52				MW-53									MW-54								MW-54S	
Screen Interval (ft. bgs):			15-20				16-21									16-21								4.5-9.5	
Date:	Unit		8/10/2018	10/31/2018	03/02/2019	6/15/2019	4/24/2017	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	02/28/2019	6/10/2019	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	2/25/2019	6/10/2019	4/29/2019	6/10/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	350	1.8 J	2.7	1.9 J	1.2 J	1.1 J	2.0	0.61 J	1.1 J	1.4 J	1.6 J	1.8 J	1.7 J	2.5	1.5 J	2.0	2.7	1.7 J	1.4 J	2.6	NS	3.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	NA	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	0.18 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 J	NS	NA	NA	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	0.18 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Acetone	µg/l	2,100	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	NA	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	0.26 J	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 J	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NS	NA	NA	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	NA	NA	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10 J	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	NS	NA	NA	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-52				MW-53									MW-54								MW-54S	
Screen Interval (ft. bgs):			15-20				16-21									16-21								4.5-9.5	
Date:	Unit		8/10/2018	10/31/2018	03/02/2019	6/15/2019	4/24/2017	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	02/28/2019	6/10/2019	7/27/2017	11/8/2017	2/7/2018	5/9/2018	8/13/2018	10/31/2018	2/25/2019	6/10/2019	4/29/2019	6/10/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 J	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS	NA	NA	NA
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 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	NA	NA	NA
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 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	**4.5**	**5.0**	**3.9**	**3.4**	< 1.0	0.63 J	< 1.0	< 1.0	< 1.0	0.45 J	0.60 J	< 1.0	< 1.0	0.88 J	1.5	1.2	0.98 J	0.34 J	0.85 J	NS	0.87 J	< 1.0	< 1.0
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-55								MW-55D	MW-56									MW-57			
Screen Interval (ft. bgs):			15-20								19-24	16-21									17-22			
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	7/27/2017	11/8/2017	2/7/2018	5/10/2018	8/13/2018	10/31/2018	02/27/2019	6/11/2019	6/11/2019	4/24/2017	7/28/2017	11/8/2017	2/14/2018	5/9/2018	8/13/2018	10/31/2018	02/27/2019	6/11/2019	7/27/2017	11/7/2017	2/9/2018	5/9/2018
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	1.2 J	1.4 J	0.96 J	1.2 J	1.1 J	1.6 J	< 2.0	1.2 J	2.8	3.8	2.7	2.2	1.6 J	2.7	2.3	2.7	2.9	3.7	4.6	4.9	4.9	3.9
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	19	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Acetone	µg/l	2,100	< 10	< 10	< 10	2.7 J	< 10	< 10	< 10	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	1.8 J	< 10	< 10	< 10
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	0.19 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	0.43 J	0.26 J	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-55								MW-55D	MW-56									MW-57			
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	15-20								19-24	16-21									17-22			
Date:	Unit		7/27/2017	11/8/2017	2/7/2018	5/10/2018	8/13/2018	10/31/2018	02/27/2019	6/11/2019	6/11/2019	4/24/2017	7/28/2017	11/8/2017	2/14/2018	5/9/2018	8/13/2018	10/31/2018	02/27/2019	6/11/2019	7/27/2017	11/7/2017	2/9/2018	5/9/2018
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.11 J	0.12 J	NA	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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
Vinyl chloride	µg/l	2.0	0.84 J	0.65 J	< 1.0	0.48 J	0.39 J	0.57 J	0.54 J	0.48 J	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.31 J	0.38 J	< 1.0	< 1.0	< 1.0	0.59 J	0.56 J
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-57				MW-58								MW-62								
Screen Interval (ft. bgs):			17-22				15-20								16.3-21.3								
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	8/6/2018	10/25/2018	02/28/2019	6/11/2019	7/28/2017	11/8/2017	2/7/2018	5/14/2018	8/13/2018	10/31/2018	03/01/2019	6/11/2019	4/21/2017	7/31/2017	11/13/2017	2/6/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	6/12/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	4.5	4.6	3.1	3.6	10	8.0	9.6	3.6	2.2	3.9	6.2	11	2.8	3.7	3.7	2.1	1.5 J	3.1	2.3	2.4	2.0
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	µg/l	2,500	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
1,2,3-Trimethylbenzene	µg/l	NS	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	NA*	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
1,2,4-Trichlorobenzene	µg/l	70	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2,4-Trimethylbenzene	µg/l	63	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromoethane	µg/l	0.05	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichlorobenzene	µg/l	600	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloroethane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloropropane	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3,5-Trimethylbenzene	µg/l	72	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3-Dichlorobenzene	µg/l	19	< 1.0	0.16 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	NA
1,4-Dichlorobenzene	µg/l	75	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
2-Butanone (MEK)	µg/l	38,000	< 10	< 10	2.7 J	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Acetone	µg/l	2,100	< 10	< 10	12	NA	< 10	< 10	< 10	4.4 J	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Benzene	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromodichloromethane	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromomethane	µg/l	29	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Carbon Disulfide	µg/l	2,300	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Carbon Tetrachloride	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-11	µg/l	7,300	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-12	µg/l	4,800	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorobenzene	µg/l	100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorodibromomethane	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroethane	µg/l	1,700	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroform	µg/l	80	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloromethane	µg/l	1,100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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	1.6	< 1.0	0.30 J	0.30 J	0.83 J	< 1.0	0.23 J	0.33 J	0.31 J
cis-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Cyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Dichloromethane	µg/l	5.0	< 5.0	2.6 J	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Diethyl ether	µg/l	10	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Ethylbenzene	µg/l	74	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Isopropylbenzene	µg/l	2,300	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Methyl Acetate	µg/l	NS	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methylcyclohexane	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-57				MW-58								MW-62								
Screen Interval (ft. bgs):			17-22				15-20								16.3-21.3								
Date:	Unit		8/6/2018	10/25/2018	02/28/2019	6/11/2019	7/28/2017	11/8/2017	2/7/2018	5/14/2018	8/13/2018	10/31/2018	03/01/2019	6/11/2019	4/21/2017	7/31/2017	11/13/2017	2/6/2018	5/9/2018	8/6/2018	10/24/2018	02/27/2019	6/12/2019
Methyl-tert-butylether	µg/l	40	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Styrene (Monomer)	µg/l	100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
Toluene	µg/l	790	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Total Xylenes	µg/l	280	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
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
trans-1,3-Dichloropropene	µg/l	NS	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
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
Vinyl chloride	µg/l	2.0	0.39 J	0.64 J	0.88 J	0.77 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	1.0	1.3	1.2	0.66 J	1.0	0.73 J	0.62 J
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-63										MW-64									MW-65		
Screen Interval (ft. bgs):			7-12										15-20									16-21		
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/21/2017	5/25/2017	7/31/2017	11/13/2017	2/7/2018	5/9/2018	8/6/2018	10/24/2018	02/28/2019	6/12/2019	4/24/2017	7/27/2017	11/7/2017	2/9/2018	5/10/2018	8/13/2018	11/5/2018	02/28/2019	6/11/2019	4/25/2017	8/2/2017	11/8/2017
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	350	19	NA	0.36 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.32 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	3.8	3.1	3.8
Volatile Organic Compounds (VOCs)																								
1,1,1-Trichloroethane	µg/l	200	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,1,2,2-Tetrachloroethane	µg/l	35	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,1,2-Trichloroethane	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,1-Dichloroethane	µg/l	2,500	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,1-Dichloroethene	µg/l	7.0	< 1,000	< 1,000	< 100	< 10	< 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	< 2.0	< 4.0	< 2.0
1,2,3-Trimethylbenzene	µg/l	NS	< 5,000	< 5,000	< 500	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 10	< 20	< 10
1,2,4-Trichlorobenzene	µg/l	70	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,2,4-Trimethylbenzene	µg/l	63	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,2-Dibromoethane	µg/l	0.05	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,2-Dichlorobenzene	µg/l	600	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,2-Dichloroethane	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,2-Dichloropropane	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,3,5-Trimethylbenzene	µg/l	72	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,3-Dichlorobenzene	µg/l	19	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
1,4-Dichlorobenzene	µg/l	75	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
2-Butanone (MEK)	µg/l	38,000	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 20	< 40	< 20
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 20	< 40	< 20
Acetone	µg/l	2,100	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 20	< 40	< 20
Benzene	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Bromodichloromethane	µg/l	80	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Bromoform	µg/l	80	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Bromomethane	µg/l	29	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Carbon Disulfide	µg/l	2,300	< 5,000	< 5,000	< 500	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 10	< 20	< 10
Carbon Tetrachloride	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
CFC-11	µg/l	7,300	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
CFC-12	µg/l	4,800	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Chlorobenzene	µg/l	100	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Chlorodibromomethane	µg/l	80	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Chloroethane	µg/l	1,700	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Chloroform	µg/l	80	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Chloromethane	µg/l	1,100	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
cis-1,2-Dichloroethene	µg/l	70	< 1,000	< 1,000	< 100	< 10	1.7	2.5	3.3	2.2	1.8	2.9	< 1.0	0.37 J	0.31 J	0.30 J	< 1.0	0.29 J	0.32 J	0.23 J	0.25 J	3.3	4.1	3.9
cis-1,3-Dichloropropene	µg/l	NS	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Cyclohexane	µg/l	NS	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Dichloromethane	µg/l	5.0	< 5,000	< 5,000	< 500	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 10	< 20	< 10
Diethyl ether	µg/l	10	< 2,000	< 2,000	< 200	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 4.0	< 8.0	< 4.0
Ethylbenzene	µg/l	74	< 1,000	< 1,000	< 100	5.6 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Isopropylbenzene	µg/l	2,300	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Methyl Acetate	µg/l	NS	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 20	< 40	< 20
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 10,000	< 10,000	< 1,000	< 100	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 20	< 40	< 20
Methylcyclohexane	µg/l	NS	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-63										MW-64									MW-65		
Screen Interval (ft. bgs):			7-12										15-20									16-21		
Date:	Unit		4/21/2017	5/25/2017	7/31/2017	11/13/2017	2/7/2018	5/9/2018	8/6/2018	10/24/2018	02/28/2019	6/12/2019	4/24/2017	7/27/2017	11/7/2017	2/9/2018	5/10/2018	8/13/2018	11/5/2018	02/28/2019	6/11/2019	4/25/2017	8/2/2017	11/8/2017
Methyl-tert-butylether	µg/l	40	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Styrene (Monomer)	µg/l	100	**13,000**	**13,000**	**3,900**	**320**	0.23 J	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Tetrachloroethene	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 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	< 2.0	< 4.0	< 2.0
Toluene	µg/l	790	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Total Xylenes	µg/l	280	< 2,000	< 2,000	< 200	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 4.0	< 8.0	< 4.0
trans-1,2-Dichloroethene	µg/l	100	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	0.30 J	0.29 J	< 1.0	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0
trans-1,3-Dichloropropene	µg/l	NS	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 4.0	< 2.0
Trichloroethene	µg/l	5.0	< 1,000	< 1,000	< 100	< 10	< 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	< 2.0	< 4.0	< 2.0
Vinyl chloride	µg/l	2.0	< 1,000	< 1,000	< 100	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.4**	**4.8**	**7.0**	**6.7**	1.3	**5.9**	**3.0**	**3.4**	1.7	**61**	**49**	**48**
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-65						MW-66									MW-67					
Screen Interval (ft. bgs):			16-21						15-20									9-14					
Date:	Unit		2/6/2018	5/10/2018	8/8/2018	10/30/2018	02/28/2019	6/12/2019	4/25/2017	8/2/2017	11/13/2017	2/12/2018	5/10/2018	8/8/2018	11/2/2018	03/04/2019	6/10/2019	4/21/2017	7/31/2017	11/14/2017	2/12/2018	5/14/2018	8/13/2018
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	350	3.4	2.1	1.8 J	2.9	2.6	3.8	0.76 J	0.99 J	0.49 J	1.3 J	< 2.0	< 2.0	1.1 J	1.2 J	< 2.0	1.8 J	0.33 J	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																							
1,1,1-Trichloroethane	µg/l	200	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	2.3 J	2.0 J	2.1 J	< 3.3	0.94 J	0.80 J
1,1,2,2-Tetrachloroethane	µg/l	35	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,1,2-Trichloroethane	µg/l	5.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,1-Dichloroethane	µg/l	2,500	< 2.0	< 2.0	0.35 J	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	1.0 J	< 5.0	< 3.3	0.25 J	< 2.5
1,1-Dichloroethene	µg/l	7.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,2,3-Trimethylbenzene	µg/l	NS	< 10	< 10	< 5.0	< 10	< 13	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 50	< 20	< 25	< 17	NA*	< 13
1,2,4-Trichlorobenzene	µg/l	70	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,2,4-Trimethylbenzene	µg/l	63	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,2-Dibromoethane	µg/l	0.05	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,2-Dichlorobenzene	µg/l	600	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,2-Dichloroethane	µg/l	5.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,2-Dichloropropane	µg/l	5.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,3,5-Trimethylbenzene	µg/l	72	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,3-Dichlorobenzene	µg/l	19	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
1,4-Dichlorobenzene	µg/l	75	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
2-Butanone (MEK)	µg/l	38,000	< 20	< 20	< 10	< 20	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 100	< 40	< 50	< 33	< 10	< 25
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 20	< 20	< 10	< 20	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 100	< 40	< 50	< 33	< 10	< 25
Acetone	µg/l	2,100	< 20	< 20	< 10	< 20	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 100	< 40	< 50	< 33	3.5 J	< 25
Benzene	µg/l	5.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Bromodichloromethane	µg/l	80	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Bromoform	µg/l	80	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Bromomethane	µg/l	29	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Carbon Disulfide	µg/l	2,300	< 10	< 10	< 5.0	< 10	< 13	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.39 J	< 5.0	NA	< 50	< 20	< 25	< 17	< 5.0	< 13
Carbon Tetrachloride	µg/l	5.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
CFC-11	µg/l	7,300	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
CFC-12	µg/l	4,800	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Chlorobenzene	µg/l	100	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Chlorodibromomethane	µg/l	80	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Chloroethane	µg/l	1,700	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Chloroform	µg/l	80	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Chloromethane	µg/l	1,100	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
cis-1,2-Dichloroethene	µg/l	70	4.1	6.0	6.2	7.0	5.9	4.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	47	36	15	9.6	5.7	4.5
cis-1,3-Dichloropropene	µg/l	NS	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Cyclohexane	µg/l	NS	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Dichloromethane	µg/l	5.0	1.5 J	< 10	< 5.0	< 10	< 13	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 50	< 20	< 25	1.8 J	< 5.0	< 13
Diethyl ether	µg/l	10	< 4.0	< 4.0	< 2.0	< 4.0	< 5.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 20	< 8.0	< 10	< 6.7	< 2.0	< 5.0
Ethylbenzene	µg/l	74	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Isopropylbenzene	µg/l	2,300	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Methyl Acetate	µg/l	NS	< 20	< 20	< 10	< 20	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 100	< 40	< 50	< 33	< 10	< 25
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 20	< 20	< 10	< 20	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 100	< 40	< 50	< 33	< 10	< 25
Methylcyclohexane	µg/l	NS	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-65						MW-66									MW-67					
Screen Interval (ft. bgs):			16-21						15-20									9-14					
Date:	Unit		2/6/2018	5/10/2018	8/8/2018	10/30/2018	02/28/2019	6/12/2019	4/25/2017	8/2/2017	11/13/2017	2/12/2018	5/10/2018	8/8/2018	11/2/2018	03/04/2019	6/10/2019	4/21/2017	7/31/2017	11/14/2017	2/12/2018	5/14/2018	8/13/2018
Methyl-tert-butylether	µg/l	40	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Styrene (Monomer)	µg/l	100	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Tetrachloroethene	µg/l	5.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Toluene	µg/l	790	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Total Xylenes	µg/l	280	< 4.0	< 4.0	< 2.0	< 4.0	< 5.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 20	< 8.0	< 10	< 6.7	< 2.0	< 5.0
trans-1,2-Dichloroethene	µg/l	100	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	2.4 J	1.7 J	1.1 J	0.75 J	0.78 J
trans-1,3-Dichloropropene	µg/l	NS	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 2.5
Trichloroethene	µg/l	5.0	< 2.0	< 2.0	< 1.0	< 2.0	< 2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**94**	**91**	**110**	**83**	**57**	**60**
Vinyl chloride	µg/l	2.0	**36**	**41**	**35**	**48**	**34**	**41**	**5.6**	**5.4**	**3.0**	**2.7**	**2.4**	**3.2**	1.2	**3.2**	1.5	**14**	< 4.0	< 5.0	< 3.3	1.3	< 2.5
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-67			MW-68									MW-69							
Screen Interval (ft. bgs):			9-14			15-20									15-20							
Date:	Unit		10/25/2018	02/28/2019	6/13/2019	4/24/2017	8/1/2017	11/10/2017	2/12/2018	5/15/2018	8/9/2018	10/25/2018	02/27/2019	6/12/2019	4/25/2017	11/10/2017	2/14/2018	5/10/2018	8/13/2018	11/6/2018	02/28/2019	6/12/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	0.40 J	0.69 J	0.73 J	0.54 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	12	35	23	7.3	7.1	12	5.0	6.7
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	µg/l	200	1.3 J	0.78 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1,2-Trichloroethane	µg/l	5.0	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethane	µg/l	2,500	< 3.3	0.49 J	NA	1.6	1.7	3.7	2.0	1.4	1.9	2.1	1.4	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,1-Dichloroethene	µg/l	7.0	< 3.3	< 2.5	< 3.3	< 1.0	< 1.0	0.39 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
1,2,3-Trimethylbenzene	µg/l	NS	< 17	< 13	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
1,2,4-Trichlorobenzene	µg/l	70	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2,4-Trimethylbenzene	µg/l	63	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dibromoethane	µg/l	0.05	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichlorobenzene	µg/l	600	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloroethane	µg/l	5.0	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,2-Dichloropropane	µg/l	5.0	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3,5-Trimethylbenzene	µg/l	72	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,3-Dichlorobenzene	µg/l	19	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
1,4-Dichlorobenzene	µg/l	75	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
2-Butanone (MEK)	µg/l	38,000	< 33	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 33	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Acetone	µg/l	2,100	< 33	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	4.4 J	< 10	< 10	< 10	< 10	< 10	< 10	NA
Benzene	µg/l	5.0	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromodichloromethane	µg/l	80	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromoform	µg/l	80	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Bromomethane	µg/l	29	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Carbon Disulfide	µg/l	2,300	< 17	< 13	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Carbon Tetrachloride	µg/l	5.0	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-11	µg/l	7,300	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
CFC-12	µg/l	4,800	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorobenzene	µg/l	100	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chlorodibromomethane	µg/l	80	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroethane	µg/l	1,700	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloroform	µg/l	80	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Chloromethane	µg/l	1,100	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
cis-1,2-Dichloroethene	µg/l	70	5.6	5.6	< 3.3	20	18	13	13	10	13	17	31	31	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	0.23 J
cis-1,3-Dichloropropene	µg/l	NS	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Cyclohexane	µg/l	NS	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Dichloromethane	µg/l	5.0	< 17	< 13	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA
Diethyl ether	µg/l	10	< 6.7	< 5.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
Ethylbenzene	µg/l	74	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Isopropylbenzene	µg/l	2,300	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Methyl Acetate	µg/l	NS	< 33	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 33	< 25	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA
Methylcyclohexane	µg/l	NS	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-67			MW-68									MW-69							
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	9-14			15-20									15-20							
Date:	Unit		10/25/2018	02/28/2019	6/13/2019	4/24/2017	8/1/2017	11/10/2017	2/12/2018	5/15/2018	8/9/2018	10/25/2018	02/27/2019	6/12/2019	4/25/2017	11/10/2017	2/14/2018	5/10/2018	8/13/2018	11/6/2018	02/28/2019	6/12/2019
Methyl-tert-butylether	µg/l	40	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Styrene (Monomer)	µg/l	100	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Tetrachloroethene	µg/l	5.0	< 3.3	< 2.5	< 3.3	< 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
Toluene	µg/l	790	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Total Xylenes	µg/l	280	< 6.7	< 5.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA
trans-1,2-Dichloroethene	µg/l	100	0.88 J	1.4 J	< 3.3	1.9	1.9	1.5	1.8	1.4	1.7	2.1	3.6	4.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 3.3	< 2.5	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA
Trichloroethene	µg/l	5.0	**69**	**41**	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	0.26 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	2.0	< 3.3	1.7 J	< 3.3	**12**	**2.1**	**18**	**2.5**	**2.1**	**2.2**	**2.1**	**17**	**19**	**2.8**	< 1.0	< 1.0	**3.3**	**2.7**	1.4	**4.1**	**3.6**
Gases																						
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																						
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																						
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-70									MW-71									MW-113		MW-114		MW-120		MW-122
Screen Interval (ft. bgs):			15-20									15-20									5-10		5-10		7-12		16-21
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/6/2018	02/27/2019	6/11/2019	4/23/2019	6/12/2019	4/23/2019	6/13/2019	4/23/2019	6/15/2019	6/10/2019
Semi-volatile Organic Compounds (SVOCs)																											
1,4-Dioxane	µg/l	350	0.76 J	0.68 J	1.1 J	0.91 J	3.0	1.6 J	2.2	6.5	3.9	4.3	1.4 J	0.72 J	0.57 J	0.38 J	0.95 J	1.1 J	< 2.0	1.6 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NS
Volatile Organic Compounds (VOCs)																											
1,1,1-Trichloroethane	µg/l	200	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,1,2,2-Tetrachloroethane	µg/l	35	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,1,2-Trichloroethane	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,1-Dichloroethane	µg/l	2,500	2.4 J	3.3 J	3.4 J	< 13	2.2 J	< 13	2.5 J	2.3 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,1-Dichloroethene	µg/l	7.0	< 6.7	< 10	< 10	< 13	2.1 J	< 13	1.3 J	< 10	< 10	< 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	NS
1,2,3-Trimethylbenzene	µg/l	NS	< 33	< 50	< 50	< 67	NA*	< 63	< 20	< 50	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA	NA	NS
1,2,4-Trichlorobenzene	µg/l	70	< 6.7	< 10	< 10	< 13	2.5 J	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,2,4-Trimethylbenzene	µg/l	63	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,2-Dibromoethane	µg/l	0.05	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,2-Dichlorobenzene	µg/l	600	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,2-Dichloroethane	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,2-Dichloropropane	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,3,5-Trimethylbenzene	µg/l	72	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,3-Dichlorobenzene	µg/l	19	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
1,4-Dichlorobenzene	µg/l	75	< 6.7	< 10	< 10	< 13	0.79 J	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
2-Butanone (MEK)	µg/l	38,000	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NS
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NS
Acetone	µg/l	2,100	< 67	< 100	< 100	< 130	15 J	< 130	< 40	< 100	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NS
Benzene	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Bromodichloromethane	µg/l	80	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Bromoform	µg/l	80	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Bromomethane	µg/l	29	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Carbon Disulfide	µg/l	2,300	< 33	< 50	< 50	< 67	< 17	< 63	< 20	< 50	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA	NA	NS
Carbon Tetrachloride	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
CFC-11	µg/l	7,300	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
CFC-12	µg/l	4,800	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Chlorobenzene	µg/l	100	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Chlorodibromomethane	µg/l	80	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Chloroethane	µg/l	1,700	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Chloroform	µg/l	80	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Chloromethane	µg/l	1,100	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
cis-1,2-Dichloroethene	µg/l	70	**190**	**200**	**200**	**230**	**260**	**200**	**250**	**290**	**150**	< 1.0	< 1.0	0.39 J	0.37 J	0.40 J	0.34 J	0.36 J	0.30 J	0.42 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
cis-1,3-Dichloropropene	µg/l	NS	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Cyclohexane	µg/l	NS	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Dichloromethane	µg/l	5.0	**8.9 J**	< 50	< 50	< 67	< 17	< 63	< 20	< 50	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	NA	NA	NA	NA	NA	NA	NS
Diethyl ether	µg/l	10	< 13	< 20	< 20	< 27	< 6.7	< 25	1.8 J	< 20	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NS
Ethylbenzene	µg/l	74	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Isopropylbenzene	µg/l	2,300	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Methyl Acetate	µg/l	NS	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NS
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 67	< 100	< 100	< 130	< 33	< 130	< 40	< 100	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	NA	NA	NA	NA	NA	NA	NA	NS
Methylcyclohexane	µg/l	NS	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-70									MW-71									MW-113		MW-114		MW-120		MW-122
Screen Interval (ft. bgs):			15-20									15-20									5-10		5-10		7-12		16-21
Date:	Unit		4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/14/2018	8/9/2018	11/2/2018	02/26/2019	6/11/2019	4/24/2017	8/1/2017	11/13/2017	2/12/2018	5/8/2018	8/9/2018	11/6/2018	02/27/2019	6/11/2019	4/23/2019	6/12/2019	4/23/2019	6/13/2019	4/23/2019	6/15/2019	6/10/2019
Methyl-tert-butylether	µg/l	40	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Styrene (Monomer)	µg/l	100	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Tetrachloroethene	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 10	< 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	NS
Toluene	µg/l	790	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Total Xylenes	µg/l	280	< 13	< 20	< 20	< 27	< 6.7	< 25	< 8.0	< 20	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NS
trans-1,2-Dichloroethene	µg/l	100	3.8 J	4.2 J	5.1 J	4.4 J	3.0 J	3.3 J	4.4	3.8 J	2.4 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	NS
trans-1,3-Dichloropropene	µg/l	NS	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	NA	NA	NA	NA	NA	NS
Trichloroethene	µg/l	5.0	< 6.7	< 10	< 10	< 13	< 3.3	< 13	< 4.0	< 10	< 10	< 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	3.7	4.3	NS
Vinyl chloride	µg/l	2.0	**120**	**100**	**140**	**160**	**210**	**190**	**210**	**350**	**230**	< 1.0	0.68 J	0.83 J	0.59 J	0.59 J	< 1.0	0.31 J	0.40 J	0.77 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NS
Gases																											
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																											
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																											
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		MDEQ Non-Residential Drinking Water Criteria	MW-124		PW-16-01								PW-16-02								TW-16-01				
Screen Interval (ft. bgs):			5-10		9.7-19.7								6-21								12-17				
Date:	Unit		4/23/2019	6/13/2019	8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019	8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0	14	0.76 J	< 2.0	< 2.0	1.3 J	< 2.0	3.0	0.51 J	< 2.0	< 2.0	< 2.0	1.5 J	1.4 J	< 2.0	< 2.0	0.32 J	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																									
1,1,1-Trichloroethane	µg/l	200	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,1,2,2-Tetrachloroethane	µg/l	35	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,1,2-Trichloroethane	µg/l	5.0	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,1-Dichloroethane	µg/l	2,500	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	< 100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 10	< 13	< 33	< 33	< 25
1,2,3-Trimethylbenzene	µg/l	NS	NA	NA	< 5.0	< 1,000	< 71	< 71	< 200	< 200	< 5.0	NA	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	< 50	< 63	< 170	< 170	< 130
1,2,4-Trichlorobenzene	µg/l	70	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,2,4-Trimethylbenzene	µg/l	63	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,2-Dibromo-3-chloropropane	µg/l	0.2	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,2-Dibromoethane	µg/l	0.05	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,2-Dichlorobenzene	µg/l	600	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,2-Dichloroethane	µg/l	5.0	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,2-Dichloropropane	µg/l	5.0	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,3,5-Trimethylbenzene	µg/l	72	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,3-Dichlorobenzene	µg/l	19	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
1,4-Dichlorobenzene	µg/l	75	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
2-Butanone (MEK)	µg/l	38,000	NA	NA	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 100	< 130	< 330	< 330	< 250
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	NA	NA	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 100	< 130	< 330	< 330	< 250
Acetone	µg/l	2,100	NA	NA	< 10	< 2,000	< 140	32 J	< 400	< 400	< 10	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 100	< 130	< 330	68 J	< 250
Benzene	µg/l	5.0	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Bromodichloromethane	µg/l	80	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Bromoform	µg/l	80	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Bromomethane	µg/l	29	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Carbon Disulfide	µg/l	2,300	NA	NA	< 5.0	< 1,000	< 71	< 71	< 200	< 200	< 5.0	NA	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	< 50	< 63	< 170	< 170	< 130
Carbon Tetrachloride	µg/l	5.0	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
CFC-11	µg/l	7,300	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
CFC-12	µg/l	4,800	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Chlorobenzene	µg/l	100	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Chlorodibromomethane	µg/l	80	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Chloroethane	µg/l	1,700	NA	NA	0.55 J	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Chloroform	µg/l	80	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Chloromethane	µg/l	1,100	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
cis-1,2-Dichloroethene	µg/l	70	1.7	1.8	2.2	**550**	**82**	7.1 J	**180**	**250**	0.51 J	**300**	63	2.3	12	< 1.0	11	11	1.9	< 1.0	17	32	34	68	**140**
cis-1,3-Dichloropropene	µg/l	NS	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Cyclohexane	µg/l	NS	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Dichloromethane	µg/l	5.0	NA	NA	< 5.0	< 1,000	**11 J**	**8.6 J**	< 200	< 200	< 5.0	NA	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0	NA	< 50	**10 J**	**23 J**	**20 J**	< 130
Diethyl ether	µg/l	10	NA	NA	< 2.0	< 400	< 29	< 29	< 80	< 80	< 2.0	NA	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	NA	< 20	< 25	< 67	< 67	< 50
Ethylbenzene	µg/l	74	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Isopropylbenzene	µg/l	2,300	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Methyl Acetate	µg/l	NS	NA	NA	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 100	< 130	< 330	< 330	< 250
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	NA	NA	< 10	< 2,000	< 140	< 140	< 400	< 400	< 10	NA	< 50	< 10	< 10	< 10	< 10	< 20	< 10	NA	< 100	< 130	< 330	< 330	< 250
Methylcyclohexane	µg/l	NS	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-124		PW-16-01								PW-16-02								TW-16-01				
Screen Interval (ft. bgs):			5-10		9.7-19.7								6-21								12-17				
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	4/23/2019	6/13/2019	8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019	8/2/2017	11/7/2017	2/7/2018	5/15/2018	8/6/2018
Methyl-tert-butylether	µg/l	40	NA	NA	< 1.0	< 200	< 14	< 14 J	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33 J	< 25
Styrene (Monomer)	µg/l	100	NA	NA	0.35 J	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	< 100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 10	< 13	< 33	< 33	< 25
Toluene	µg/l	790	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Total Xylenes	µg/l	280	NA	NA	< 2.0	< 400	< 29	< 29	< 80	< 80	< 2.0	NA	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	NA	< 20	< 25	< 67	< 67	< 50
trans-1,2-Dichloroethene	µg/l	100	0.19 J	0.26 J	< 1.0	< 200	5.4 J	< 14	< 40	10 J	< 1.0	< 100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 10	< 13	< 33	11 J	7.5 J
trans-1,3-Dichloropropene	µg/l	NS	NA	NA	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	NA	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	NA	< 10	< 13	< 33	< 33	< 25
Trichloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 200	< 14	< 14	< 40	< 40	< 1.0	< 100	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 10	< 13	< 33	< 33	< 25
Vinyl chloride	µg/l	2.0	0.32 J	0.40 J	**24**	**5,300**	**160**	**37 J**	**870**	**1,400**	0.92 J	**2,100**	**160**	2.0	**18**	< 1.0	**71**	**62**	0.94 J	< 1.0	**210**	**320**	**380**	**720**	**680**
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			TW-16-01			TW-16-02									TW-16-03							
Screen Interval (ft. bgs):			12-17			12-17									9-19							
Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	10/30/2018	02/26/2019	6/10/2019	4/25/2017	8/2/2017	11/7/2017	2/14/2018	5/11/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	350	< 2.0	< 2.0	< 2.0 J	7.2	3.9	5.8	3.9	5.0	2.7	5.3	4.6	2.8	0.54 J	< 2.0	< 2.0	< 2.0	1.0 J	1.1 J	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																						
1,1,1-Trichloroethane	µg/l	200	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,1,2-Trichloroethane	µg/l	5.0	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,1-Dichloroethane	µg/l	2,500	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	0.44 J	< 6.7	0.43 J	NA
1,1-Dichloroethene	µg/l	7.0	< 25	< 100	< 33 J	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	< 250	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 1.0
1,2,3-Trimethylbenzene	µg/l	NS	< 130	< 500	NA	< 3,100	< 2,500	< 2,000	< 5,000	< 2,500	< 1,300	< 2,500	< 1,700	NA	< 20	< 17	< 50	< 13	< 10	< 33	< 8.4	NA
1,2,4-Trichlorobenzene	µg/l	70	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,2,4-Trimethylbenzene	µg/l	63	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,2-Dibromoethane	µg/l	0.05	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,2-Dichlorobenzene	µg/l	600	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,2-Dichloroethane	µg/l	5.0	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,2-Dichloropropane	µg/l	5.0	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,3,5-Trimethylbenzene	µg/l	72	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,3-Dichlorobenzene	µg/l	19	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
1,4-Dichlorobenzene	µg/l	75	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
2-Butanone (MEK)	µg/l	38,000	< 250	< 1,000	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 250	< 1,000	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA
Acetone	µg/l	2,100	< 250	< 1,000	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA
Benzene	µg/l	5.0	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Bromodichloromethane	µg/l	80	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Bromoform	µg/l	80	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Bromomethane	µg/l	29	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Carbon Disulfide	µg/l	2,300	< 130	< 500	NA	< 3,100	< 2,500	< 2,000	< 5,000	< 2,500	< 1,300	< 2,500	< 1,700	NA	< 20	< 17	< 50	< 13	< 10	< 33	< 8.4	NA
Carbon Tetrachloride	µg/l	5.0	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
CFC-11	µg/l	7,300	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
CFC-12	µg/l	4,800	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Chlorobenzene	µg/l	100	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Chlorodibromomethane	µg/l	80	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Chloroethane	µg/l	1,700	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Chloroform	µg/l	80	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Chloromethane	µg/l	1,100	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
cis-1,2-Dichloroethene	µg/l	70	**180**	**150**	**140**	**5,200**	**3,100**	**6,000**	**3,500**	**4,400**	**4,100**	**6,900**	**7,700**	**3,000**	37	36	40	39	36	42	33	14
cis-1,3-Dichloropropene	µg/l	NS	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Cyclohexane	µg/l	NS	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Dichloromethane	µg/l	5.0	< 130	< 500	NA	**1,200 J**	< 2,500	< 2,000	< 5,000	< 2,500	< 1,300	< 2,500	< 1,700	NA	< 20	< 17	< 50	< 13	< 10	< 33	< 8.4	NA
Diethyl ether	µg/l	10	< 50	< 200	NA	< 1,300	< 1,000	< 800	< 2,000	< 1,000	< 500	< 1,000	< 670	NA	< 8.0	< 6.7	< 20	< 5.0	< 4.0	< 13	< 3.3	NA
Ethylbenzene	µg/l	74	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Isopropylbenzene	µg/l	2,300	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Methyl Acetate	µg/l	NS	< 250	< 1,000	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 250	< 1,000	NA	< 6,300	< 5,000	< 4,000	< 10,000	< 5,000	< 2,500	< 5,000	< 3,300	NA	< 40	< 33	< 100	< 25	< 20	< 67	< 17	NA
Methylcyclohexane	µg/l	NS	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			TW-16-01			TW-16-02									TW-16-03							
Screen Interval (ft. bgs):		MDEQ Non-Residential Drinking Water Criteria	12-17			12-17									9-19							
Date:	Unit		10/30/2018	02/26/2019	6/10/2019	4/25/2017	8/2/2017	11/7/2017	2/14/2018	5/11/2018	8/6/2018	10/30/2018	02/26/2019	6/10/2019	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019
Methyl-tert-butylether	µg/l	40	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Styrene (Monomer)	µg/l	100	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Tetrachloroethene	µg/l	5.0	< 25	< 100	< 33 J	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	< 250	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 1.0
Toluene	µg/l	790	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Total Xylenes	µg/l	280	< 50	< 200	NA	< 1,300	< 1,000	< 800	< 2,000	< 1,000	< 500	< 1,000	< 670	NA	< 8.0	< 6.7	< 20	< 5.0	< 4.0	< 13	< 3.3	NA
trans-1,2-Dichloroethene	µg/l	100	14 J	22 J	8.0 J	< 630	< 500	< 400	< 1,000	< 500	56 J	< 500	**130 J**	< 250	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 1.0
trans-1,3-Dichloropropene	µg/l	NS	< 25	< 100	NA	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	NA	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	NA
Trichloroethene	µg/l	5.0	< 25	**15 J**	< 33 J	< 630	< 500	< 400	< 1,000	< 500	< 250	< 500	< 330	< 250	< 4.0	< 3.3	< 10	< 2.5	< 2.0	< 6.7	< 1.7	< 1.0
Vinyl chloride	µg/l	2.0	**830**	**750**	**550**	**15,000**	**12,000**	**13,000**	**9,100**	**8,500**	**7,300**	**12,000**	**8,900**	**5,800**	**100**	**77**	**95**	**78**	**76**	**97**	**48**	**20**
Gases																						
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other																						
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals																						
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	TW-16-04 9-19 4/25/2017	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/l	350	1.7 J	0.81 J	0.89 J	< 2.0	< 2.0	1.2 J	1.5 J	1.2 J	1.1 J
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	µg/l	200	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,1,2,2-Tetrachloroethane	µg/l	35	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,1,2-trichloro-1,2,2-trifluoroethane	µg/l	170,000	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,1,2-Trichloroethane	µg/l	5.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,1-Dichloroethane	µg/l	2,500	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	0.50 J	< 3.3	< 3.3	NA
1,1-Dichloroethene	µg/l	7.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	< 2.5
1,2,3-Trimethylbenzene	µg/l	NS	< 20	< 20	< 33	< 33	< 13	< 5.0	< 17	< 17	NA
1,2,4-Trichlorobenzene	µg/l	70	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,2,4-Trimethylbenzene	µg/l	63	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,2-Dibromo-3-chloropropane	µg/l	0.2	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,2-Dibromoethane	µg/l	0.05	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,2-Dichlorobenzene	µg/l	600	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,2-Dichloroethane	µg/l	5.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,2-Dichloropropane	µg/l	5.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,3,5-Trimethylbenzene	µg/l	72	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,3-Dichlorobenzene	µg/l	19	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
1,4-Dichlorobenzene	µg/l	75	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
2-Butanone (MEK)	µg/l	38,000	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33	NA
4-Methyl-2-Pentanone (MIBK)	µg/l	5,200	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33	NA
Acetone	µg/l	2,100	< 40	< 40	< 67	< 67	< 25	5.5 J	< 33	< 33	NA
Benzene	µg/l	5.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Bromodichloromethane	µg/l	80	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Bromoform	µg/l	80	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Bromomethane	µg/l	29	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Carbon Disulfide	µg/l	2,300	< 20	< 20	< 33	< 33	< 13	< 5.0	< 17	< 17	NA
Carbon Tetrachloride	µg/l	5.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
CFC-11	µg/l	7,300	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
CFC-12	µg/l	4,800	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Chlorobenzene	µg/l	100	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Chlorodibromomethane	µg/l	80	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Chloroethane	µg/l	1,700	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Chloroform	µg/l	80	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Chloromethane	µg/l	1,100	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
cis-1,2-Dichloroethene	µg/l	70	20	18	23	25	20	21	20	14	14
cis-1,3-Dichloropropene	µg/l	NS	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Cyclohexane	µg/l	NS	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Dichloromethane	µg/l	5.0	4.4 J	< 20	< 33	< 33	< 13	< 5.0	< 17	< 17	NA
Diethyl ether	µg/l	10	< 8.0	< 8.0	< 13	< 13	< 5.0	< 2.0	< 6.7	< 6.7	NA
Ethylbenzene	µg/l	74	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Isopropylbenzene	µg/l	2,300	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Methyl Acetate	µg/l	NS	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33	NA
Methyl N-Butyl Ketone (2-Hexanone)	µg/l	2,900	< 40	< 40	< 67	< 67	< 25	< 10	< 33	< 33	NA
Methylcyclohexane	µg/l	NS	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: / Screen Interval (ft. bgs): / Date:	Unit	MDEQ Non-Residential Drinking Water Criteria	TW-16-04 9-19								
			4/25/2017	8/3/2017	11/8/2017	2/14/2018	5/11/2018	8/8/2018	10/30/2018	02/25/2019	6/11/2019
Methyl-tert-butylether	µg/l	40	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Styrene (Monomer)	µg/l	100	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Tetrachloroethene	µg/l	5.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	< 2.5
Toluene	µg/l	790	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Total Xylenes	µg/l	280	< 8.0	< 8.0	< 13	< 13	< 5.0	< 2.0	< 6.7	< 6.7	NA
trans-1,2-Dichloroethene	µg/l	100	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	< 2.5
trans-1,3-Dichloropropene	µg/l	NS	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	NA
Trichloroethene	µg/l	5.0	< 4.0	< 4.0	< 6.7	< 6.7	< 2.5	< 1.0	< 3.3	< 3.3	< 2.5
Vinyl chloride	µg/l	2.0	**150**	**120**	**100**	**77**	**65**	**63**	**90**	**65**	**51**
Gases											
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other											
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals											
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 2
On-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:
Results are compared to the MDEQ Part 201 Generic Cleanup Criteria, December 31, 2013.
Bold Result denotes exceedance of MDEQ Non-Residential Drinking Water Criteria.
< Denotes not detected above reporting limit.

Abbreviations:

EGLE	Michigan Department of Environment, Great Lakes, and Energy
MDEQ	Michigan Department of Environmental Quality
ft. bgs	feet below ground surface
J	estimated result
NA	not analyzed/not available
NA*	result not reported due to laboratory instrument calibration
NS	no standard / not sampled
mg/l	milligrams per liter
µg/l	micrograms per liter

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-72	668.81	15-20	05/22/17	NP	6.98	19.31	NM	661.83	661.83
			07/24/17	NP	8.60	19.60	NM	660.21	660.21
			11/06/17	NP	9.20	19.54	NM	659.61	659.61
			02/05/18	NP	8.58	19.86	NM	660.23	660.23
			05/07/18	NP	6.83	19.63	NM	661.98	661.98
			08/16/18	NP	8.68	NM	NM	660.13	660.13
			11/19/18	NP	7.72	19.64	NM	661.09	661.09
			02/22/19	NP	7.48	19.61	NM	661.33	661.33
			06/14/19	NP	6.86	19.65	NM	661.95	661.95
MW-72S	668.96	3-13	03/05/19	NP	7.56	13.05	NM	661.40	661.40
			06/14/19	NP	7.00	13.03	NM	661.96	661.96
MW-73S	666.89	7-12	05/22/17	NP	4.72	11.31	NM	662.17	662.17
			07/24/17	NP	6.38	11.48	NM	660.51	660.51
			11/06/17	NP	6.94	11.42	NM	659.95	659.95
			02/05/18	NP	6.30	11.62	NM	660.59	660.59
			05/07/18	NP	4.77	11.55	NM	662.12	662.12
			08/16/18	NP	6.25	NM	NM	660.64	660.64
			11/19/18	NP	5.45	11.54	NM	661.44	661.44
			12/10/19	Abandoned					
MW-73SR	667.00	2.5-12.5	02/22/19	NP	5.56	12.38	NM	661.44	661.44
			06/14/19	NP	4.80	12.40	NM	662.20	662.20
MW-73D	667.08	13.5-18.5	05/22/17	NP	4.98	17.21	NM	662.10	662.10
			07/24/17	NP	6.64	17.47	NM	660.44	660.44
			11/06/17	NP	7.22	17.38	NM	659.86	659.86
			02/05/18	NP	6.54	17.52	NM	660.54	660.54
			05/07/18	NP	5.02	17.36	NM	662.06	662.06
			08/16/18	NP	6.49	NM	NM	660.59	660.59
			11/19/18	NP	5.73	17.35	NM	661.35	661.35
			02/22/19	NP	5.54	17.37	NM	661.54	661.54
			06/14/19	NP	4.79	17.37	NM	662.29	662.29
MW-74	668.02	14-19	05/22/17	NP	5.94	18.52	NM	662.08	662.08
			07/24/17	NP	7.47	18.81	NM	660.55	660.55
			11/06/17	NP	8.12	18.76	NM	659.90	659.90
			02/05/18	NP	7.49	18.85	NM	660.53	660.53
			05/07/18	NP	5.95	18.77	NM	662.07	662.07
			08/16/18	NP	7.38	NM	NM	660.64	660.64
			11/19/18	NP	6.25	18.77	NM	661.77	661.77
			02/22/19	NP	6.45	18.76	NM	661.57	661.57
			06/14/19	NP	5.63	18.76	NM	662.39	662.39
MW-74S	667.93	3-13	02/22/19	NP	6.44	12.78	NM	661.49	661.49
			06/14/19	NP	5.65	12.77	NM	662.28	662.28
MW-75S	666.86	5-10	05/22/17	NP	5.16	9.23	NM	661.70	661.70
			07/24/17	NP	6.15	9.48	NM	660.71	660.71
			11/06/17	NP	6.83	9.43	NM	660.03	660.03
			02/05/18	NP	6.56	9.82	NM	660.30	660.30
			05/07/18	NP	5.08	9.67	NM	661.78	661.78
			08/16/18	NP	5.81	NM	NM	661.05	661.05
			11/19/18	NP	5.47	9.62	NM	661.39	661.39
			12/10/19	Abandoned					
MW-75SR	666.96	2.5-12.5	02/22/19	NP	5.60	12.38	NM	661.36	661.36
			06/14/19	NP	4.63	12.36	NM	662.33	662.33

See Notes on Last Page.

Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-75D	666.89	12-17	05/22/17	NP	5.20	16.59	NM	661.69	661.69
			07/24/17	NP	6.19	16.78	NM	660.70	660.70
			11/06/17	NP	6.81	17.80	NM	660.08	660.08
			02/05/18	NP	6.59	16.83	NM	660.30	660.30
			05/07/18	NP	5.04	16.77	NM	661.85	661.85
			08/16/18	NP	6.09	NM	NM	660.80	660.80
			11/19/18	NP	5.51	17.74	NM	661.38	661.38
			02/22/19	NP	5.72	16.78	NM	661.17	661.17
			06/14/19	NP	4.57	16.74	NM	662.32	662.32
MW-76	670.10	15-20	05/22/17	NP	9.43	19.44	NM	660.67	660.67
			07/24/17	NP	10.05	19.73	NM	660.05	660.05
			11/06/17	NP	10.73	19.66	NM	659.37	659.37
			02/05/18	NP	10.89	19.71	NM	659.21	659.21
			05/07/18	NP	9.34	19.64	NM	660.76	660.76
			08/16/18	NP	9.59	NM	NM	660.51	660.51
			11/19/18	NP	9.25	19.60	NM	660.85	660.85
			02/22/19	NP	9.75	19.62	NM	660.35	660.35
			06/14/19	NP	8.56	19.61	NM	661.54	661.54
MW-76S	669.98	4.5-14.5	02/22/19	NP	9.64	14.15	NM	660.34	660.34
			06/14/19	NP	8.55	14.50	NM	661.43	661.43
MW-77	660.56	9-14	05/22/17	NP	4.59	13.45	NM	655.97	655.97
			07/24/17	NP	5.90	13.75	NM	654.66	654.66
			11/06/17	NP	6.30	13.67	NM	654.26	654.26
			02/05/18	NP	5.43	13.75	NM	655.13	655.13
			05/07/18	NP	4.28	13.70	NM	656.28	656.28
			08/16/18	NP	5.88	NM	NM	654.68	654.68
			11/19/18	NP	4.59	13.69	NM	655.97	655.97
			02/22/19	NP	4.64	13.72	NM	655.92	655.92
			06/14/19	NP	4.23	13.71	NM	656.33	656.33
MW-77S	660.55	2.5-12.5	02/22/19	NP	4.53	12.16	NM	656.02	656.02
			06/14/19	NP	4.12	12.14	NM	656.43	656.43
MW-78	657.23	7-12	05/22/17	NP	1.78	11.47	NM	655.45	655.45
			07/24/17	NP	3.55	11.79	NM	653.68	653.68
			11/06/17	NP	3.50	11.72	NM	653.73	653.73
			02/05/18	NP	3.09	11.80	NM	654.14	654.14
			05/07/18	NP	1.54	11.75	NM	655.69	655.69
			08/16/18	NP	3.53	NM	NM	653.70	653.70
			11/19/18	NP	1.68	11.71	NM	655.55	655.55
			02/22/19	NP	2.02	11.75	NM	655.21	655.21
			06/14/19	NP	1.19	11.75	NM	656.04	656.04
MW-78S	657.61	2.5-12.5	02/22/19	NP	2.37	12.40	NM	655.24	655.24
			06/14/19	NP	1.51	12.38	NM	656.10	656.10
MW-79S	663.10	5-10	05/22/17	NP	4.15	9.49	NM	658.95	658.95
			07/24/17	NP	6.37	9.76	NM	656.73	656.73
			11/06/17	NP	6.56	9.71	NM	656.54	656.54
			02/05/18	NP	5.46	9.78	NM	657.64	657.64
			05/07/18	NP	3.49	9.73	NM	659.61	659.61
			08/16/18	NP	6.40	NM	NM	656.70	656.70
			11/19/18	NP	4.50	9.71	NM	658.60	658.60
			12/10/18	Abandoned					
MW-79SR	663.06	2.5-12.5	02/22/19	NP	4.19	12.28	NM	658.87	658.87
			06/14/19	NP	3.50	12.50	NM	659.56	659.56

See Notes on Last Page.

Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-79D	663.35	10-15	05/22/17	NP	4.20	14.38	NM	659.15	659.15
			07/24/17	NP	6.45	14.66	NM	656.90	656.90
			11/06/17	NP	6.62	14.60	NM	656.73	656.73
			02/05/18	NP	5.51	14.69	NM	657.84	657.84
			05/07/18	NP	3.55	14.62	NM	659.80	659.80
			08/16/18	NP	6.49	NM	NM	656.86	656.86
			11/19/18	NP	4.58	14.60	NM	658.77	658.77
			02/22/19	NP	4.33	14.64	NM	659.02	659.02
			06/14/19	NP	3.63	14.62	NM	659.72	659.72
MW-80S	656.08	7-12	05/22/17	NP	2.41	11.29	NM	653.67	653.67
			07/24/17	NP	4.19	11.50	NM	651.89	651.89
			11/06/17	NP	3.41	11.53	NM	652.67	652.67
			02/05/18	NP	2.86	11.81	NM	653.22	653.22
			05/07/18	NP	1.23	11.56	NM	654.85	654.85
			08/16/18	NP	4.14	NM	NM	651.94	651.94
			11/19/18	NP	2.17	11.53	NM	653.91	653.91
			12/10/18	Abandoned					
MW-80SR	656.23	2.5-12.5	03/06/19	NP	2.43	12.21	NM	653.80	653.80
			06/14/19	NP	1.39	12.24	NM	654.84	654.84
MW-81	657.32	8-13	05/22/17	NP	6.05	12.40	NM	651.27	651.27
			07/24/17	NP	7.24	12.70	NM	650.08	650.08
			11/06/17	NP	8.27	12.63	NM	649.05	649.05
			02/05/18	NP	7.29	12.71	NM	650.03	650.03
			05/07/18	NP	5.98	12.66	NM	651.34	651.34
			08/16/18	NP	7.40	NM	NM	649.92	649.92
			11/19/18	NP	6.62	12.64	NM	650.70	650.70
			02/22/19	NP	6.19	12.67	NM	651.13	651.13
			06/14/19	NP	5.85	12.65	NM	651.47	651.47
MW-81S	657.67	2.5-12.5	02/22/19	NP	6.49	12.52	NM	651.18	651.18
			06/14/19	NP	5.18	12.51	NM	652.49	652.49
MW-82S	658.63	9-14	05/22/17	NP	6.93	13.12	NM	651.70	651.70
			07/24/17	NP	8.24	11.50	NM	650.39	650.39
			11/06/17	NP	9.08	13.34	NM	649.55	649.55
			02/05/18	NP	8.32	13.44	NM	650.31	650.31
			05/07/18	NP	7.10	13.36	NM	651.53	651.53
			08/16/18	NP	8.38	NM	NM	650.25	650.25
			11/19/18	NP	7.62	13.37	NM	651.01	651.01
			12/10/18	Abandoned					
MW-82SR	658.92	5-15	02/22/19	NP	7.47	16.12	NM	651.45	651.45
			06/14/19	NP	6.85	15.10	NM	652.07	652.07
MW-82D	658.45	18-23	05/22/17	NP	7.34	22.45	NM	651.11	651.11
			07/24/17	NP	8.50	22.80	NM	649.95	649.95
			11/06/17	NP	9.41	22.72	NM	649.04	649.04
			02/05/18	NP	8.65	22.81	NM	649.80	649.80
			05/07/18	NP	7.33	22.74	NM	651.12	651.12
			08/16/18	NP	8.49	NM	NM	649.96	649.96
			11/19/18	NP	7.59	22.70	NM	650.86	650.86
			03/06/19	NP	7.65	23.00	NM	650.80	650.80
			06/14/19	NP	7.10	22.70	NM	651.35	651.35

See Notes on Last Page.

Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-83	660.09	8-13	05/22/17	NP	6.46	12.11	NM	653.63	653.63
			07/24/17	NP	7.61	12.44	NM	652.48	652.48
			11/06/17	NP	8.08	12.46	NM	652.01	652.01
			02/05/18	NP	7.53	12.48	NM	652.56	652.56
			05/07/18	NP	6.28	12.43	NM	653.81	653.81
			08/16/18	NP	7.71	NM	NM	652.38	652.38
			11/19/18	NP	6.78	12.38	NM	653.31	653.31
			02/22/19	NP	6.71	12.40	NM	653.38	653.38
			06/14/19	NP	6.25	12.40	NM	653.84	653.84
MW-83S	660.26	3-13	02/22/19	NP	6.87	12.80	NM	653.39	653.39
			06/14/19	NP	6.41	12.80	NM	653.85	653.85
MW-84	662.50	8-13	05/22/17	NP	3.26	12.28	NM	659.24	659.24
			07/24/17	NP	5.19	12.59	NM	657.31	657.31
			11/06/17	NP	5.54	12.52	NM	656.96	656.96
			02/05/18	NP	4.60	12.60	NM	657.90	657.90
			05/07/18	NP	2.90	12.55	NM	659.60	659.60
			08/16/18	NP	5.22	NM	NM	657.28	657.28
			11/19/18	NP	3.56	12.54	NM	658.94	658.94
			02/22/19	NP	3.50	12.56	NM	659.00	659.00
			06/14/19	NP	2.71	12.50	NM	659.79	659.79
MW-84S	662.69	2.5-12.5	02/22/19	NP	3.67	12.71	NM	659.02	659.02
			06/14/19	NP	2.85	12.72	NM	659.84	659.84
MW-85	658.85	8-13	05/22/17	NP	4.71	12.43	NM	654.14	654.14
			07/24/17	NP	6.12	12.75	NM	652.73	652.73
			11/06/17	NP	6.34	12.70	NM	652.51	652.51
			02/05/18	NP	5.53	12.76	NM	653.32	653.32
			05/07/18	NP	4.16	12.69	NM	654.69	654.69
			08/16/18	NP	6.12	NM	NM	652.73	652.73
			11/19/18	NP	5.33	12.66	NM	653.52	653.52
			02/22/19	NP	4.75	12.70	NM	654.10	654.10
			06/14/19	NP	4.50	12.70	NM	654.35	654.35
MW-85S	NS	2.5-12.5	12/07/18	NP	5.42	12.35	NM	NA	NA
			03/01/19	Abandoned					
MW-85SR	659.31	4.5-9.5	06/14/19	NP	4.70	8.45	NM	654.61	654.61
MW-86	666.11	12-17	05/22/17	NP	6.25	16.35	NM	659.86	659.86
			07/24/17	NP	8.07	16.66	NM	658.04	658.04
			11/06/17	NP	8.70	16.58	NM	657.41	657.41
			02/05/18	NP	7.87	16.72	NM	658.24	658.24
			05/07/18	NP	6.03	16.60	NM	660.08	660.08
			08/16/18	NP	8.06	NM	NM	658.05	658.05
			11/19/19	NP	6.66	16.59	NM	659.45	659.45
			02/22/19	NP	6.67	16.61	NM	659.44	659.44
			06/14/19	NP	5.78	16.64	NM	660.33	660.33
MW-86S	666.14	2.5-12.5	02/22/19	NP	6.83	12.33	NM	659.31	659.31
			06/14/19	NP	5.93	12.33	NM	660.21	660.21

See Notes on Last Page.

Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-87	668.89	14-19	05/22/17	NP	9.41	18.55	NM	659.48	659.48
			07/24/17	NP	10.65	18.85	NM	658.24	658.24
			11/06/17	NP	11.42	18.79	NM	657.47	657.47
			02/05/18	NP	11.06	18.86	NM	657.83	657.83
			05/07/18	NP	9.39	18.80	NM	659.50	659.50
			08/16/18	NP	10.61	NM	NM	658.28	658.28
			11/19/18	NP	9.68	18.79	NM	659.21	659.21
			11/20/18	NP	6.62	12.86	NM	662.27	662.27
			11/20/18	NP	4.40	12.63	NM	664.49	664.49
			11/20/18	NP	2.38	12.15	NM	666.51	666.51
			11/20/18	NM	NM	NM	NM	NA	NA
			11/20/18	NP	5.14	12.08	NM	663.75	663.75
			11/20/18	NP	6.50	12.02	NM	662.39	662.39
			11/20/18	NP	5.69	12.24	NM	663.20	663.20
			11/20/18	NP	3.58	12.02	NM	665.31	665.31
			02/22/19	NP	9.79	18.82	NM	659.10	659.10
			06/14/19	NP	8.75	18.81	NM	660.14	660.14
MW-87S	668.65	4.5-14.5	02/22/19	NP	9.95	14.14	NM	658.70	658.70
			06/14/19	NP	8.55	14.12	NM	660.10	660.10
MW-96S	662.21	2.5-12.5	02/22/19	NP	5.13	12.10	NM	657.08	657.08
			06/14/19	NP	4.57	12.08	NM	657.64	657.64
MW-97S	660.07	2.5-12.5	03/06/19	NP	4.47	11.96	NM	655.60	655.60
			06/14/19	NP	3.96	12.01	NM	656.11	656.11
MW-98S	656.10	2.5-12.5	02/22/19	NP	1.60	12.09	NM	654.50	654.50
			06/14/19	NP	0.79	12.10	NM	655.31	655.31
MW-99S	667.38	3.0-13.0	02/22/19	NP	6.00	12.84	NM	661.38	661.38
			06/14/19	NP	5.20	12.86	NM	662.18	662.18
MW-100S	667.64	3.0-13.0	02/22/19	NP	6.64	12.90	NM	661.00	661.00
			06/14/19	NP	5.53	12.88	NM	662.11	662.11
MW-101S	668.82	4.5-14.5	03/06/19	NP	8.21	14.01	NM	660.61	660.61
			06/14/19	NP	7.78	14.07	NM	661.04	661.04
MW-102	660.87	10.0-15.0	02/22/19	NP	1.17	14.65	NM	659.70	659.70
			06/14/19	NP	0.70	14.65	NM	660.17	660.17
MW-102S	661.01	2.5-12.5	02/22/19	NP	1.33	12.35	NM	659.68	659.68
			06/14/19	NP	0.80	12.35	NM	660.21	660.21
MW-105S	661.45	2.5-12.5	02/22/19	NP	2.88	11.80	NM	658.57	658.57
			06/14/19	NP	2.25	11.80	NM	659.20	659.20
MW-106S	655.03	2.5-12.5	02/22/19	NP	2.76	11.70	NM	652.27	652.27
			06/14/19	NP	2.18	11.65	NM	652.85	652.85
MW-107S	657.86	2.5-12.5	02/22/19	NP	5.52	12.20	NM	652.34	652.34
			06/14/19	NP	5.11	12.50	NM	652.75	652.75
MW-108S	657.54	2.5-12.5	02/22/19	Could Not Locate					
			06/14/19	NP	3.05	12.25	NM	654.49	654.49
MW-125	665.81	7.0-12.0	03/14/19	NP	1.05	11.87	NM	664.76	664.76
			06/14/19	NP	1.05	11.87	NM	664.76	664.76
MW-125S	665.491	2.0-7.0	06/14/19	NP	1.90	6.86	NM	663.59	663.59
MW-129	665.241	10.0-15.0	06/14/19	NP	3.00	14.60	NM	662.24	662.24
MW-131S	660.96	2.5-12.5	02/22/19	NP	4.13	12.70	NM	656.83	656.83
			06/14/19	NP	6.70	12.65	NM	654.26	654.26

See Notes on Last Page.

Table 3
Off-Site Groundwater Elevations
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Well ID	TOC Elevation (ft. amsl)	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Groundwater Elevation (ft. amsl)	Corrected Groundwater Elevation (ft. amsl)
MW-132S	659.86	2.5-12.5	02/22/19	NP	5.28	12.38	NM	654.58	654.58
			06/14/19	NP	5.25	12.40	NM	654.61	654.61
MW-133S	657.91	4.0-9.0	06/14/19	NP	5.35	8.55	NM	652.56	652.56
MW-134S	658.75	5.0-10.0	06/14/19	NP	6.30	9.40	NM	652.45	652.45
MW-135S	657.67	5.0-10.0	06/14/19	NP	5.30	9.70	NM	652.37	652.37
MW-136S	655.53	2.0-7.0	06/14/19	NP	2.16	7.50	NM	653.37	653.37
MW-137S	656.10	2.0-7.0	06/14/19	NP	1.60	7.20	NM	654.50	654.50
MW-138S	653.92	2.0-7.0	06/14/19	NP	0.20	5.95	NM	653.72	653.72
MW-139S	660.14	2.0-7.0	06/14/19	NP	1.17	6.90	NM	658.97	658.97
MW-140S	662.23	2.0-7.0	06/14/19	NP	2.46	6.48	NM	659.77	659.77
MW-141S	663.67	3.0-8.0	06/14/19	NP	4.00	7.60	NM	659.67	659.67
MW-142S	657.90	2.5-7.5	06/14/19	NP	3.55	6.75	NM	654.35	654.35
MW-186S	657.35	2.5-7.5	06/14/19	NP	3.15	7.75	NM	654.20	654.20
MW-187	659.34	8.0-13.0	06/14/19	NP	4.75	12.75	NM	654.59	654.59
MW-187S	659.30	3.0-8.0	06/14/19	NP	4.75	8.70	NM	654.55	654.55
MW-188S	659.33	3.0-8.0	06/14/19	NP	4.35	7.50	NM	654.98	654.98
MW-189	661.10	10.0-15.0	06/14/19	NP	4.47	13.98	NM	656.63	656.63
MW-189S	661.15	4.5-9.5	06/14/19	NP	4.59	9.12	NM	656.56	656.56
MW-190	661.96	9.0-14.0	06/14/19	NP	2.54	13.37	NM	659.42	659.42
MW-190S	661.94	2.5-7.5	06/14/19	NP	2.58	6.83	NM	659.36	659.36
MW-192S	654.92	2.5-7.5	06/14/19	NP	1.45	7.70	NM	653.47	653.47

Notes:
Water level measurements collected from top of well casing.
MW-81 and MW-83 were re-surveyed on November 20, 2017 by Geodetic Designs Inc.

Abbreviations:

ft.	feet
ft. amsl	feet above mean sea level
ft. bgs	feet below ground surface
ft. btoc	feet below top of casing
LNAPL	light non-aqueous phase liquid
NA	not applicable
NM	not measured
NP	no product detected
NS	not surveyed
TOC	top of casing

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-72									MW-72S			MW-73D								
Screen Interval (ft. bgs):		Residential Drinking Water Criteria	15-20									3-13			13.5-18.5								
Date:	Unit		5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/10/2018	10/22/2018	3/5/2019	5/17/2019	12/17/2018	3/5/2019	5/8/2019	5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/10/2018	10/22/2018	3/4/2019	5/8/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	7.2	1.1 J	0.53 J	0.97 J	0.78 J	0.32 J	1.1 J	1.4 J	0.91 J	< 2.0	< 2.0	< 2.0	< 2.0	3.2	3.1	2.8	1.5 J	3.0	1.9 J	3.8	1.6 J	2.3
Volatile Organic Compounds (VOCs)																							
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	0.45 J	0.50 J	0.43 J	0.35 J	0.56 J	0.19 J	0.30 J	< 1.0
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0
Vinyl chloride	µg/l	1.0	**3.9**	**2.9**	**1.6**	**1.3**	**1.5 J**	**1.2**	**1.1**	**1.9**	**1.7**	< 1.0	0.24 J	< 1.0	**1.1**	0.85 J	**1.3**	0.79 J	0.80 J	0.75 J	< 1.0	0.71 J	< 1.0
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																							
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-73S							MW-73SR			MW-74									MW-74S		
Screen Interval (ft. bgs):			7-12							2.5-12.5			14-19									3-13		
Date:	Unit	Residential Drinking Water Criteria	5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/10/2018	10/22/2018	12/17/2018	3/4/2019	5/8/2019	5/23/2017	7/26/2017	11/7/2017	2/6/2018	5/9/2018	8/9/2018	10/22/2018	3/8/2019	5/17/2019	12/21/2018	3/8/2019	5/8/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	7.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.86 J	0.87 J	< 2.0	< 2.0	< 2.0	1.5 J	1.3 J	0.66 J	0.34 J	1.6 J	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	1.9	1.8	1.3	1.3	1.5	1.7	2.3	2.1	1.8	NA	< 1.0	< 1.0	0.42 J	0.96 J	0.41 J	0.45 J	0.84 J	1.3	1.3	0.82 J	0.97 J
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	0.43 J	0.25 J	< 1.0	NA	< 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	1.0	0.40 J	0.48 J	0.48 J	0.33 J	0.38 J	0.51 J	0.46 J	0.29 J	0.23 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
Vinyl chloride	µg/l	1.0	**1.6**	**1.3**	**1.9**	**1.1**	**1.2**	0.62 J	0.96 J	**1.7**	**1.5**	< 1.0	< 1.0	**2.7**	**2.4**	**2.0**	0.70 J	**2.8**	**2.2**	**1.1**	< 1.0	< 1.0	< 1.0	< 1.0
Metals																								
Iron, Dissolved	µg/l	300	**3,900**	NA	**1,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	**3,900**	NA	**1,200**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**1,200**	NA	**940**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	**1,200**	NA	**890**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																								
Nitrate-N	mg/l	10	< 1.0	NA	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	80	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																								
Carbon, Dissolved	mg/l	NS	6.1	NA	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	5.2	NA	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																								
Ethane	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		Residential Drinking Water Criteria	MW-75D									MW-75S									MW-75SR		
Screen Interval (ft. bgs):			12-17									5-10									2.5-12.5		
Date:	Unit		5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/9/2018	8/9/2018	10/22/2018	3/7/2019	5/15/2019	5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/9/2018	8/9/2018	10/22/2018	12/18/2018	3/7/2019	12/18/2019	3/7/2019	5/9/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	7.2	1.9 J	1.8 J	1.8 J	0.91 J	0.65 J	2.0	2.3	1.5 J	1.5 J	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	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	1.0	**6.4**	**3.7**	**4.9 J**	**1.9**	**2.4**	**1.8**	**1.7**	**1.6**	**1.7**	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 100	NA	**330**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	210	NA	**350**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	**63**	NA	42	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	**70**	NA	42	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																							
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	**21**	NA	8.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	89	NA	110	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.6	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.95 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,200	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-76										MW-76S			MW-77								
Screen Interval (ft. bgs):			15-20										4.5-14.5			9-14								
Date:	Unit	Residential Drinking Water Criteria	5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/10/2018	8/9/2018	10/22/2018	12/21/2018	3/1/2019	5/17/2019	12/21/2018	3/1/2019	5/8/2019	5/25/2017	7/26/2017	11/10/2017	2/8/2018	5/11/2018	8/6/2018	10/23/2018	3/4/2019	5/16/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	7.2	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.0 J	< 2.0	<2.0	< 2.0	<2.0	< 2.0	< 2.0	NA	0.32 J	< 2.0	< 2.0	0.27 J	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	<1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	NA	3.9	4.0	2.2	2.6	2.2	1.8	< 1.0	1.3	1.2	<1.0	<1.0	< 1.0	NA	0.67 J	0.73 J	0.66 J	0.54 J	0.61 J	0.74 J	0.60 J	0.39 J
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	<1.0	<1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	NA	0.54 J	0.49 J	< 1.0	0.35 J	0.35 J	0.25 J	< 1.0	0.22 J	< 1.0	<1.0	<1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	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	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0
Vinyl chloride	µg/l	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	0.51 J	0.45 J	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	0.48 J	0.24 J
Metals																								
Iron, Dissolved	µg/l	300	**340**	NA	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	**480**	NA	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**760**	NA	**760**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	**800**	NA	**770**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																								
Nitrate-N	mg/l	10	1.2 J	NA	3.3 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	120	NA	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																								
Carbon, Dissolved	mg/l	NS	1.1	NA	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	0.90 J	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																								
Ethane	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-77S			MW-78										MW-78S			MW-79D					
Screen Interval (ft. bgs):			2.5-12.5			7-12										2.5-12.5			10-15					
Date:	Unit	Residential Drinking Water Criteria	12/27/2018	3/4/2019	5/16/2019	5/25/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/22/2018	12/19/2018	2/26/2019	5/13/2019	12/19/2018	2/26/2019	5/13/2019	5/24/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	7.2	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.90 J	< 2.0	< 2.0	< 2.0	<2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	0.49 J	0.87 J
Volatile Organic Compounds (VOCs)																								
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/l	70	< 1.0	0.30 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	0.26 J	< 1.0	0.22 J	0.19 J	<1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/l	100	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	0.22 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
Vinyl chloride	µg/l	1.0	< 1.0	0.20 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	**3.2**	**4.1**	**3.6**	**1.9**	**3.5**	**2.8**
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																								
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-79D			MW-79S							MW-79SR			MW-80S						
Screen Interval (ft. bgs):		Residential Drinking Water Criteria	10-15			5-10							2.5-12.5			7-12						
Date:	Unit		10/24/2018	3/7/2019	5/15/2019	5/24/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/30/2018	12/19/2018	3/1/2019	5/15/2019	5/24/2017	7/25/2017	11/8/2017	2/8/2018	5/8/2018	8/6/2018	10/22/2018
Semi-volatile Organic Compounds (SVOCs)																						
1,4-Dioxane	µg/l	7.2	0.95 J	< 2.0	0.99 J	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	<2.0	< 2.0	NA	0.52 J	0.55 J	0.33 J	0.46 J	< 2.0	1.2 J
Volatile Organic Compounds (VOCs)																						
1,1-Dichloroethene	µg/l	7.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	<1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	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	1.0	**1.3**	**1.6**	**2.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.56 J	0.53 J	0.36 J	**4.6**	**7.1**	**7.6**	**2.9**	**6.3**	**6.2**	**4.1**
Metals																						
Iron, Dissolved	µg/l	300	NA	NA	NA	**990**	NA	**2,500**	NA	NA	NA	NA	NA	NA	NA	**600**	NA	**3,600**	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	**1,100**	NA	**2,900**	NA	NA	NA	NA	NA	NA	NA	**530**	NA	**3,600**	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	**110**	NA	**200**	NA	NA	NA	NA	NA	NA	NA	**200**	NA	**230**	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	**120**	NA	**200**	NA	NA	NA	NA	NA	NA	NA	**190**	NA	**230**	NA	NA	NA	NA
Anions																						
Nitrate-N	mg/l	10	NA	NA	NA	0.063 J	NA	< 0.10	NA	NA	NA	NA	NA	NA	NA	< 0.10	NA	< 0.10	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	41	NA	69	NA	NA	NA	NA	NA	NA	NA	97	NA	110	NA	NA	NA	NA
Total Organic Carbon (TOC)																						
Carbon, Dissolved	mg/l	NS	NA	NA	NA	4.1	NA	4.9	NA	NA	NA	NA	NA	NA	NA	5.6	NA	5.7	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	3.1	NA	4.4	NA	NA	NA	NA	NA	NA	NA	4.5	NA	5.2	NA	NA	NA	NA
Gases																						
Ethane	µg/l	NS	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	55	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-80SR			MW-81									MW-81S			MW-82D								
Screen Interval (ft. bgs):			2.5-12.5			8-13									2.5-12.5			18-23							
Date:	Unit	Residential Drinking Water Criteria	12/27/2018	3/6/2019	5/10/2019	5/26/2017	7/25/2017	11/9/2017	2/6/2018	5/10/2018	8/9/2018	10/23/2018	3/6/2019	5/17/2019	12/26/2018	3/6/2019	5/17/2019	5/24/2017	7/25/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/23/2018	3/6/2019	5/17/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	7.2	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	0.18 J	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	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	< 1.0
Vinyl chloride	µg/l	1.0	**1.4**	**2.1**	**3.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.69 J	< 1.0	< 1.0	0.66 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.78 J	< 1.0
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																									
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-82S							MW-82SR			MW-83									MW-83S		
Screen Interval (ft. bgs):			9-14							5-15			8-13									3-13		
Date:	Unit	Residential Drinking Water Criteria	5/24/2017	7/25/2017	11/8/2017	2/6/2018	5/10/2018	8/8/2018	10/23/2018	12/26/2018	3/5/2019	5/17/2019	5/26/2017	7/25/2017	11/9/2017	2/8/2018	5/11/2018	8/8/2018	10/22/2018	3/5/2019	5/22/2019	12/26/2018	3/5/2019	5/22/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	7.2	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.92 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																								
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	0.23 J	0.20 J	< 1.0
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J	< 1.0
Metals																								
Iron, Dissolved	µg/l	300	180	NA	**710**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	**380**	NA	**720**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	**510**	NA	**390**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	**550**	NA	**380**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																								
Nitrate-N	mg/l	10	< 0.10	NA	< 0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	**470**	NA	**270**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																								
Carbon, Dissolved	mg/l	NS	2.7	NA	4.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	2.1	NA	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																								
Ethane	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-84									MW-84S			MW-85									MW-85S
Screen Interval (ft. bgs):			8-13									2.5-12.5			8-13									2.5-12.5
Date:	Unit	Residential Drinking Water Criteria	5/25/2017	7/25/2017	11/9/2017	2/8/2018	5/8/2018	8/6/2018	10/23/2018	2/28/2019	5/21/2019	12/21/2018	2/28/2019	5/9/2019	5/25/2017	7/25/2017	11/7/2017	2/8/2018	5/8/2018	8/8/2018	10/22/2018	2/26/2019	5/17/2019	12/21/2018
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	7.2	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.86 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	0.29 J	< 2.0	0.41 J	0.45 J	< 2.0	1.0 J	< 2.0	1.3 J	1.1 J
Volatile Organic Compounds (VOCs)																								
1,1-Dichloroethene	µg/l	7.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	5.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.14 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
Vinyl chloride	µg/l	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	**8.6**	**7.3**	**7.3**	**5.5**	**7.5**	**7.2**	**5.5**	**5.5**	**5.4**	**7.8**
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																								
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-85SR	MW-86									MW-86S			MW-87									
Screen Interval (ft. bgs):			4.5-9.5	12-17									2.5-12.5			14-19									
Date:	Unit	Residential Drinking Water Criteria	4/12/2019	5/25/2017	7/26/2017	11/10/2017	2/8/2018	5/10/2018	8/6/2018	10/24/2018	2/28/2019	5/21/2019	12/18/2018	2/28/2019	5/13/2019	5/23/2017	7/26/2017	11/10/2017	2/8/2018	5/10/2018	8/6/2018	10/23/2018	12/21/2018	2/28/2019	5/21/2019
Semi-volatile Organic Compounds (SVOCs)																									
1,4-Dioxane	µg/l	7.2	< 2.0	NA	0.99 J	0.87 J	< 2.0	1.2 J	< 2.0	1.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.88 J	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)																									
1,1-Dichloroethene	µg/l	7.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	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	1.0	**2.2**	< 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
Metals																									
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																									
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																									
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																									
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		Residential Drinking Water Criteria	MW-87S			MW-96S			MW-97S			MW-98S			MW-99S			MW-100S			MW-101S		
Screen Interval (ft. bgs):			4.5-14.5			2.5-12.5			2.5-12.5			2.5-12.5			3-13			3-13			4.5-14.5		
Date:	Unit		12/21/2018	3/1/2019	5/13/2019	12/18/2018	2/27/2019	5/16/2019	12/27/2018	3/6/2019	5/10/2019	12/19/2018	3/6/2019	5/10/2019	12/21/2018	3/7/2019	5/9/2019	12/18/2018	2/27/2019	5/9/2019	12/21/2018	3/6/2019	5/8/2019
Semi-volatile Organic Compounds (SVOCs)																							
1,4-Dioxane	µg/l	7.2	<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	1.0 J	< 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
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	0.94 J	0.57 J	0.89 J	< 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
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
Trichloroethene	µg/l	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	1.0	<1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.42 J	< 1.0	< 1.0	0.43 J	< 1.0	< 1.0	0.28 J	< 1.0	0.22 J	< 1.0	< 1.0	< 1.0	0.58 J	< 1.0
Metals																							
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																							
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																							
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																							
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		Residential Drinking Water Criteria	MW-102			MW-102S			MW-105S			MW-106S			MW-107S			MW-108S			MW-125	MW-125S	MW-129	MW-129S
Screen Interval (ft. bgs):			10-15			2.5-12.5			2.5-12.5			2.5-12.5			2.5-12.5			2.5-12.5			7-12	2-7	10-15	2-7
Date:	Unit		12/19/2018	2/25/2019	5/17/2019	12/19/2018	2/25/2019	5/14/2019	12/26/2018	2/25/2019	5/14/2019	12/19/2018	2/27/2019	5/16/2019	12/26/2018	2/27/2019	5/10/2019	12/26/2018	2/25/2019	5/14/2019	4/18/2019	4/18/2019	4/18/2019	4/18/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	7.2	1.7 J	1.3 J	1.1 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.90 J	NS	0.93 J	< 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	NS	< 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	NS	< 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	NS	< 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	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	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	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/l	1.0	**1.6**	**1.7**	**1.8**	< 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	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																								
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:			MW-131S			MW-132S			MW-133S		MW-134S		MW-135S		MW-136S		MW-137S		MW-138S		MW-139S		MW-140S	
Screen Interval (ft. bgs):			2.5-12.5			2.5-12.5			4-9		5-10		5-10		2-7		2-7		2-7		2-7		2-7	
Date:	Unit	Residential Drinking Water Criteria	12/26/2018	2/26/2019	5/14/2019	12/26/2018	2/26/2019	5/14/2019	2/14/2019	5/23/2019	2/14/2019	5/20/2019	2/14/2019	5/20/2019	2/19/2019	5/22/2019	2/23/2019	5/13/2019	2/19/2019	5/16/2019	2/26/2019	5/9/2019	2/26/2019	5/16/2019
Semi-volatile Organic Compounds (SVOCs)																								
1,4-Dioxane	µg/l	7.2	1.0 J	< 2.0	1.3 J	< 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
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
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
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
Trichloroethene	µg/l	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	1.0	0.98 J	0.69 J	0.85 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	0.91 J	**1.7**	**1.6**	< 1.0	< 1.0	< 1.0	< 1.0
Metals																								
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																								
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																								
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																								
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:		Residential Drinking Water Criteria	MW-141S		MW-142S		MW-186S	MW-187	MW-187S	MW-188S	MW-189	MW-189S	MW-190	MW-190S	MW-191S	MW-192S
Screen Interval (ft. bgs):			3-8		2.5-7.5		2.5-7.5	8.0-13.0	3.0-8.0	3.0-8.0	10.0-15.0	4.5-9.5	9.0-14.0	2.5-7.5	2.5-7.5	2.5-7.5
Date:	Unit		2/27/2019	5/15/2019	2/25/2019	5/23/2019	4/12/2019	4/12/2019	4/12/2019	4/18/2019	4/16/2019	4/16/2019	4/19/2019	4/19/2019	4/22/2019	4/11/2019
Semi-volatile Organic Compounds (SVOCs)																
1,4-Dioxane	µg/l	7.2	< 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	< 2.0	< 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	< 2.0	< 1.0	< 1.0	0.74 J	1.0	2.3	< 1.0
Tetrachloroethene	µg/l	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 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	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	0.57 J	< 1.0
Vinyl chloride	µg/l	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Metals																
Iron, Dissolved	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/l	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/l	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anions																
Nitrate-N	mg/l	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	250	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)																
Carbon, Dissolved	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gases																
Ethane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/l	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Table 4
Off-Site Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:
All results are compared to the MDEQ Part 201 Generic Cleanup Criteria, December 31, 2013.
Bolded Result exceeds residential Drinking Water criteria
< Result not detected above reporting limit.

Footnote:
* Residential Drinking Water Criteria for 1,4-dioxane is derived from the MDEQ Proposed Rule Changes (September 2016) and Emergency Rules (October 27, 2016).
** Groundwater results for Trichloroethene and Vinyl Chloride are compared to the published MDEQ Remediation and Redevelopment Division Target Detection Limit of 1.0 µg/l.

Abbreviations:

EGLE	Michigan Department of Environment, Great Lakes, and Energy
ft. bgs	feet below ground surface
J	estimated result
MDEQ	Michigan Department of Environmental Quality
mg/l	milligrams per liter
NA	not analyzed
NS	no standard / not sampled
µg/l	micrograms per liter

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 5
Soil Vapor Monitoring Point Helium Tracer Test Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Location ID	Sample Depth (ft. bgs)	June 2017		September 2017		November 2017		February 2018		May 2018	
		Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)
SVMP-01S	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-01D	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-02S	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-02D	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-03S	3.5	0.005	0.0075	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-03D	7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-04	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-05	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-06	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-07	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-08	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-09	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-10	3	0.0	0.1475	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS
SVMP-11	3.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-12	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-13	2	0.025	0.475	0.0	0.0	0.0	0.0	NS	NS	NS	NS
SVMP-14	2	0.0225	0.0	0.0	0.0	0.0	0.0	NS	NS	NS	NS
SVMP-15	2	0.245	0.38	0.0	0.0	0.0	0.0	NS	NS	NS	NS
SVMP-16	2	0.0450	0.1725	0.0	0.0	0.0	0.0	NS	NS	NS	NS
SVMP-17	2	0.4675	0.2925	0.0	0.0	0.0	NA	NS	NS	0.0	0.0
SVMP-18	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-19	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NA	NS	NS
SVMP-20	3	0.0	0.085	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-21	2	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS	0.0	0.0
SVMP-22	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS
SVMP-23	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS
SVMP-24	4	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
SVMP-25S	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-25D	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-26	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-27	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-28	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-29	3.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-29	7.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-30	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-31	5.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-32	3	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-32	6	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-33	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-34	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-35	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-36	4	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-37	2.5	0.0	0.0	NS	NS	NS	NS	NS	NS	NS	NS

See Notes on Last Page.

Table 5
Soil Vapor Monitoring Point Helium Tracer Test Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location ID	Sample Depth (ft. bgs)	August 2018		November 2018		March 2019 (*)	June 2019 (*)
		Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Post-Sample (%)	Helium Pre-Sample (%)	Helium Pre-Sample (%)
SVMP-01S	3.5	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-01D	7	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-02S	4.5	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-02D	8.5	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-03S	3.5	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-03D	7	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-04	3.5	0.0	0.175	0.0	0.0	0.0	0.0
SVMP-05	4.5	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-06	4.5	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-07	3.5	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-08	3.5	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-09	4	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-10	3	0.0	0.0	0.0	0.0	NS	NS
SVMP-11	3.5	NS	NS	NS	NS	NS	NS
SVMP-12	3.5	0.0	0.0005	0.0	0.0	0.0	0.0
SVMP-13	2	0.0	0.0	NS	NS	NS	NS
SVMP-14	2	0.0	0.0	NS	NS	0.0	NS
SVMP-15	2	0.0	0.0	NS	NS	NS	NS
SVMP-16	2	0.0	0.0	NS	NS	NS	NS
SVMP-17	2	0.0	0.0	NS	NS	0.0	0.0
SVMP-18	3	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-19	3	0.0	0.0	NS	NS	0.0	NS
SVMP-20	3	0.0	0.0	NS	NS	NS	NS
SVMP-21	2	0.0	0.0	NS	NS	0.0	0.0
SVMP-22	3	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-23	3	0.0	0.0	0.0	0.0	NS	0.0
SVMP-24	4	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-25S	3	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-25D	6	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-26	4	0.0	0.0005	0.0	0.0	0.0	0.0
SVMP-27	4.5	0.0	0.0005	0.0	0.0	0.0	0.0
SVMP-28	3	0.0	0.0005	0.0	0.0	0.0	0.0
SVMP-29	3.5	NS	NS	NS	NS	NS	NS
SVMP-29	7.5	NS	NS	NS	NS	NS	NS
SVMP-30	4	NS	NS	NS	NS	NS	NS
SVMP-31	5.5	NS	NS	NS	NS	NS	NS
SVMP-32	3	NS	NS	NS	NS	NS	NS
SVMP-32	6	NS	NS	NS	NS	NS	NS
SVMP-33	4	NS	NS	NS	NS	NS	NS
SVMP-34	4	NS	NS	NS	NS	NS	NS
SVMP-35	4	NS	NS	NS	NS	NS	NS
SVMP-36	4	NS	NS	NS	NS	NS	NS
SVMP-37	2.5	NS	NS	NS	NS	NS	NS

See Notes on Last Page.

Table 5
Soil Vapor Monitoring Point Helium Tracer Test Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Notes:

Helium tracer test readings collected using a Helium Leak Detector MGD-2002.

Shroud concentrations ranged from 20-40% helium during all sampling events.

As discussed in the 2013 EGLE VI Guidance, a tracer gas can be used to verify that soil gas samples are from the installed point and not from leaks in the sampling train.

No unacceptable helium leak test results were noted during any of the sampling events.

Samples were deemed acceptable, as all exhibited concentrations of helium in purged soil gas less than 10% of the initial shroud concentration of helium, as presented in the 2013 EGLE VI guidance.

SVMP-11 abandoned after the initial sampling event per the adjacent property owner's request.

SVMP-29 through SVMP-37 are located on residential properties, and therefore, were only sampled during the initial sampling event.

SVMP-17 and SVMP-20 were not sampled during the November 2017 sampling event due to saturated screens.

SVMP-13 through SVMP-17, SVMP-20, and SVMP-21 were not sampled during the February 2018 sampling event due to saturated screens.

SVMP-10, SVMP-13 through SVMP-16, SVMP-19, SVMP-22, and SVMP-23 were not sampled during the May 2018 sampling event due to saturated screens.

SVMP-20 not sampled during the May 2018 sampling event due to a blockage in the tubing.

SVMP-13 through SVMP-17, SVMP-19, SVMP-20, and SVMP-21 were not sampled during the November 2018 sampling event due to saturated screens.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, and SVMP-23 were not sampled during the March 2019 sampling event due to saturated screens.

SVMP-10, SVMP-13, SVMP-14, SVMP-15, SVMP-16, SVMP-19, and SVMP-20 were not sampled during the June 2019 sampling event due to saturated screens.

SVMP-26 sample was cancelled due to a high canister vacuum reading of 10.5 Hg during the June 2019 sampling event.

* - Starting in March 2019 only a pre-sampling helium test was completed consistent with the off-site vapor intrusion sampling program.

Abbreviations:

EGLE	Michigan Department of Environment, Great Lakes, and Energy
NS	not sampled
%	percent
SVMP	soil vapor monitoring point
VI	vapor intrusion

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 6
Soil Vapor Monitoring Point Purged Air Parameter Readings
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Location ID	Sample Depth (ft. bgs)	June 2017		September 2017		November 2017		February 2018		May 2018		August 2018		November 2018		March 2019		June 2019	
		CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)	CO_2 (%)	O_2 (%)
SVMP-01S	3.5	1.3	19.7	1.2	19.3	1.7	21.1	1.8	18.5	1.7	17.9	3.2	17.3	1.1	19.9	1.6	19.6	2.0	18.9
SVMP-01D	7	0.9	19.4	1.7	19.2	2.4	20.0	1.9	18.9	1.2	16.2	3.1	16.2	1.6	19.6	1.5	19.5	1.9	18.6
SVMP-02S	4.5	4.8	17.4	0.9	20.1	9.3	7.7	0.1	21.6	6.7	16.1	3.7	17.4	2.3	17.5	3.1	16.6	3.6	17.1
SVMP-02D	8.5	6.7	16.3	1.7	19.3	10.5	5.4	0.0	21.6	7.2	14.5	4.5	16.7	2.8	17.1	3.6	15.4	4.0	16.8
SVMP-03S	3.5	0.3	20.6	0.6	20.4	0.7	21.4	0.0	21.4	0.9	17.2	1.0	19.0	0.4	20.5	0.5	20.7	1.1	19.2
SVMP-03D	7	0.4	21.2	0.8	19.9	0.9	21.1	0.0	21.2	0.7	19.6	1.0	18.8	0.5	20.4	0.4	18.4	1.0	19.1
SVMP-04	3.5	0.6	20.1	1.0	20.0	0.8	19.1	1.6	16.2	0.8	18.4	2.3	19.0	0.6	19.9	0.6	19.5	2.1	18.8
SVMP-05	4.5	0.2	22.0	0.2	20.7	0.5	26.9	1.2	19.6	0.6	20.0	1.0	20.1	2.4	19.1	0.3	21.0	0.4	19.3
SVMP-06	4.5	0.5	20.8	0.9	20.1	0.7	21.0	0.4	20.8	1.0	19.8	3.8	17.6	0.6	20.6	0.5	20.5	1.2	19.3
SVMP-07	3.5	1.2	20.5	0.0	20.8	1.3	19.7	1.0	20.4	2.2	19.9	4.0	18.5	1.3	19.7	0.9	17.6	1.8	18.0
SVMP-08	3.5	2.5	19.8	1.4	19.6	8.9	21.6	0.3	20.8	1.7	17.8	2.6	18.9	1.1	20.3	0.6	20.0	2.8	16.3
SVMP-09	4	0.3	21.2	0.0	20.8	0.7	21.6	0.0	21.0	0.7	20.5	3.2	17.8	0.4	20.4	0.0	20.9	0.6	19.7
SVMP-10	3	0.2	20.1	0.4	19.9	0.5	19.5	0.1	20.9	NS	NS	2.2	18.9	0.6	20.5	NS	NS	NS	NS
SVMP-11	3.5	0.3	21.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-12	3.5	0.2	21.2	1.2	19.9	1.0	19.9	0.0	20.9	0.9	16.5	1.6	18.5	0.6	20.1	0.5	21.2	2.0	18.1
SVMP-13	2	0.6	20.0	1.2	18.6	2.6	11.8	NS	NS	NS	NS	3.8	17.5	NS	NS	NS	NS	NS	NS
SVMP-14	2	0.9	18.5	1.5	19.5	1.4	19.1	NS	NS	NS	NS	4.2	16.9	NS	NS	0.8	18.6	NS	NS
SVMP-15	2	0.8	21.4	0.7	20.3	0.1	20.1	NS	NS	NS	NS	11.2	6.1	NS	NS	NS	NS	NS	NS
SVMP-16	2	0.9	20.8	1.2	19.8	0.3	20.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-17	2	1.3	19.5	4.9	16.8	NS	NS	NS	NS	2.8	16.9	NS	NS	NS	NS	0.5	19.9	5.4	16.3
SVMP-18	3	2.6	18.6	5.2	16.8	4.3	17.6	2.7	16.6	5.5	15.6	6.3	12.4	2.8	16.8	2.8	16.6	5.8	11.8
SVMP-19	3	6.4	14.8	6.4	16.3	7.0	15.0	NS	NS	NS	NS	10.3	10.6	NS	NS	5.3	11.1	NS	NS
SVMP-20	3	6.3	15.7	6.0	16.1	NS	NS	NS	NS	NS	NS	10.3	7.9	NS	NS	NS	NS	NS	NS
SVMP-21	2	2.5	19.8	1.8	19.3	0.8	19.9	NS	NS	8.8	14.0	3.0	19.8	NS	NS	0.9	19.7	5.9	12.1
SVMP-22	3	0.9	20.3	1.8	19.8	1.3	20.2	0.0	21.0	NS	NS	9.2	11.2	1.1	19.6	0.3	20.0	1.6	18.6
SVMP-23	3	1.4	20.2	0.1	15.8	1.1	20.6	NS	NS	NS	NS	9.7	11.1	1.1	19.9	NS	NS	3.3	17.7
SVMP-24	4	2.8	19.4	2.5	18.9	2.6	19.5	2.0	19.2	3.1	17.5	9.6	10.9	3.0	17.8	2.0	19.2	3.7	16.8
SVMP-25S	3	3.2	18.0	4.0	15.5	4.0	18.0	0.2	20.9	2.9	17.4	3.5	17.9	1.9	18.5	1.5	20.2	3.6	16.1
SVMP-25D	6	2.4	18.4	5.4	14.0	4.6	17.4	0.0	21.0	2.1	17.6	4.0	17.2	2.1	18.3	1.6	20.0	3.4	16.2
SVMP-26	4	3.8	12.0	11.4	8.6	12.0	5.6	0.6	20.7	6.1	10.2	15.3	2.2	11.1	8.2	7.3	9.4	8.1	2.4
SVMP-27	4.5	3.8	20.3	1.1	19.2	1.5	20.4	0.1	21.3	1.1	18.4	2.5	17.7	1.2	19.7	1.1	19.3	2.2	17.9
SVMP-28	3	1.8	21.0	3.4	16.7	2.3	16.2	0.1	21.1	2.4	16.6	4.6	11.3	2.4	18.1	1.8	18.3	3.3	15.9
SVMP-29	3.5	0.6	20.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-29	7.5	0.9	20.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-30	4	0.4	20.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-31	5.5	1.2	19.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-32	3	1.6	19.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-32	6	1.3	19.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-33	4	5.7	16.9	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-34	4	0.9	20.3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-35	4	1.1	21.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-36	4	1.4	19.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-37	2.5	7.2	15.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

See Notes on Last Page.

Table 6
Soil Vapor Monitoring Point Purged Air Parameter Readings
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:
Air parameter readings collected directly after each round of sample collection using a GEM 2000.
SVMP-11 abandoned after the initial sampling event per the adjacent property owner's request.
SVMP-29 through SVMP-37 are located on residential properties, and therefore, were only sampled during the initial sampling event.
SVMP-17 and SVMP-20 were not sampled during the November 2017 sampling event due to saturated screens.
SVMP-13 through SVMP-17, SVMP-20, and SVMP-21 were not sampled during the February 2018 sampling event due to saturated screens.
SVMP-10, SVMP-13 through SVMP-16, SVMP-19, SVMP-22, and SVMP-23 were not sampled during the May 2018 sampling event due to saturated screens.
SVMP-20 not sampled during the May 2018 sampling event due to a blockage in the tubing.
SVMP-13 through SVMP-17, SVMP-19, SVMP-20, and SVMP-21 were not sampled during the November 2018 sampling event due to saturated screens.
SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, and SVMP-23 were not sampled during the March 2019 sampling event due to saturated screens.
SVMP-10, SVMP-13, SVMP-14, SVMP-15, SVMP-16, SVMP-19, and SVMP-20 were not sampled during the June 2019 sampling event due to saturated screens.
SVMP-26 sample was cancelled due to a high canister vacuum reading of 10.5 Hg during the June 2019 sampling event.

Abbreviations:

CO_2	carbon dioxide
NS	not sampled
NR	not recorded
O_2	oxygen
SVMP	soil vapor monitoring point

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 7
Off-Site Soil Vapor Monitoring Point Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:	Residential RIASL	SVMP-01S									SVMP-01D									SVMP-02S								
Sample Depth (ft. bgs):		3.5									7									4.5								
Sample Date:		6/8/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/6/2018	3/4/2019	6/25/2019	6/8/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/6/2018	3/4/2019	6/25/2019	6/9/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/21/2019	6/25/2019
VOCs (Method TO-15) µg/m^3																												
1,1-Dichloroethene	7,000	NA	< 5.0	< 4.2	< 4.6	< 4.8	< 4.8	< 4.6	< 4.5	< 4.9	NA	< 4.8	< 4.8	< 4.5	< 5.1	< 4.7	< 4.5	< 4.6	< 5.0	NA	< 5.2	< 4.5	< 8.3	< 4.9	< 5.0	< 4.6	< 4.7	< 5.2
1,4-Dioxane	170	NA	< 18	< 15	< 16	< 18	< 18	< 17	< 16	< 18	NA	< 17	< 17	< 16	< 18	< 17	< 16	< 17	< 18	NA	< 19	< 16	< 30	< 18	< 18	< 17	< 17	< 19
cis-1,2-Dichloroethene	280	NA	< 5.0	< 4.2	< 4.6	< 4.8	< 4.8	< 4.6	< 4.5	< 4.9	NA	< 4.8	< 4.8	< 4.5	< 5.1	< 4.7	< 4.5	< 4.6	< 5.0	NA	< 5.2	< 4.5	< 8.3	< 4.9	< 5.0	< 4.6	< 4.7	< 5.2
Tetrachloroethene	1,400	NA	< 8.5	< 7.1	< 7.8	< 8.3	< 8.3	< 7.9	< 7.7	< 8.4	NA	< 8.2	< 8.2	< 7.6	< 8.7	< 8.1	< 7.7	< 8.0	< 8.5	NA	< 9.0	< 7.8	< 14	< 8.4	< 8.5	< 7.8	< 8.1	< 8.8
trans-1,2-Dichloroethene	2,800	NA	< 5.0	< 4.2	< 4.6	< 4.8	< 4.8	< 4.6	< 4.5	< 4.9	NA	< 4.8	< 4.8	< 4.5	< 5.1	< 4.7	< 4.5	< 4.6	< 5.0	NA	< 5.2	< 4.5	< 8.3	< 4.9	< 5.0	< 4.6	< 4.7	< 5.2
Trichloroethene	67	< 6.2	< 6.8	< 5.6	< 6.2	< 6.6	< 6.6	< 6.3	< 6.1	< 6.6	< 6.2	< 6.5	< 6.5	< 6.0	< 6.9	< 6.4	< 6.1	< 6.3	< 6.8	< 6.0	< 7.1	< 6.2	< 11	< 6.7	< 6.8	< 6.2	< 6.4	< 7.0
Vinyl Chloride	54	< 3.0	< 3.2	< 2.7	< 2.9	< 3.1	< 3.1	< 3.0	< 2.9	< 3.2	< 3.0	< 3.1	< 3.1	< 2.9	< 3.3	< 3.0	< 2.9	< 3.0	< 3.2	< 2.8	< 3.4	< 2.9	< 5.3	< 3.2	< 3.2	< 3.0	< 3.0	< 3.3

Location:	Residential RIASL	SVMP-02D									SVMP-03S									SVMP-03D								
Sample Depth (ft. bgs):		8.5									3.5									7								
Sample Date:		6/9/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/5/2019	6/25/2019	6/12/2017	9/21/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/21/2019	6/25/2019	6/12/2017	9/21/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/21/2019	6/25/2019
VOCs (Method TO-15) µg/m^3																												
1,1-Dichloroethene	7,000	NA	< 5.2	< 4.6	< 8.3	< 5.1	< 4.9	< 4.6	< 4.8	< 5.2	NA	< 4.9	< 4.0	< 4.3	< 5.5	< 4.6	< 4.5	NS	< 5.5	NA	< 4.7	< 4.3	< 4.6	< 5.0	< 4.6	< 4.4	< 4.8	< 5.4
1,4-Dioxane	170	NA	< 19	< 17	< 30	< 18	< 18	< 17	< 17	< 19	NA	< 18	< 15	< 16	< 20	< 17	< 16	NS	< 20	NA	< 17	< 16	< 17	< 18	< 17	< 16	< 18	< 20
cis-1,2-Dichloroethene	280	NA	< 5.2	< 4.6	< 8.3	< 5.1	< 4.9	< 4.6	< 4.8	< 5.2	NA	< 4.9	< 4.0	< 4.3	< 5.5	< 4.6	< 4.5	NS	< 5.5	NA	< 4.7	< 4.3	< 4.6	< 5.0	< 4.6	< 4.4	< 4.8	< 5.4
Tetrachloroethene	1,400	NA	< 9.0	< 7.9	< 14	< 8.7	< 8.4	< 7.9	< 8.1	< 9.0	NA	< 8.3	< 6.9	< 7.3	< 9.4	< 7.8	< 7.7	NS	< 9.4	NA	< 8.1	< 7.4	< 7.9	< 8.5	< 7.8	< 7.5	< 8.3	< 9.3
trans-1,2-Dichloroethene	2,800	NA	< 5.2	< 4.6	< 8.3	< 5.1	< 4.9	< 4.6	< 4.8	< 5.2	NA	< 4.9	< 4.0	< 4.3	< 5.5	< 4.6	< 4.5	NS	< 5.5	NA	< 4.7	< 4.3	< 4.6	< 5.0	< 4.6	< 4.4	< 4.8	< 5.4
Trichloroethene	67	< 6.1	< 7.1	< 6.3	< 11	< 6.9	< 6.6	< 6.3	< 6.4	< 7.1	< 6.3	< 6.6	< 5.5	< 5.8	< 7.4	< 6.2	< 6.1	NS	< 7.4	< 6.8	< 6.4	< 5.8	< 6.3	< 6.7	< 6.2	< 6.0	< 6.6	< 7.4
Vinyl Chloride	54	< 2.9	< 3.4	< 3.0	< 5.3	< 3.3	< 3.2	< 3.0	< 3.1	< 3.4	< 3.0	< 3.1	< 2.6	< 2.8	< 3.5	< 3.0	< 2.9	NS	< 3.5	< 3.2	< 3.0	< 2.8	< 3.0	< 3.2	< 3.0	< 2.8	< 3.1	< 3.5

Location:	Residential RIASL	SVMP-04									SVMP-05									SVMP-06								
Sample Depth (ft. bgs):		3.5									4.5									4.5								
Sample Date:		6/12/2017	9/20/2017	11/20/2017	2/21/2018	5/30/2018	8/23/2018	11/5/2018	3/5/2019	6/25/2019	6/12/2017	9/20/2017	11/20/2017	2/21/2018	5/30/2018	8/23/2018	11/5/2018	3/21/2019	6/25/2019	6/13/2017	9/20/2017	11/20/2017	2/21/2018	5/30/2018	8/23/2018	11/5/2018	3/21/2019	6/24/2019
VOCs (Method TO-15) µg/m^3																												
1,1-Dichloroethene	7,000	NA	< 4.9	< 4.9	< 4.7	< 4.8	< 4.9	< 5.1	< 5.9	< 4.9	NA	< 4.8	< 4.6	< 4.2	< 4.7	< 4.6	< 4.6	< 5.0	< 5.2	NA	< 4.6	< 4.5	< 4.6	< 4.7	< 4.6	< 4.4	< 4.9	< 5.1
1,4-Dioxane	170	NA	< 18	< 18	< 17	< 17	< 18	< 18	< 22	< 18	NA	< 17	< 16	< 15	< 17	< 17	< 16	< 18	< 19	NA	< 17	< 16	< 17	< 17	< 16	< 16	< 18	< 18
cis-1,2-Dichloroethene	280	NA	< 4.9	< 4.9	< 4.7	< 4.8	< 4.9	< 5.1	< 5.9	< 4.9	NA	< 4.8	< 4.6	< 4.2	< 4.7	< 4.6	< 4.6	< 5.0	< 5.2	NA	**8.0**	< 4.5	< 4.6	< 4.7	< 4.6	< 4.4	< 4.9	< 5.1
Tetrachloroethene	1,400	NA	**8.3 J**	< 8.4	< 8.1	< 8.2	< 8.4	< 8.7	< 10	< 8.4	NA	< 8.2	< 7.8	< 7.2	< 8.0	< 7.8	< 7.8	< 8.5	< 9.0	NA	**24**	< 7.7	< 7.8	< 8.1	< 7.8	< 7.6	< 8.4	< 8.8
trans-1,2-Dichloroethene	2,800	NA	< 4.9	< 4.9	< 4.7	< 4.8	< 4.9	< 5.1	< 5.9	< 4.9	NA	< 4.8	< 4.6	< 4.2	< 4.7	< 4.6	< 4.6	< 5.0	< 5.2	NA	< 4.6	< 4.5	< 4.6	< 4.7	< 4.6	< 4.4	< 4.9	< 5.1
Trichloroethene	67	< 6.0	< 6.6	< 6.7	< 6.4	< 6.5	< 6.6	< 6.9	< 8.1	< 6.6	< 6.7	< 6.5	< 6.2	< 5.7	< 6.3	< 6.2	< 6.2	< 6.8	< 7.1	< 6.0	< 6.3	< 6.1	< 6.2	< 6.4	< 6.2	< 6.0	< 6.7	< 6.9
Vinyl Chloride	54	< 2.9	< 3.2	< 3.2	< 3.0	< 3.1	< 3.2	< 3.3	< 3.8	< 3.2	< 3.2	< 3.1	< 2.9	< 2.7	< 3.0	< 3.0	< 2.9	< 3.2	< 3.4	< 2.9	< 3.0	< 2.9	< 3.0	< 3.0	< 2.9	< 2.9	< 3.2	< 3.3

Location:	Residential RIASL	SVMP-07									SVMP-08									SVMP-09								
Sample Depth (ft. bgs):		3.5									3.5									4								
Sample Date:		6/13/2017	9/20/2017	11/20/2017	2/19/2018	5/30/2018	8/23/2018	11/5/2018	3/4/2019	6/24/2019	6/15/2017	9/20/2017	11/20/2017	2/20/2018	5/29/2018	8/23/2018	11/5/2018	3/5/2019	6/24/2019	6/14/2017	9/20/2017	11/20/2017	2/20/2018	5/30/2018	8/23/2018	11/5/2018	3/5/2019	6/24/2019
VOCs (Method TO-15) µg/m^3																												
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.7	< 4.5	< 4.9	< 4.7	< 4.8	< 4.5	< 5.2	NA	< 4.7	< 4.6	< 4.6	< 5.0	< 4.8	< 4.6	< 4.8	< 5.5	NA	< 4.9	< 4.5	< 4.8	< 4.5	< 4.9	< 4.4	< 4.7	< 5.3
1,4-Dioxane	170	NA	< 17	< 17	< 16	< 18	< 17	< 17	< 16	< 19	NA	< 17	< 17	< 17	< 18	< 17	< 17	< 17	< 20	NA	< 18	< 16	< 17	< 16	< 18	< 16	< 17	< 19
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.7	< 4.5	< 4.9	< 4.7	< 4.8	< 4.5	< 5.2	NA	< 4.7	< 4.6	< 4.6	< 5.0	< 4.8	< 4.6	< 4.8	< 5.5	NA	< 4.9	< 4.5	< 4.8	< 4.5	< 4.9	< 4.4	< 4.7	< 5.3
Tetrachloroethene	1,400	NA	< 8.2	< 8.1	< 7.7	< 8.4	< 8.1	< 8.1	< 7.7	< 9.0	NA	< 8.1	< 7.9	< 7.9	< 8.6	< 8.2	< 7.9	< 8.2	< 9.4	NA	< 8.4	< 7.7	< 8.2	< 7.7	< 8.4	< 7.5	< 8.1	< 9.1
trans-1,2-Dichloroethene	2,800	NA	< 4.8	< 4.7	< 4.5	< 4.9	< 4.7	< 4.8	< 4.5	< 5.2	NA	< 4.7	< 4.6	< 4.6	< 5.0	< 4.8	< 4.6	< 4.8	< 5.5	NA	< 4.9	< 4.5	< 4.8	< 4.5	< 4.9	< 4.4	< 4.7	< 5.3
Trichloroethene	67	< 6.3	< 6.5	< 6.4	< 6.1	< 6.7	< 6.4	< 6.4	< 6.1	< 7.1	< 6.5	< 6.4	< 6.2	< 6.3	**11**	< 6.5	< 6.3	< 6.5	< 7.4	**6.9**	< 6.6	< 6.1	< 6.5	< 6.1	< 6.6	< 5.9	< 6.4	< 7.2
Vinyl Chloride	54	< 3.0	< 3.1	< 3.0	< 2.9	< 3.2	< 3.0	< 3.1	< 2.9	< 3.4	< 3.1	< 3.0	< 3.0	< 3.0	< 3.2	< 3.1	< 3.0	< 3.1	< 3.5	< 3.0	< 3.2	< 2.9	< 3.1	< 2.9	< 3.2	< 2.8	< 3.0	< 3.4

See Notes on Last Page.

Table 7
Off-Site Soil Vapor Monitoring Point Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:	Residential RIASL	SVMP-10									SVMP-11	SVMP-12									SVMP-13								
Sample Depth (ft. bgs):		3									3.5	3.5									2								
Sample Date:		6/13/2017	9/20/2017	11/21/2017	2/20/2018	5/31/2018	8/23/2018	11/5/2018	3/5/2019	6/24/2019	6/13/2017	6/13/2017	9/19/2017	11/21/2017	2/20/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019	6/16/2017	9/19/2017	11/21/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/21/2019	6/25/2019
VOCs (Method TO-15) µg/m^3																													
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.4	< 4.7	NS	< 4.9	< 4.7	NS	NS	NA	NA	< 4.8	< 4.7	< 4.7	< 4.8	< 4.7	< 4.8	< 4.8	< 5.0	NA	< 4.6	< 4.6	NS	NS	< 4.8	NS	NS	NS
1,4-Dioxane	170	NA	< 17	< 16	< 17	NS	< 18	< 17	NS	NS	NA	NA	< 17	< 17	< 17	< 18	< 17	< 18	< 17	< 18	NA	< 17	< 16	NS	NS	< 17	NS	NS	NS
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.4	< 4.7	NS	< 4.9	< 4.7	NS	NS	NA	NA	< 4.8	< 4.7	< 4.7	< 4.8	< 4.7	< 4.8	< 4.8	< 5.0	NA	< 4.6	< 4.6	NS	NS	< 4.8	NS	NS	NS
Tetrachloroethene	1,400	NA	< 8.2	< 7.5	< 8.1	NS	< 8.4	< 8.1	NS	NS	NA	NA	< 8.2	< 8.0	< 8.1	< 8.2	< 8.0	< 8.2	< 8.2	< 8.5	NA	< 7.9	< 7.8	NS	NS	< 8.2	NS	NS	NS
trans-1,2-Dichloroethene	2,800	NA	< 4.8	< 4.4	< 4.7	NS	< 4.9	< 4.7	NS	NS	NA	NA	< 4.8	< 4.7	< 4.7	< 4.8	< 4.7	< 4.8	< 4.8	< 5.0	NA	< 4.6	< 4.6	NS	NS	< 4.8	NS	NS	NS
Trichloroethene	67	< 6.7	< 6.5	< 5.9	< 6.4	NS	< 6.6	< 6.4	NS	NS	< 6.3	< 6.4	< 6.5	< 6.3	< 6.4	< 6.5	< 6.4	< 6.5	< 6.5	< 6.8	< 6.6	< 6.3	< 6.2	NS	NS	< 6.5	NS	NS	NS
Vinyl Chloride	54	< 3.2	< 3.1	< 2.8	< 3.0	NS	< 3.2	< 3.0	NS	NS	< 3.0	< 3.0	< 3.1	< 3.0	< 3.0	< 3.1	< 3.0	< 3.1	< 3.1	< 3.2	< 3.2	< 3.0	< 2.9	NS	NS	< 3.1	NS	NS	NS

Location:	Residential RIASL	SVMP-14									SVMP-15									SVMP-16								
Sample Depth (ft. bgs):		2									2									2								
Sample Date:		6/16/2017	9/19/2017	11/21/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/5/2019	6/24/2019	6/16/2017	9/19/2017	11/20/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/21/2019	6/24/2019	6/16/2017	9/19/2017	11/20/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/21/2019	6/25/2019
VOCs (Method TO-15) µg/m^3																												
1,1-Dichloroethene	7,000	NA	< 4.5	< 4.1	NS	NS	< 4.7	NS	< 5.3	NS	NA	< 4.7	< 4.4	NS	NS	< 4.8	NS	NS	NS	NA	< 4.5	< 4.3	NS	NS	< 5.0	NS	NS	NS
1,4-Dioxane	170	NA	< 16	< 15	NS	NS	< 17	NS	< 19	NS	NA	< 17	< 16	NS	NS	< 17	NS	NS	NS	NA	< 16	< 16	NS	NS	< 18	NS	NS	NS
cis-1,2-Dichloroethene	280	NA	< 4.5	< 4.1	NS	NS	< 4.7	NS	< 5.3	NS	NA	< 4.7	< 4.4	NS	NS	< 4.8	NS	NS	NS	NA	< 4.5	< 4.3	NS	NS	< 5.0	NS	NS	NS
Tetrachloroethene	1,400	NA	< 7.8	< 7.0	NS	NS	< 8.1	NS	< 9.0	NS	NA	< 8.1	< 7.6	NS	NS	< 8.2	NS	NS	NS	NA	< 7.8	< 7.4	NS	NS	< 8.5	NS	NS	NS
trans-1,2-Dichloroethene	2,800	NA	< 4.5	< 4.1	NS	NS	< 4.7	NS	< 5.3	NS	NA	< 4.7	< 4.4	NS	NS	< 4.8	NS	NS	NS	NA	< 4.5	< 4.3	NS	NS	< 5.0	NS	NS	NS
Trichloroethene	67	< 6.4	< 6.2	< 5.6	NS	NS	< 6.4	NS	< 7.2	NS	< 6.3	< 6.4	< 6.0	NS	NS	< 6.5	NS	NS	NS	< 6.4	< 6.2	< 5.9	NS	NS	< 6.8	NS	NS	NS
Vinyl Chloride	54	< 3.0	< 2.9	< 2.6	NS	NS	< 3.0	NS	< 3.4	NS	< 3.0	< 3.0	< 2.9	NS	NS	< 3.1	NS	NS	NS	< 3.0	< 2.9	< 2.8	NS	NS	< 3.2	NS	NS	NS

Location:	Residential RIASL	SVMP-17									SVMP-18									SVMP-19								
Sample Depth (ft. bgs):		2									3									3								
Sample Date:		6/16/2017	9/19/2017	11/20/2017	2/19/2018	5/30/2018	8/24/2018	11/7/2018	3/5/2019	6/24/2019	6/16/2017	9/18/2017	11/17/2017	2/20/2018	5/30/2018	8/22/2018	11/7/2018	3/5/2019	6/25/2019	6/16/2017	9/18/2017	11/17/2017	2/20/2018	5/31/2018	8/22/2018	11/7/2018	3/5/2019	6/25/2019
VOCs (Method TO-15) µg/m^3																												
1,1-Dichloroethene	7,000	NA	< 4.8	NS	NS	< 4.8	< 4.9	NS	< 4.9	< 5.1	NA	< 4.6	< 4.3	< 4.5	< 4.7	< 5.1	< 4.6	< 5.6	< 5.2	NA	< 5.1	< 4.3	< 4.1	NS	< 4.5	NS	< 4.8	NS
1,4-Dioxane	170	NA	< 17	NS	NS	< 17	< 18	NS	< 18	< 18	NA	< 17	< 16	< 16	< 17	< 16	< 16	< 20	< 19	NA	< 18	< 16	< 15	NS	< 16	NS	< 18	NS
cis-1,2-Dichloroethene	280	NA	< 4.8	NS	NS	< 4.8	< 4.9	NS	< 4.9	< 5.1	NA	< 4.6	< 4.3	< 4.5	< 4.7	< 5.1	< 4.6	< 5.6	< 5.2	NA	< 5.1	< 4.3	< 4.1	NS	< 4.5	NS	< 4.8	NS
Tetrachloroethene	1,400	NA	< 8.2	NS	NS	< 8.1	< 8.4	NS	< 8.3	< 8.8	NA	< 7.9	< 7.3	< 7.8	< 8.1	< 8.8	< 7.8	< 9.6	< 9.0	NA	< 8.8	< 7.4	< 7.1	NS	< 7.7	NS	< 8.3	NS
trans-1,2-Dichloroethene	2,800	NA	< 4.8	NS	NS	< 4.8	< 4.9	NS	< 4.9	< 5.1	NA	< 4.6	< 4.3	< 4.5	< 4.7	< 5.1	< 4.6	< 5.6	< 5.2	NA	< 5.1	< 4.3	< 4.1	NS	< 4.5	NS	< 4.8	NS
Trichloroethene	67	**18**	**22**	NS	NS	< 6.4	< 6.6	NS	< 6.6	< 6.9	< 6.6	< 6.3	< 5.8	< 6.2	< 6.4	< 6.9	< 6.2	< 7.6	< 7.1	< 6.4	< 6.9	< 5.9	< 5.6	NS	< 6.1	NS	< 6.6	NS
Vinyl Chloride	54	< 3.0	< 3.1	NS	NS	< 3.1	< 3.2	NS	< 3.1	< 3.3	< 3.2	< 3.0	< 2.8	< 2.9	< 3.0	< 3.3	< 2.9	< 3.6	< 3.4	< 3.0	< 3.3	< 2.8	< 2.7	NS	< 2.9	NS	< 3.1	NS

Location:	Residential RIASL	SVMP-20									SVMP-21									SVMP-22								
Sample Depth (ft. bgs):		3									2									3								
Sample Date:		6/19/2017	9/19/2017	11/20/2017	2/19/2018	5/31/2018	8/22/2018	11/7/2018	3/5/2019	6/25/2019	6/19/2017	9/19/2017	11/20/2017	2/19/2018	5/30/2018	8/24/2018	11/7/2018	3/5/2019	6/25/2019	6/19/2017	9/18/2017	11/17/2017	2/20/2018	5/31/2018	8/21/2018	11/5/2018	3/5/2019	6/25/2019
VOCs (Method TO-15) µg/m^3																												
1,1-Dichloroethene	7,000	NA	< 4.8	NS	NS	NS	< 4.7	NS	NS	NS	NA	< 4.6	< 4.6	NS	< 4.8	< 4.8	NS	< 5.2	< 5.0	NA	< 4.8	< 4.9	< 4.7	NS	< 4.7	< 4.7	< 4.8	< 4.9
1,4-Dioxane	170	NA	< 17	NS	NS	NS	< 17	NS	NS	NS	NA	< 17	< 17	NS	< 18	< 17	NS	< 19	< 18	NA	< 17	< 18	< 17	NS	< 17	< 17	< 18	< 18
cis-1,2-Dichloroethene	280	NA	< 4.8	NS	NS	NS	< 4.7	NS	NS	NS	NA	< 4.6	< 4.6	NS	< 4.8	< 4.8	NS	< 5.2	< 5.0	NA	< 4.8	< 4.9	< 4.7	NS	< 4.7	< 4.7	< 4.8	< 4.9
Tetrachloroethene	1,400	NA	< 8.2	NS	NS	NS	< 8.0	NS	NS	NS	NA	< 7.9	< 7.9	NS	< 8.3	< 8.2	NS	< 8.8	< 8.5	NA	< 8.2	< 8.4	< 8.1	NS	< 8.0	< 8.1	< 8.3	< 8.4
trans-1,2-Dichloroethene	2,800	NA	< 4.8	NS	NS	NS	< 4.7	NS	NS	NS	NA	< 4.6	< 4.6	NS	< 4.8	< 4.8	NS	< 5.2	< 5.0	NA	< 4.8	< 4.9	< 4.7	NS	< 4.7	< 4.7	< 4.8	< 4.9
Trichloroethene	67	< 5.8	< 6.5	NS	NS	NS	< 6.3	NS	NS	NS	< 6.2	< 6.3	< 6.2	NS	< 6.6	< 6.5	NS	< 7.0	< 6.8	< 6.4	< 6.5	< 6.7	< 6.4	NS	< 6.3	< 6.4	< 6.6	< 6.6
Vinyl Chloride	54	< 2.7	< 3.1	NS	NS	NS	< 3.0	NS	NS	NS	< 3.0	< 3.0	< 3.0	NS	< 3.1	< 3.1	NS	< 3.3	< 3.2	< 3.1	< 3.1	< 3.2	< 3.0	NS	< 3.0	< 3.0	< 3.1	< 3.2

See Notes on Last Page.

Table 7
Off-Site Soil Vapor Monitoring Point Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location:	Residential RIASL	SVMP-23									SVMP-24									SVMP-25S								
Sample Depth (ft. bgs):		3									4									3								
Sample Date:		6/19/2017	9/18/2017	11/17/2017	2/20/2018	5/31/2018	8/22/2018	11/5/2018	3/21/2019	6/25/2019	6/19/2017	9/18/2017	11/17/2017	2/21/2018	5/30/2018	8/22/2018	11/5/2018	3/21/2019	6/25/2019	6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019
VOCs (Method TO-15) µg/m^3																												
1,1-Dichloroethene	7,000	NA	< 4.6	< 4.3	< 4.2	NS	< 4.6	< 4.5	NS	< 4.5	NA	< 4.6	< 4.4	< 4.7	< 4.6	< 4.7	< 4.5	< 4.8	< 4.7	NA	< 4.7	< 4.5	< 4.4	< 5.0	< 5.0	< 4.6	< 5.0	< 5.1
1,4-Dioxane	170	NA	< 17	< 16	< 15	NS	< 17	< 16	NS	< 16	NA	< 17	< 16	< 17	< 17	< 17	< 16	< 18	< 17	NA	< 17	< 16	< 16	< 18	< 18	< 17	< 18	< 18
cis-1,2-Dichloroethene	280	NA	< 4.6	< 4.3	< 4.2	NS	< 4.6	< 4.5	NS	< 4.5	NA	< 4.6	< 4.4	< 4.7	< 4.6	< 4.7	< 4.5	< 4.8	< 4.7	NA	< 4.7	< 4.5	< 4.4	< 5.0	< 5.0	< 4.6	< 5.0	< 5.1
Tetrachloroethene	1,400	NA	< 7.9	< 7.4	< 7.2	NS	< 7.9	< 7.7	NS	< 7.8	NA	< 7.9	< 7.5	< 8.1	< 7.9	< 8.1	< 7.8	< 8.2	< 8.1	NA	< 8.1	< 7.7	< 7.6	< 8.5	< 8.5	**1.6 J**	< 8.5	**4.1 J**
trans-1,2-Dichloroethene	2,800	NA	< 4.6	< 4.3	< 4.2	NS	< 4.6	< 4.5	NS	< 4.5	NA	< 4.6	< 4.4	< 4.7	< 4.6	< 4.7	< 4.5	< 4.8	< 4.7	NA	< 4.7	< 4.5	< 4.4	< 5.0	< 5.0	< 4.6	< 5.0	< 5.1
Trichloroethene	67	< 6.4	< 6.3	< 5.8	< 5.7	NS	< 6.3	< 6.1	NS	< 6.2	< 6.2	< 6.3	< 5.9	< 6.4	< 6.3	**6.9**	< 6.2	< 6.5	< 6.4	< 6.2	< 6.4	< 6.1	< 6.0	< 6.7	< 6.7	< 6.2	< 6.7	**1.3 J**
Vinyl Chloride	54	< 3.1	< 3.0	< 2.8	< 2.7	NS	< 3.0	< 2.9	NS	< 2.9	< 3.0	< 3.0	< 2.8	< 3.0	< 3.0	< 3.0	< 2.9	< 3.1	< 3.0	< 3.0	< 3.0	< 2.9	< 2.9	< 3.2	< 3.2	< 3.0	< 3.2	< 3.3

Location:	Residential RIASL	SVMP-25D									SVMP-26									SVMP-27								
Sample Depth (ft. bgs):		6									4									4.5								
Sample Date:		6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019	6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019	6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019
VOCs (Method TO-15) µg/m^3																												
1,1-Dichloroethene	7,000	NA	< 4.4	< 4.7	< 4.4	< 5.1	< 4.7	< 4.7	< 5.2	< 4.9	NA	< 4.9	< 4.4	< 4.4	< 4.9	< 4.6	< 4.9	< 5.0	NA	NA	< 4.4	< 4.4	< 4.4	< 4.9	< 5.0	< 4.5	< 5.0	< 4.9
1,4-Dioxane	170	NA	< 16	< 17	< 16	< 19	< 17	< 17	< 19	< 18	NA	< 18	< 16	< 16	< 18	< 17	< 18	< 18	NA	NA	< 16	< 16	< 16	< 18	< 18	< 16	< 18	< 18
cis-1,2-Dichloroethene	280	NA	< 4.4	< 4.7	< 4.4	< 5.1	< 4.7	< 4.7	< 5.2	< 4.9	NA	< 4.9	< 4.4	< 4.4	< 4.9	**14**	< 4.9	< 5.0	NA	NA	**11**	< 4.4	< 4.4	< 4.9	< 5.0	< 4.5	< 5.0	< 4.9
Tetrachloroethene	1,400	NA	**12**	< 8.1	< 7.6	< 8.8	< 8.1	**2.5 J**	< 8.8	**1.4 J**	NA	< 8.4	< 7.6	< 7.5	< 8.4	< 8.0	< 8.4	< 8.5	NA	NA	< 7.6	< 7.5	< 7.6	< 8.4	< 8.5	< 7.6	< 8.5	< 8.4
trans-1,2-Dichloroethene	2,800	NA	< 4.4	< 4.7	< 4.4	< 5.1	< 4.7	< 4.7	< 5.2	< 4.9	NA	< 4.9	< 4.4	< 4.4	< 4.9	< 4.6	< 4.9	< 5.0	NA	NA	< 4.4	< 4.4	< 4.4	< 4.9	< 5.0	< 4.5	< 5.0	< 4.9
Trichloroethene	67	< 6.4	< 6.0	< 6.4	< 6.0	< 7.0	< 6.4	< 6.4	< 7.0	< 6.6	< 6.2	< 6.6	< 6.0	< 5.9	< 6.7	**24**	< 6.7	< 6.8	NA	< 6.2	**7.2**	< 5.9	< 6.0	< 6.7	< 6.7	< 6.0	< 6.7	< 6.6
Vinyl Chloride	54	< 3.0	< 2.9	< 3.0	< 2.9	< 3.3	< 3.0	< 3.0	< 3.3	< 3.2	< 3.0	< 3.2	< 2.9	< 2.8	< 3.2	< 3.0	< 3.2	< 3.2	NA	< 3.0	< 2.9	< 2.8	< 2.9	< 3.2	< 3.2	< 2.9	< 3.2	< 3.2

Location:	Residential RIASL	SVMP-28									SVMP-29		SVMP-30	SVMP-31	SVMP-32		SVMP-33	SVMP-34	SVMP-35	SVMP-36	SVMP-37
Sample Depth (ft. bgs):		3									3.5	7.5	4	5.5	3	6	4	4	4	4	2.5
Sample Date:		6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019	6/14/2017	6/14/2017	6/14/2017	6/14/2017	6/15/2017	6/15/2017	6/15/2017	6/15/2017	6/15/2017	6/16/2017	6/16/2017
VOCs (Method TO-15) µg/m^3																					
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.6	< 4.3	< 5.2	< 4.7	< 4.7	< 5.0	< 5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	170	NA	< 17	< 17	< 16	< 19	< 17	< 17	< 18	< 18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.6	< 4.3	< 5.2	< 4.7	< 4.7	< 5.0	< 5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1,400	NA	**25**	< 7.9	< 7.3	< 8.9	**8.9**	< 8.1	< 8.5	**1.3 J**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	2,800	NA	< 4.8	< 4.6	< 4.3	< 5.2	< 4.7	< 4.7	< 5.0	< 5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	67	< 6.1	< 6.5	< 6.3	< 5.8	< 7.1	< 6.3	< 6.4	< 6.7	< 6.9	< 6.3	< 6.0	**31**	< 6.1	< 6.4	< 6.5	< 6.5	< 6.3	< 6.9	< 6.2	< 6.2
Vinyl Chloride	54	< 2.9	< 3.1	< 3.0	< 2.8	< 3.4	< 3.0	< 3.0	< 3.2	< 3.3	< 3.0	< 2.8	< 2.9	< 2.9	< 3.0	< 3.1	< 3.1	< 3.0	< 3.3	< 2.9	< 3.0

See Notes on Last Page.

Table 7
Off-Site Soil Vapor Monitoring Point Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:

The residential RIASLs apply to a residential structure with a basement.
SVMP-11 abandoned after the initial sampling event per the adjacent property owner's request.
SVMP-29 through SVMP-37 are located on residential properties, and therefore, were only sampled during the initial sampling event.
SVMP-17 and SVMP-20 were not sampled during the November 2017 sampling event due to saturated screens.
SVMP-13 through SVMP-17, SVMP-20, and SVMP-21 were not sampled during the February 2018 sampling event due to saturated screens.
SVMP-10, SVMP-13 through SVMP-16, SVMP-19, SVMP-22, and SVMP-23 were not sampled during the May 2018 sampling event due to saturated screens.
SVMP-20 was not sampled during the May 2018 sampling event due to a blockage in the tubing.
SVMP-13 through SVMP-17, and SVMP-19 through SVMP-21 were not sampled during the November 2018 sampling event due to saturated screens.
SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, and SVMP-23 were not sampled during the March 2019 sampling event due to saturated screens.
SVMP-03S was not sampled during the March 2019 sampling event due to technical difficulties with the canister.
SVMP-10, SVMP-13, SVMP-14, SVMP-15, SVMP-16, SVMP-19, and SVMP-20 were not sampled during the June 2019 sampling event due to saturated screens.
SVMP-26 sample was cancelled due to a high canister vacuum reading of 10.5 Hg during the June 2019 sampling event.

Bold Concentration was detected above reporting limit.

Abbreviations:

<	denotes not detected above reporting limit
µg/m^3	micrograms per cubic meter
ft. bgs	feet below ground surface
J	reported value is estimated
NA	not analyzed
NS	not sampled
RIASL	recommended interim action screening levels
SVMP	soil vapor monitoring point
VOC	volatile organic compound

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Table 8
Hydraulic Control System Monthly Discharge Volumes
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

ARCADIS Design & Consultancy for natural and built assets

Date	Approximate Volume of Treated Water Discharged ¥ (Gallons)	Date	Approximate Volume of Treated Water Discharged ¥ (Gallons)	Date	Approximate Volume of Treated Water Discharged ¥ (Gallons)
4/1/2019[Ω]	46,595	5/1/2019	53,958	6/1/2019[S]	13,071
4/2/2019[*]	46,896	5/2/2019	51,830	6/2/2019[S]	11,257
4/3/2019	46,014	5/3/2019[ΩS]	49,763	6/3/2019[ΩS]	24,417
4/4/2019[S]	33,289	5/4/2019	56,693	6/4/2019	49,575
4/5/2019[ΩS]	14,481	5/5/2019	55,848	6/5/2019[*]	55,217
4/6/2019[S]	21,651	5/6/2019[Ω]	59,735	6/6/2019[S]	59,197
4/7/2019[S]	0	5/7/2019	66,541	6/7/2019[ΩS]	36,284
4/8/2019[ΩS]	18,302	5/8/2019[*]	65,112	6/8/2019	68,658
4/9/2019[S]	185	5/9/2019	63,139	6/9/2019	67,835
4/10/2019[S]	20,436	5/10/2019[ΩS]	61,057	6/10/2019[Ω]	65,458
4/11/2019[S]	31,451	5/11/2019	64,632	6/11/2019	65,094
4/12/2019	53,904	5/12/2019	63,523	6/12/2019	64,062
4/13/2019	53,205	5/13/2019[ΩS]	55,783	6/13/2019	62,595
4/14/2019	53,023	5/14/2019[S]	30,160	6/14/2019	62,959
4/15/2019[ΩS]	43,053	5/15/2019[S]	0	6/15/2019	62,519
4/16/2019	60,739	5/16/2019[S]	13,336	6/16/2019	61,223
4/17/2019[S]	33,483	5/17/2019[Ω]	60,989	6/17/2019[Ω]	60,331
4/18/2019	54,096	5/18/2019	60,431	6/18/2019	60,171
4/19/2019[ΩS]	38,175	5/19/2019	59,550	6/19/2019	59,079
4/20/2019	62,330	5/20/2019[ΩS]	57,212	6/20/2019	58,081
4/21/2019[S]	17,778	5/21/2019	59,203	6/21/2019[Ω]	51,449
4/22/2019[ΩSU]	19,492	5/22/2019	56,433	6/22/2019	59,883
4/23/2019	52,749	5/23/2019	56,089	6/23/2019	59,326
4/24/2019	50,589	5/24/2019[Ω]	54,827	6/24/2019[ΩS]	36,674
4/25/2019[S]	44,454	5/25/2019	57,906	6/25/2019	58,931
4/26/2019[S]	44,652	5/26/2019	56,038	6/26/2019[S]	59,029
4/27/2019	49,983	5/27/2019[U]	54,431	6/27/2019[S]	36,581
4/28/2019	54,224	5/28/2019[Ω]	55,838	6/28/2019[Ω]	57,552
4/29/2019[ΩS]	53,734	5/29/2019	68,585	6/29/2019	64,076
4/30/2019	56,048	5/30/2019	68,497	6/30/2019	63,180
--	--	5/31/2019[ΩS]	66,175	--	--
Total volume discharged during April 2019	**1,175,011**	**Total volume discharged during May 2019**	**1,703,314**	**Total volume discharged during June 2019**	**1,613,764**

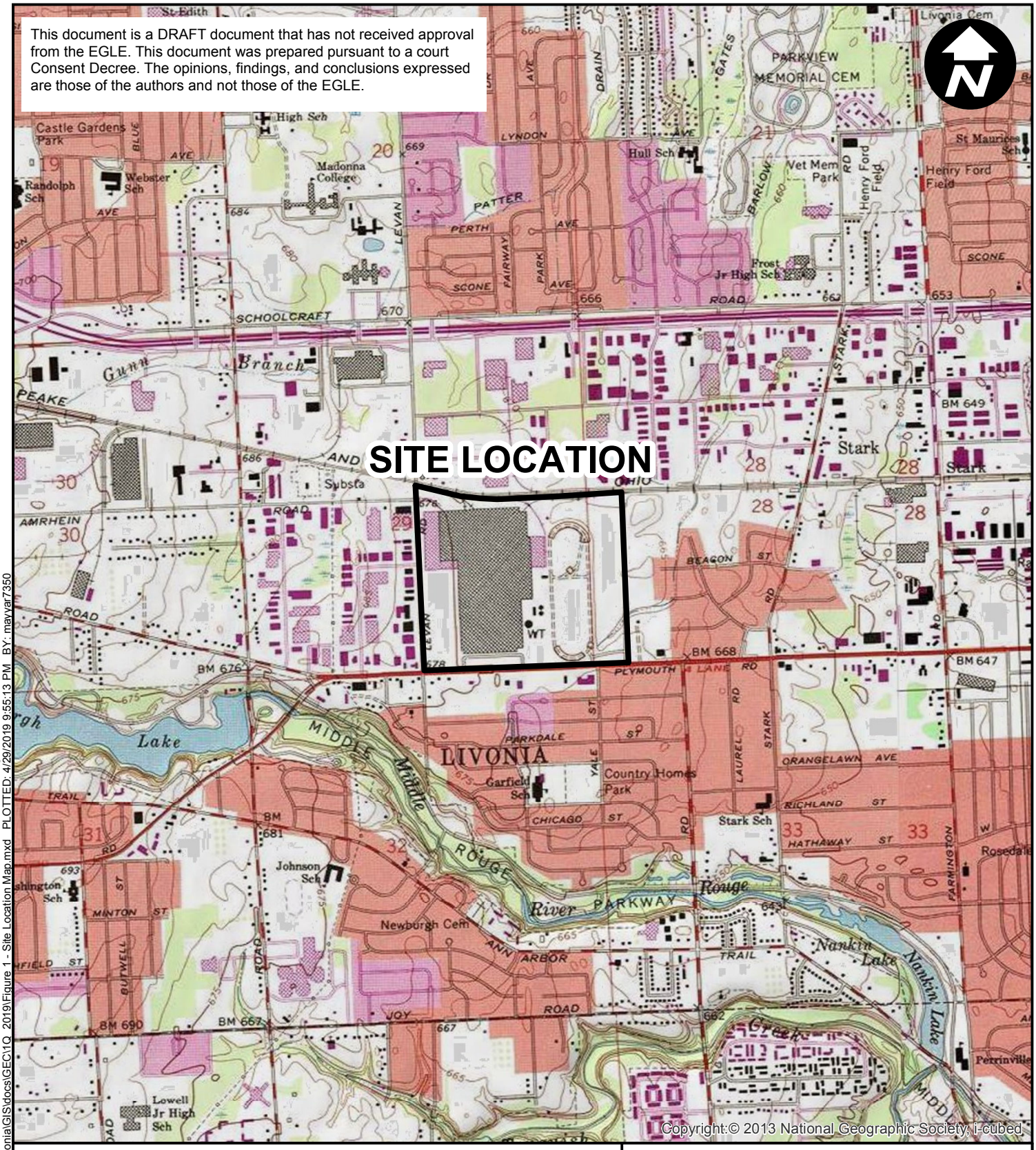
Notes:
Treated groundwater discharge volume readings are recorded daily.

Footnotes:
¥ Volume of treated groundwater discharged from the hydraulic control system is based on a totalizer flow meter installed on the effluent discharge pipe inside the system building.
* Monthly treated groundwater discharge compliance sample collected as required by the Wastewater Discharge Permit Addendum #1 (Permit No.: 006-27510-IU).
Ω Hydraulic control system inspection visit.
U System offline to perform upgrades.
S System shut down.

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

FIGURES

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.





0 2,000 4,000

SCALE IN FEET

NOTES:

MEGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

SOURCE:

USGS 7.5 MINUTE TOPOGRAPHIC MAP
NORTHVILLE AND WAYNE QUADRANGLES

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects\ ENV\NovBrighton MI\Ford\Livonia\GIS\docs\GEC\1Q 2019\Figure 1 - Site Location Map.mxd PLOTTED: 4/29/2019 9:55:13 PM BY: mayvar7350

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

ON-SITE AREA

OFF-SITE AREA

LIVONIA TRANSMISSION PLANT

TEST TRACK

ATNPC BUILDING

SSDS Building

HCS Building

VERONICA AVE

GLENDALE ST

AMRHEIN RD

LEVAN RD

PLYMOUTH RD

ROSATI AVE

CONCORD ST

CAPITOL ST

BEACON ST

STARK RD

WADSWORTH ST

STANDISH ST

BELDEN CT

PRISCILLA LN

YALE ST

YALE AVE

LAUREL ST

PARKDALE AVE

LEGEND

- MONITORING WELL
- TEST WELL
- VAULT
- SUCTION PITS
- PIEZOMETER
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING
- SSDS CONVEYANCE PIPING
- FORD PROPERTY BOUNDARY
- COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY
- AREA OF CONCERN
- ESD-4 CARRIER PIPE
- HCS ELECTRICAL LINE
- EDC DISCHARGE LINE
- HCS DISCHARGE LINE

NOTES:

EDC = EASTERN DIVERSION CHAMBER

ATNPC = AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

0 400 800

SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE LAYOUT

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001454.0007 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MIFordLivoniaGIS\docs\2019-07\Figure 2 - Site Layout On-site and Off-site MW 07252019.mxd PLOTTED: 7/25/2019 1:02:13 PM BY: msmiller

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
Z:\GISProjects_ENV\NoviBrighton_MIFord\Livonia\GIS\docs\GEC\2Q_2019\GWE_DatapostQ2_OnsiteOffsite.June2019.mxd PLOTTED: 7/22/2019 11:12:28 AM BY: msmiller

LEGEND

- OFFSITE MONITORING WELL
- ONSITE MONITORING WELLS
- PIEZOMETER
- ESD VAULT LOCATIONS
- GROUNDWATER ELEVATION CONTOUR (DASH WHERE INFERRED)
- HYDRAULIC CONTROL SYSTEM PATH LINE
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- FORD PROPERTY BOUNDARY
- PROPERTY BOUNDARY
- * WELL NOT GAUGED
- *A WELL NOT GAUGED - ACCESS ISSUES
- *E WELL GAUGED BUT NOT USED IN CONTOUR CALCULATIONS - SUSPECTED ERROR DURING GAUGING
- APPARENT GROUNDWATER FLOW DIRECTION

NOTES:
1. WHERE NESTED WELLS ARE PRESENT, THE SHALLOW WELL IS USED FOR CONTOURING
2. GROUNDWATER ELEVATIONS MEASURED IN ON JUNE 14,2019
3. ALL ELEVATIONS ARE REFERENCED TO A MEAN SEA LEVEL DATUM AND ARE IN UNITS OF FEET ABOVE SEA LEVEL
4. * MONITORING WELL GAUGING DATA NOT USED IN CONTOUR CALCULATIONS DUE TO POSSIBLE ERROR IN GAUGING
5. HDPE - HIGH DENSITY POLYETHYLENE
6. NA = ALL OF THE MOST RECENT GAUGING DATA IS SHOWN, AND THAT ANY MISSING GWES ARE THE RESULT OF ACCESS ISSUES OR THAT THOSE WELLS COULD NOT BE LOCATED.

0 400 800
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE-WIDE GROUNDWATER ELEVATION CONTOUR MAP UNDER PUMPING CONDITIONS JUNE 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-15-59D (94-99 FT)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-124 (5-10 FT)
4/23/2019: 1.7 µg/L
6/13/2019: 1.8 µg/L

MW-26 (4.5-14.5 FT)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-114 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-27

LMW-15-07

MW-113 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-120 (7-12 FT)
4/23/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-28 (2-12 FT)
8/13/2018: 0.86 J µg/L
10/31/2018: 0.51 J µg/L
2/26/2019: 0.24 J µg/L
6/11/2019: 0.22 J µg/L

MW-56 (16-21 FT)
8/13/2018: 0.24 J µg/L
10/31/2018: 0.43 J µg/L
2/27/2019: 0.26 J µg/L
6/11/2019: 0.27 J µg/L

MW-55D (19-24 FT)
6/11/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: 0.19 J µg/L
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-54S (4.5-9.5 FT)
4/29/2019: 0.26 J µg/L
6/10/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-122

MW-53 (16-21 FT)
8/13/2018: ND (< 1.0 J µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-58 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-57 (17-22 FT)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

VAULT V-ESD-1

MW-52 (15-20 FT)
8/10/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

TW-16-04 (9-19 FT)
8/8/2018: 21 µg/L
10/30/2018: 20 µg/L
2/25/2019: 14 µg/L
6/11/2019: 14 µg/L

TW-16-03 (9-19 FT)
8/8/2018: 36 µg/L
10/30/2018: 42 µg/L
2/25/2019: 33 µg/L
6/11/2019: 14 µg/L

MW-50 (16-21 FT)
8/6/2018: 17 µg/L
10/24/2018: 16 µg/L
2/27/2019: 20 µg/L
6/12/2019: 9.4 µg/L

MW-62 (16.3-21.3 FT)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: 0.23 J µg/L
2/27/2019: 0.33 J µg/L
6/12/2019: 0.31 J µg/L

MW-43 (17-22 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

LMW-15-06

LMW-15-08

LMW-15-10

ESD-1

MW-63 (7-12 FT)
8/6/2018: 3.3 µg/L
10/24/2018: 2.2 µg/L
2/28/2019: 1.8 µg/L
6/12/2019: 2.9 µg/L

MW-29 (5-15 FT)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: 0.20 J µg/L
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
8/8/2018: 11 µg/L
10/30/2018: 11 µg/L
2/25/2019: 1.9 µg/L
6/11/2019: ND (< 1.0 µg/L)

MW-65 (16-21 FT)
8/8/2018: 6.2 µg/L
10/30/2018: 7.0 µg/L
2/28/2019: 5.9 µg/L
6/12/2019: 4.9 µg/L

VAULT V-ESD-2

MW-35 (19.5-24.5 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

LMW-15-09

MW-51 (15-20 FT)
8/6/2018: 0.37 J µg/L
10/30/2018: 0.33 J µg/L
3/1/2019: 0.22 J µg/L
6/12/2019: 0.16 J µg/L

MW-66 (15-20 FT)
8/8/2018: ND (< 1.0 µg/L)
11/2/2018: 0.19 J µg/L
3/4/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-64 (15-20 FT)
8/13/2018: 0.29 J µg/L
11/5/2018: 0.32 J µg/L
2/28/2019: 0.23 J µg/L
6/11/2019: 0.25 J µg/L

MW-42 (16-21 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

ESD-2

MW-48 (17-22 FT)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-15-61D (88-93 FT)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-44 (16-21 FT)
8/13/2018: ND (< 20 µg/L)
10/30/2018: ND (< 20 µg/L)
2/25/2019: ND (< 20 µg/L)
6/11/2019: ND (< 20 µg/L)

MW-47 (16-21 FT)
8/9/2018: 55 µg/L
10/25/2018: 48 µg/L
2/28/2019: 32 µg/L
6/12/2019: 25 µg/L

LMW-15-02

MW-19 (15-20 FT)
8/10/2018: 1.0 µg/L
10/26/2018: 1.6 µg/L
2/28/2019: 1.3 µg/L
6/12/2019: 0.65 J µg/L

VAULT V-ESD-3

MW-67 (9-14 FT)
8/13/2018: 4.5 µg/L
10/25/2018: 5.6 µg/L
2/28/2019: 5.6 µg/L
6/13/2019: ND (< 3.3 µg/L)

MW-34 (16.5-21.5 FT)
8/10/2018: 0.33 J µg/L
11/1/2018: 0.44 J µg/L
3/2/2019: 0.32 J µg/L
6/15/2019: ND (< 1.0 µg/L)

MW-3 (14-19 FT)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: 0.23 J µg/L

MW-22 (16.5-21.5 FT)
8/6/2018: 310 µg/L
10/30/2018: 180 J µg/L
2/25/2019: 190 µg/L
6/10/2019: 120 J µg/L

MW-46 (16-21 FT)
8/9/2018: 11 µg/L
11/2/2018: 4.6 µg/L
2/26/2019: 1.4 µg/L
6/11/2019: 4.0 µg/L

MW-41 (16-21 FT)
8/10/2018: 2.5 µg/L
11/1/2018: 2.9 µg/L
3/2/2019: 3.1 µg/L
6/15/2019: 2.0 µg/L

LMW-15-05

LMW-15-03

MW-68 (15-20 FT)
8/9/2018: 13 µg/L
10/25/2018: 17 µg/L
2/27/2019: 31 µg/L
6/12/2019: 31 µg/L

MW-70 (15-20 FT)
8/9/2018: 200 µg/L
11/2/2018: 250 µg/L
2/26/2019: 290 µg/L
6/11/2019: 150 µg/L

ESD-3

MW-10 (16.5-21.5 FT)
8/9/2018: ND (< 140 µg/L)
11/7/2018: ND (< 250 µg/L)
3/1/2019: ND (< 100 µg/L)
6/11/2019: ND (< 100 µg/L)

SSDS Location

MW-21 (13.5-18.5 FT)
8/14/2018: 26,000 µg/L
10/26/2018: 40,000 µg/L
2/26/2019: 25,000 µg/L
6/13/2019: 13,000 J µg/L

VAULT V-ESD-4

MW-30 (19-24 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-5 (15.5-20.5 FT)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: 0.39 J µg/L
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

LEVAN RD

MW-49 (12.5-17.5 FT)
8/14/2018: 15,000 µg/L
10/30/2018: 22,000 µg/L
2/27/2019: 37,000 µg/L
6/11/2019: 19,000 µg/L

TW-16-02 (12-17 FT)
8/6/2018: 4,100 µg/L
10/30/2018: 6,900 µg/L
2/26/2019: 7,700 µg/L
6/10/2019: 3,000 µg/L

MW-45 (15-20 FT)
8/9/2018: 1,000 µg/L
11/2/2018: 640 µg/L
2/26/2019: 340 µg/L
6/11/2019: 310 µg/L

MW-31 (17-22 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

LMW-15-04

MW-2 (15.5-20.5 FT)
8/10/2018: 2,300 µg/L
10/26/2018: 1,900 µg/L
3/1/2019: 2,600 µg/L
6/11/2019: 3,400 µg/L

MW-4 (15.5-20.5 FT)
8/7/2018: 22,000 µg/L
10/26/2018: 24,000 µg/L
3/1/2019: 21,000 µg/L
6/11/2019: 6,400 µg/L

MW-69 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/28/2019: 0.19 J µg/L
6/12/2019: 0.23 J µg/L

MW-25 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-18 (13-18 FT)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-23 (15-20 FT)
8/6/2018: 43,000 µg/L
10/30/2018: 66,000 µg/L
6/10/2019: 23,000 µg/L

HCS Location

MW-71 (15-20 FT)
8/9/2018: 0.34 J µg/L
11/6/2018: 0.36 J µg/L
2/27/2019: 0.30 J µg/L
6/11/2019: 0.42 J µg/L

MW-40 (20-25 FT)
8/10/2018: 2.4 µg/L
11/1/2018: 2.6 µg/L
6/15/2019: 2.2 µg/L

MW-1 (14-19 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-7 (18-23 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
8/14/2018: 0.29 J µg/L
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

LMW-15-01

MW-14 (15-20 FT)
8/14/2018: 0.31 J µg/L
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
8/9/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

PW-16-01 (9.7-19.7 FT)
8/6/2018: 180 µg/L
10/30/2018: 250 µg/L
2/26/2019: 0.51 J µg/L
6/10/2019: 300 µg/L

TW-16-01 (12-17 FT)
8/6/2018: 140 µg/L
10/30/2018: 180 µg/L
2/26/2019: 150 µg/L
6/10/2019: 140 µg/L

VAULT V-ESD-5

MW-32 (18-23 FT)
8/7/2018: 0.32 J µg/L
11/7/2018: 0.38 J µg/L
2/28/2019: 0.48 J µg/L
6/11/2019: 0.43 J µg/L

MW-15-60D (93-98 FT)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-36 (20-25 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

WESTERN DIVERSION CHAMBER

MW-24 (19-24 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: 0.16 J µg/L

PLYMOUTH RD

MW-37 (18-23 FT)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

EASTERN DIVERSION CHAMBER

MW-39 (20-25 FT)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

LEGEND

- ON-SITE MONITORING WELL CIS-1,2-DICHLOROETHENE ≤ 70 µg/L
- ON-SITE MONITORING WELL CIS-1,2-DICHLOROETHENE > 70 µg/L
- BLUE/BOLD TEXT — EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA FROM PAST AND PRESENT SAMPLING EVENTS
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, OCTOBER/NOVEMBER 2018, FEBRUARY/MARCH 2019 AND APRIL/JUNE 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR CIS-1,2-DICHLOROETHENE IS 70 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR CIS-1,2-DICHLOROETHENE.

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

BLUE BOX INDICATES EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS
CIS-1,2-DICHLOROETHENE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE
4

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\FordLivonia\GIS\docs\GEC\2Q_2019\Figure 4_On-Site GWA cis.mxd PLOTTED: 7/28/2019 10:04:38 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-15-59D (94-99 FT)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-113 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-114 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-120 (7-12 FT)
4/23/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-28 (2-12 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-56 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-54S (4.5-9.5 FT)
4/29/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-53 (16-21 FT)
8/13/2018: ND (< 1.0 J µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-124 (5-10 FT)
4/23/2019: 0.19 J µg/L
6/13/2019: 0.26 J µg/L

MW-27

MW-122

MW-55D (19-24 FT)
6/11/2019: ND (< 1.0 µg/L)

LMW-15-07

MW-58 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

TW-16-03 (9-19 FT)
8/8/2018: ND (< 2.0 µg/L)
10/30/2018: ND (< 6.7 µg/L)
2/25/2019: ND (< 1.7 µg/L)
6/11/2019: ND (< 1.0 µg/L)

VAULT ESD-1

MW-52 (15-20 FT)
8/10/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-26 (4.5-14.5 FT)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-57 (17-22 FT)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

LMW-15-06

LMW-15-08

LMW-15-10

TW-16-04 (9-19 FT)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 3.3 µg/L)
2/25/2019: ND (< 3.3 µg/L)
6/11/2019: ND (< 2.5 µg/L)

MW-50 (16-21 FT)
8/6/2018: 0.31 J µg/L
10/24/2018: ND (< 5.0 µg/L)
2/27/2019: ND (< 6.7 µg/L)
6/12/2019: 0.31 J µg/L

ESD-1

MW-43 (17-22 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-62 (16.3-21.3 FT)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-29 (5-15 FT)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-63 (7-12 FT)
8/6/2018: 0.30 J µg/L
10/24/2018: 0.29 J µg/L
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: 0.42 J µg/L

MW-35 (19.5-24.5 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: 0.19 J µg/L
6/15/2019: ND (< 1.0 µg/L)

VAULT ESD-2

MW-64 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
11/5/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

LMW-15-09

MW-42 (16-21 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-51 (15-20 FT)
8/6/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-65 (16-21 FT)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.5 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-48 (17-22 FT)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-15-61D (88-93 FT)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-44 (16-21 FT)
8/13/2018: ND (< 20 µg/L)
10/30/2018: ND (< 20 µg/L)
2/25/2019: ND (< 20 µg/L)
6/11/2019: ND (< 20 µg/L)

MW-66 (15-20 FT)
8/8/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

ESD-2

MW-67 (9-14 FT)
8/13/2018: 0.78 J µg/L
10/25/2018: 0.88 J µg/L
2/28/2019: 1.4 J µg/L
6/13/2019: ND (< 3.3 µg/L)

LMW-15-02

MW-19 (15-20 FT)
8/10/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-22 (16.5-21.5 FT)
8/6/2018: ND (< 50 µg/L)
10/30/2018: ND (< 100 µg/L)
2/25/2019: ND (< 50 µg/L)
6/10/2019: ND (< 200 µg/L)

VAULT ESD-3

MW-47 (16-21 FT)
8/9/2018: 7.2 µg/L
10/25/2018: 7.1 µg/L
2/28/2019: 5.4 µg/L
6/12/2019: 5.3 µg/L

MW-68 (15-20 FT)
8/9/2018: 1.7 µg/L
10/25/2018: 2.1 µg/L
2/27/2019: 3.6 µg/L
6/12/2019: 4.0 µg/L

MW-34 (16.5-21.5 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-3 (14-19 FT)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

LMW-15-05

LMW-15-03

MW-46 (16-21 FT)
8/9/2018: 1.2 µg/L
11/2/2018: 0.56 J µg/L
2/26/2019: 0.20 J µg/L
6/11/2019: ND (< 3.3 µg/L)

ESD-3

MW-41 (16-21 FT)
8/10/2018: 0.34 J µg/L
11/1/2018: 0.35 J µg/L
3/2/2019: 0.42 J µg/L
6/15/2019: ND (< 1.0 µg/L)

MW-5 (15.5-20.5 FT)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-10 (16.5-21.5 FT)
8/9/2018: ND (< 140 µg/L)
11/7/2018: ND (< 250 µg/L)
3/1/2019: ND (< 100 µg/L)
6/11/2019: ND (< 100 µg/L)

MW-21 (13.5-18.5 FT)
8/14/2018: 190 J µg/L
10/26/2018: ND (< 1,700 µg/L)
2/26/2019: ND (< 2,500 µg/L)
6/13/2019: ND (< 710 µg/L)

SSDS Location

TW-16-02 (12-17 FT)
8/6/2018: 56 J µg/L
10/30/2018: ND (< 500 µg/L)
2/26/2019: 130 J µg/L
6/10/2019: ND (< 250 µg/L)

PW-16-01 (9.7-19.7 FT)
8/6/2018: ND (< 40 µg/L)
10/30/2018: 10 J µg/L
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 100 µg/L)

VAULT ESD-4

MW-30 (19-24 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

LEVAN RD

MW-4 (15.5-20.5 FT)
8/7/2018: 1,000 µg/L
10/26/2018: 1,100 µg/L
3/1/2019: 1,000 J µg/L
6/11/2019: 310 J µg/L

LMW-15-04

MW-49 (12.5-17.5 FT)
8/14/2018: 110 J µg/L
10/30/2018: ND (< 1,000 µg/L)
2/27/2019: ND (< 2,500 µg/L)
6/11/2019: ND (< 710 µg/L)

MW-70 (15-20 FT)
8/9/2018: 3.3 J µg/L
11/2/2018: 4.4 µg/L
2/26/2019: 3.8 J µg/L
6/11/2019: 2.4 J µg/L

MW-69 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-2 (15.5-20.5 FT)
8/10/2018: 510 µg/L
10/26/2018: 530 µg/L
3/1/2019: 760 µg/L
6/11/2019: 790 µg/L

MW-18 (13-18 FT)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-23 (15-20 FT)
8/6/2018: 2,300 J µg/L
10/30/2018: 3,000 µg/L
6/10/2019: 1,000 µg/L

TW-16-01 (12-17 FT)
8/6/2018: 7.5 J µg/L
10/30/2018: 14 J µg/L
2/26/2019: 22 J µg/L
6/10/2019: 8.0 J µg/L

MW-71 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-31 (17-22 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

LMW-15-01

MW-15-60D (93-98 FT)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-1 (14-19 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-7 (18-23 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-14 (15-20 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
8/9/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

HCS Location

EASTERN DIVERSION CHAMBER

MW-45 (15-20 FT)
8/9/2018: ND (< 33 µg/L)
11/2/2018: 6.5 J µg/L
2/26/2019: ND (< 17 µg/L)
6/11/2019: ND (< 25 µg/L)

VAULT ESD-5

MW-40 (20-25 FT)
8/10/2018: 0.37 J µg/L
11/1/2018: 0.39 J µg/L
6/15/2019: 0.37 J µg/L

MW-36 (20-25 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

WESTERN DIVERSION CHAMBER

MW-24 (19-24 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

PLYMOUTH RD

MW-37 (18-23 FT)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-32 (18-23 FT)
8/7/2018: ND (< 1.0 µg/L)
11/7/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

LEGEND

- ON-SITE MONITORING WELL TRANS-1,2-DICHLOROETHENE ≤ 100 µg/L
- ON-SITE MONITORING WELL TRANS-1,2-DICHLOROETHENE > 100 µg/L
- BLUE/BOLD TEXT — EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA FROM PAST AND PRESENT SAMPLING EVENTS
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, OCTOBER/NOVEMBER 2018, FEBRUARY/ MARCH 2019 AND APRIL/JUNE 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR TRANS-1,2-DICHLOROETHENE IS 100 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TRANS-1,2-DICHLOROETHENE.

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

BLUE BOX INDICATES EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS
TRANS-1,2-DICHLOROETHENE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE
5

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\FordLivonia\GIS\docs\GEC\2Q_2019\Figure 5_On-Site GWA trans.mxd PLOTTED: 7/28/2019 10:00:13 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-15-59D (94-99 FT)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/5/2019: 0.13 J µg/L
6/13/2019: ND (< 1.0 µg/L)

MW-113 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-114 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-124 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-26 (4.5-14.5 FT)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-27

LMW-15-07

LMW-15-06

LMW-15-08

LMW-15-10

MW-29 (5-15 FT)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

LMW-15-09

MW-120 (7-12 FT)
4/23/2019: 3.7 µg/L
6/15/2019: 4.3 µg/L

MW-28 (2-12 FT)
8/13/2018: 0.66 J µg/L
10/31/2018: 0.70 J µg/L
2/26/2019: 0.30 J µg/L
6/11/2019: 0.43 J µg/L

MW-56 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-122

MW-54S (4.5-9.5 FT)
4/29/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

TW-16-03 (9-19 FT)
8/8/2018: ND (< 2.0 µg/L)
10/30/2018: ND (< 6.7 µg/L)
2/25/2019: ND (< 1.7 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-58 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-55D (19-24 FT)
6/11/2019: ND (< 1.0 µg/L)

VAULT ESD-1

MW-53 (16-21 FT)
8/13/2018: ND (< 1.0 J µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

TW-16-04 (9-19 FT)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 3.3 µg/L)
2/25/2019: ND (< 3.3 µg/L)
6/11/2019: ND (< 2.5 µg/L)

MW-62 (16.3-21.3 FT)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-57 (17-22 FT)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-52 (15-20 FT)
8/10/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-50 (16-21 FT)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 5.0 µg/L)
2/27/2019: ND (< 6.7 µg/L)
6/12/2019: ND (< 1.0 µg/L)

ESD-1

MW-63 (7-12 FT)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-43 (17-22 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

VAULT ESD-2

MW-65 (16-21 FT)
8/8/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.5 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-48 (17-22 FT)
8/6/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-35 (19.5-24.5 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: 0.11 J µg/L
6/15/2019: ND (< 1.0 µg/L)

MW-66 (15-20 FT)
8/8/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
3/4/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-42 (16-21 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: 0.13 J µg/L
6/15/2019: ND (< 1.0 µg/L)

MW-51 (15-20 FT)
8/6/2018: ND (< 1.0 µg/L)
10/30/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-64 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
11/5/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-15-61D (88-93 FT)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-44 (16-21 FT)
8/13/2018: ND (< 20 µg/L)
10/30/2018: ND (< 20 µg/L)
2/25/2019: ND (< 20 µg/L)
6/11/2019: ND (< 20 µg/L)

MW-68 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
10/25/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: 0.26 J µg/L

ESD-2

MW-67 (9-14 FT)
8/13/2018: 60 µg/L
10/25/2018: 69 µg/L
2/28/2019: 41 µg/L
6/13/2019: ND (< 3.3 µg/L)

VAULT ESD-3

MW-34 (16.5-21.5 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-3 (14-19 FT)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-19 (15-20 FT)
8/10/2018: 1.0 µg/L
10/26/2018: 0.97 J µg/L
2/28/2019: 0.66 J µg/L
6/12/2019: 0.60 J µg/L

MW-22 (16.5-21.5 FT)
8/6/2018: ND (< 50 µg/L)
10/30/2018: ND (< 100 µg/L)
2/25/2019: ND (< 50 µg/L)
6/10/2019: ND (< 200 µg/L)

MW-47 (16-21 FT)
8/9/2018: ND (< 1.7 µg/L)
10/25/2018: ND (< 5.0 µg/L)
2/28/2019: ND (< 2.5 µg/L)
6/12/2019: ND (< 4.0 µg/L)

MW-69 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-41 (16-21 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

LMW-15-05

LMW-15-03

SSDS Location

MW-5 (15.5-20.5 FT)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: 0.18 J µg/L
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-10 (16.5-21.5 FT)
8/9/2018: ND (< 140 µg/L)
11/7/2018: ND (< 250 µg/L)
3/1/2019: 14 J µg/L
6/11/2019: ND (< 100 µg/L)

MW-70 (15-20 FT)
8/9/2018: ND (< 13 µg/L)
11/2/2018: ND (< 4.0 µg/L)
2/26/2019: ND (< 10 µg/L)
6/11/2019: ND (< 10 µg/L)

MW-46 (16-21 FT)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 3.3 µg/L)

MW-30 (19-24 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

LEVAN RD

MW-4 (15.5-20.5 FT)
8/7/2018: 31,000 µg/L
10/26/2018: 35,000 µg/L
3/1/2019: 41,000 µg/L
6/11/2019: 13,000 µg/L

MW-21 (13.5-18.5 FT)
8/14/2018: ND (< 1,000 µg/L)
10/26/2018: 1,900 µg/L
2/26/2019: 570 J µg/L
6/13/2019: ND (< 710 µg/L)

TW-16-02 (12-17 FT)
8/6/2018: ND (< 250 µg/L)
10/30/2018: ND (< 500 µg/L)
2/26/2019: ND (< 330 µg/L)
6/10/2019: ND (< 250 µg/L)

PW-16-01 (9.7-19.7 FT)
8/6/2018: ND (< 40 µg/L)
10/30/2018: ND (< 40 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 100 µg/L)

MW-31 (17-22 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

LMW-15-04

MW-2 (15.5-20.5 FT)
8/10/2018: ND (< 140 µg/L)
10/26/2018: 8.2 J µg/L
3/1/2019: ND (< 100 µg/L)
6/11/2019: ND (< 100 µg/L)

MW-49 (12.5-17.5 FT)
8/14/2018: ND (< 500 µg/L)
10/30/2018: ND (< 1,000 µg/L)
2/27/2019: ND (< 2,500 µg/L)
6/11/2019: ND (< 710 µg/L)

TW-16-01 (12-17 FT)
8/6/2018: ND (< 25 µg/L)
10/30/2018: ND (< 25 µg/L)
2/26/2019: 15 J µg/L
6/10/2019: ND (< 33 J µg/L)

MW-71 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
11/6/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-40 (20-25 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-25 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-1 (14-19 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-7 (18-23 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

LMW-15-01

MW-24 (19-24 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
8/9/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

HCS Location

MW-45 (15-20 FT)
8/9/2018: ND (< 33 µg/L)
11/2/2018: 2.7 J µg/L
2/26/2019: ND (< 17 µg/L)
6/11/2019: ND (< 25 µg/L)

MW-32 (18-23 FT)
8/7/2018: ND (< 1.0 µg/L)
11/7/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-15-60D (93-98 FT)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-23 (15-20 FT)
8/6/2018: 12,000 µg/L
10/30/2018: 18,000 µg/L
6/10/2019: 7,000 µg/L

EASTERN DIVERSION CHAMBER

VAULT ESD-5

MW-39 (20-25 FT)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

LMW-15-02

MW-36 (20-25 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-14 (15-20 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-18 (13-18 FT)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-37 (18-23 FT)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

WESTERN DIVERSION CHAMBER

PLYMOUTH RD

LEGEND

- ON-SITE MONITORING WELL TRICHLOROETHENE ≤ 5.0 µg/L
- ON-SITE MONITORING WELL TRICHLOROETHENE > 5.0 µg/L
- BLUE/BOLD TEXT — EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA FROM PAST AND PRESENT SAMPLING EVENTS
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, OCTOBER/NOVEMBER 2018, FEBRUARY/ MARCH 2019 AND APRIL/JUNE 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR TRICHLOROETHENE IS 5.0 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TRICHLOROETHENE.

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

BLUE BOX INDICATES EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS TRICHLOROETHENE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 6

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\FordLivoniaGIS\docs\GEC\2Q_2019\Figure 6_On-Site GWA TCE.mxd PLOTTED: 7/28/2019 10:08:39 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-15-59D (94-99 FT)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-120 (7-12 FT)
4/23/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-28 (2-12 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
2/26/2019: 0.33 J µg/L
6/11/2019: ND (< 1.0 µg/L)

MW-56 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: 0.31 J µg/L
2/27/2019: 0.38 J µg/L
6/11/2019: ND (< 1.0 µg/L)

MW-55 (15-20 FT)
8/13/2018: 0.39 J µg/L
10/31/2018: 0.57 J µg/L
2/27/2019: 0.54 J µg/L
6/11/2019: 0.48 J µg/L

MW-54S (4.5-9.5 FT)
4/29/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-54 (16-21 FT)
8/13/2018: 0.34 J µg/L
10/31/2018: 0.85 J µg/L
6/10/2019: 0.87 J µg/L

MW-53 (16-21 FT)
8/13/2018: 0.45 J µg/L
10/31/2018: 0.60 J µg/L
2/28/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-114 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

MW-27

MW-122

MW-124 (5-10 FT)
4/23/2019: 0.32 J µg/L
6/13/2019: 0.40 J µg/L

LMW-15-07

MW-113 (5-10 FT)
4/23/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-26 (4.5-14.5 FT)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/13/2019: ND (< 1.0 µg/L)

TW-16-03 (9-19 FT)
8/8/2018: 76 µg/L
10/30/2018: 97 µg/L
2/25/2019: 48 µg/L
6/11/2019: 20 µg/L

MW-58 (15-20 FT)
8/13/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-55D (19-24 FT)
6/11/2019: 0.34 J µg/L

VAULT V-ESD-1

MW-57 (17-22 FT)
8/6/2018: 0.39 J µg/L
10/25/2018: 0.64 J µg/L
2/28/2019: 0.88 J µg/L
6/11/2019: 0.77 J µg/L

MW-52 (15-20 FT)
8/10/2018: 4.5 µg/L
10/31/2018: 5.0 µg/L
3/2/2019: 3.9 µg/L
6/15/2019: 3.4 µg/L

MW-50 (16-21 FT)
8/6/2018: 97 µg/L
10/24/2018: 99 µg/L
2/27/2019: 170 µg/L
6/12/2019: 200 µg/L

TW-16-04 (9-19 FT)
8/8/2018: 63 µg/L
10/30/2018: 90 µg/L
2/25/2019: 65 µg/L
6/11/2019: 51 µg/L

MW-62 (16.3-21.3 FT)
8/6/2018: 0.66 J µg/L
10/24/2018: 1.0 µg/L
2/27/2019: 0.73 J µg/L
6/12/2019: 0.62 J µg/L

MW-43 (17-22 FT)
8/10/2018: 1.0 µg/L
11/1/2018: 0.71 J µg/L
3/2/2019: 3.4 µg/L
6/15/2019: 1.5 µg/L

LMW-15-06

LMW-15-08

LMW-15-10

MW-29 (5-15 FT)
8/9/2018: ND (< 1.0 µg/L)
10/26/2018: 0.20 J µg/L
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

PW-16-02 (6-21 FT)
8/8/2018: 71 µg/L
10/30/2018: 62 µg/L
2/25/2019: 0.94 J µg/L
6/11/2019: ND (< 1.0 µg/L)

MW-63 (7-12 FT)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

ESD-1

MW-64 (15-20 FT)
8/13/2018: 5.9 µg/L
11/5/2018: 3.0 µg/L
2/28/2019: 3.4 µg/L
6/11/2019: 1.7 µg/L

MW-35 (19.5-24.5 FT)
8/10/2018: 3.0 µg/L
11/1/2018: 1.8 µg/L
3/2/2019: 4.1 µg/L
6/15/2019: 6.7 µg/L

VAULT V-ESD-2

LMW-15-09

MW-51 (15-20 FT)
8/6/2018: 0.40 J µg/L
10/30/2018: 0.39 J µg/L
3/1/2019: 0.29 J µg/L
6/12/2019: 0.36 J µg/L

MW-65 (16-21 FT)
8/8/2018: 35 µg/L
10/30/2018: 48 µg/L
2/28/2019: 34 µg/L
6/12/2019: 41 µg/L

MW-48 (17-22 FT)
8/6/2018: 5.3 µg/L
10/25/2018: 6.6 µg/L
3/4/2019: 0.24 J µg/L
6/13/2019: ND (< 1.0 µg/L)

MW-42 (16-21 FT)
8/10/2018: 0.60 J µg/L
11/1/2018: 0.60 J µg/L
3/2/2019: 0.70 J µg/L
6/15/2019: 0.67 J µg/L

MW-5 (15.5-20.5 FT)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

LMW-15-02

MW-44 (16-21 FT)
8/13/2018: 240 µg/L
10/30/2018: 240 µg/L
2/25/2019: 180 µg/L
6/11/2019: 180 µg/L

MW-66 (15-20 FT)
8/8/2018: 3.2 µg/L
11/2/2018: 1.2 µg/L
3/4/2019: 3.2 µg/L
6/10/2019: 1.5 µg/L

MW-67 (9-14 FT)
8/13/2018: ND (< 2.5 µg/L)
10/25/2018: ND (< 3.3 µg/L)
2/28/2019: 1.7 J µg/L
6/13/2019: ND (< 3.3 µg/L)

MW-15-61D (88-93 FT)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

ESD-2

MW-47 (16-21 FT)
8/9/2018: 59 µg/L
10/25/2018: 100 µg/L
2/28/2019: 44 µg/L
6/12/2019: 120 µg/L

MW-34 (16.5-21.5 FT)
8/10/2018: 1.1 µg/L
11/1/2018: 1.2 µg/L
3/2/2019: 0.85 J µg/L
6/15/2019: 0.89 J µg/L

VAULT V-ESD-3

MW-19 (15-20 FT)
8/10/2018: ND (< 1.0 µg/L)
10/26/2018: 1.6 µg/L
2/28/2019: 1.9 µg/L
6/12/2019: 0.73 J µg/L

MW-46 (16-21 FT)
8/9/2018: 66 µg/L
11/2/2018: 32 µg/L
2/26/2019: 17 µg/L
6/11/2019: 87 µg/L

MW-68 (15-20 FT)
8/9/2018: 2.2 µg/L
10/25/2018: 2.1 µg/L
2/27/2019: 17 µg/L
6/12/2019: 19 µg/L

MW-41 (16-21 FT)
8/10/2018: 3.0 µg/L
11/1/2018: 2.0 µg/L
3/2/2019: 3.2 µg/L
6/15/2019: 1.9 µg/L

MW-3 (14-19 FT)
8/7/2018: ND (< 1.0 µg/L)
10/26/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

LEVAN RD

MW-22 (16.5-21.5 FT)
8/6/2018: 1,300 µg/L
10/30/2018: 2,600 J µg/L
2/25/2019: 1,700 µg/L
6/10/2019: 2,600 µg/L

LMW-15-05

LMW-15-03

MW-14 (15-20 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

SSDS Location

MW-70 (15-20 FT)
8/9/2018: 190 µg/L
11/2/2018: 210 µg/L
2/26/2019: 350 µg/L
6/11/2019: 230 µg/L

VAULT V-ESD-4

MW-30 (19-24 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-2 (15.5-20.5 FT)
8/10/2018: 170 µg/L
10/26/2018: 190 µg/L
3/1/2019: 230 µg/L
6/11/2019: 190 µg/L

MW-4 (15.5-20.5 FT)
8/7/2018: ND (< 1,000 µg/L)
10/26/2018: 610 µg/L
3/1/2019: 1,100 J µg/L
6/11/2019: ND (< 1,000 µg/L)

PW-16-01 (9.7-19.7 FT)
8/6/2018: 870 µg/L
10/30/2018: 1,400 µg/L
2/26/2019: 0.92 J µg/L
6/10/2019: 2,100 µg/L

MW-21 (13.5-18.5 FT)
8/14/2018: 3,400 µg/L
10/26/2018: 7,800 µg/L
2/26/2019: 5,600 µg/L
6/13/2019: 2,400 µg/L

MW-45 (15-20 FT)
8/9/2018: 800 µg/L
11/2/2018: 420 µg/L
2/26/2019: 380 µg/L
6/11/2019: 540 µg/L

MW-69 (15-20 FT)
8/13/2018: 2.7 µg/L
11/6/2018: 1.4 µg/L
2/28/2019: 4.1 µg/L
6/12/2019: 3.6 µg/L

LMW-15-04

MW-25 (16-21 FT)
8/13/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-10 (16.5-21.5 FT)
8/9/2018: 2,300 µg/L
11/7/2018: 3,100 µg/L
3/1/2019: 3,300 µg/L
6/11/2019: 3,600 µg/L

MW-49 (12.5-17.5 FT)
8/14/2018: 4,900 µg/L
10/30/2018: 8,400 µg/L
2/27/2019: 9,100 µg/L
6/11/2019: 7,100 µg/L

TW-16-02 (12-17 FT)
8/6/2018: 7,300 µg/L
10/30/2018: 12,000 µg/L
2/26/2019: 8,900 µg/L
6/10/2019: 5,800 µg/L

MW-71 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
11/6/2018: 0.31 J µg/L
2/27/2019: 0.40 J µg/L
6/11/2019: 0.77 J µg/L

MW-31 (17-22 FT)
8/10/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
3/2/2019: ND (< 1.0 µg/L)
6/15/2019: ND (< 1.0 µg/L)

MW-7 (18-23 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

MW-1 (14-19 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-9 (19.5-24.5 FT)
8/14/2018: 1.7 µg/L
10/29/2018: 1.5 µg/L
3/1/2019: 0.94 J µg/L
6/10/2019: 1.2 µg/L

LMW-15-01

MW-18 (13-18 FT)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/10/2019: ND (< 1.0 µg/L)

TW-16-01 (12-17 FT)
8/6/2018: 680 µg/L
10/30/2018: 830 µg/L
2/26/2019: 750 µg/L
6/10/2019: 550 µg/L

MW-40 (20-25 FT)
8/10/2018: 0.54 J µg/L
11/1/2018: 1.4 µg/L
6/15/2019: 0.26 J µg/L

HCS Location

EASTERN DIVERSION CHAMBER

MW-23 (15-20 FT)
8/6/2018: ND (< 2,500 µg/L)
10/30/2018: 1,600 J µg/L
6/10/2019: 670 J µg/L

VAULT V-ESD-5

MW-32 (18-23 FT)
8/7/2018: ND (< 1.0 µg/L)
11/7/2018: 0.38 J µg/L
2/28/2019: 0.39 J µg/L
6/11/2019: 0.35 J µg/L

MW-15-60D (93-98 FT)
8/7/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/5/2019: 0.31 J µg/L
6/13/2019: ND (< 1.0 µg/L)

MW-36 (20-25 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-24 (19-24 FT)
8/14/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-20 (13.5-18.5 FT)
8/9/2018: ND (< 1.0 µg/L)
10/29/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-37 (18-23 FT)
8/9/2018: ND (< 1.0 µg/L)
10/31/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/12/2019: ND (< 1.0 µg/L)

MW-38 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-33 (14-19 FT)
8/9/2018: ND (< 1.0 µg/L)
11/2/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

MW-39 (20-25 FT)
8/7/2018: ND (< 1.0 µg/L)
11/1/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
6/11/2019: ND (< 1.0 µg/L)

WESTERN DIVERSION CHAMBER

PLYMOUTH RD

LEGEND

- ON-SITE MONITORING WELL VINYL CHLORIDE ≤ 2.0 µg/L
- ON-SITE MONITORING WELL VINYL CHLORIDE > 2.0 µg/L
- BLUE/BOLD TEXT — EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA FROM PAST AND PRESENT SAMPLING EVENTS
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, OCTOBER/NOVEMBER 2018, FEBRUARY/ MARCH 2019 AND APRIL/JUNE 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR VINYL CHLORIDE IS 2.0 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR VINYL CHLORIDE.

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

BLUE BOX INDICATES EXCEEDANCE OF THE NONRESIDENTIAL DRINKING WATER CRITERIA ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS VINYL CHLORIDE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 7

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
PLOTTED: 7/28/2019 11:04:29 PM BY: Sharmayh4948
Z:\GISProjects_ENV\NoviBrighton_MIFordLivoniaGIS\docs\GEC\2Q_2019\Figure 7_On-Site GWA VC.mxd

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-15-59D (94-99 FT)
8/9/2018: ND (< 2.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)
6/13/2019: ND (< 2.0 µg/L)

MW-113 (5-10 FT)
4/23/2019: ND (< 2.0 µg/L)
6/12/2019: ND (< 2.0 µg/L)

MW-114 (5-10 FT)
4/23/2019: ND (< 2.0 µg/L)
6/13/2019: ND (< 2.0 µg/L)

MW-124 (5-10 FT)
4/23/2019: ND (< 2.0 µg/L)
6/13/2019: ND (< 2.0 µg/L)

MW-26 (4.5-14.5 FT)
8/9/2018: ND (< 2.0 µg/L)
10/26/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)
6/13/2019: ND (< 2.0 µg/L)

MW-28 (2-12 FT)
8/13/2018: ND (< 2.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-120 (7-12 FT)
4/23/2019: ND (< 2.0 µg/L)
6/15/2019: ND (< 2.0 µg/L)

MW-56 (16-21 FT)
8/13/2018: 2.3 µg/L
10/31/2018: 2.7 µg/L
2/27/2019: 2.9 µg/L
6/11/2019: 3.7 µg/L

MW-55D (19-24 FT)
6/11/2019: 2.8 µg/L

MW-55 (15-20 FT)
8/13/2018: 1.1 J µg/L
10/31/2018: 1.6 J µg/L
2/27/2019: ND (< 2.0 µg/L)
6/11/2019: 1.2 J µg/L

MW-54S (4.5-9.5 FT)
4/29/2019: ND (< 2.0 µg/L)
6/10/2019: ND (< 2.0 µg/L)

MW-54 (16-21 FT)
8/13/2018: 1.4 J µg/L
10/31/2018: 2.6 µg/L
6/10/2019: 3.0 µg/L

MW-53 (16-21 FT)
8/13/2018: 1.6 J µg/L
10/31/2018: 1.8 J µg/L
2/28/2019: 1.7 J µg/L
6/10/2019: 2.5 µg/L

MW-52 (15-20 FT)
8/10/2018: 1.8 J µg/L
10/31/2018: 2.7 µg/L
3/2/2019: 1.9 J µg/L
6/15/2019: 1.2 J µg/L

MW-43 (17-22 FT)
8/10/2018: 3.3 µg/L
11/1/2018: 4.0 µg/L
3/2/2019: 3.3 µg/L
6/15/2019: 2.7 µg/L

MW-35 (19.5-24.5 FT)
8/10/2018: 4.3 µg/L
11/1/2018: 4.5 µg/L
3/2/2019: 5.8 µg/L
6/15/2019: 5.2 µg/L

MW-42 (16-21 FT)
8/10/2018: 2.3 µg/L
11/1/2018: 2.6 µg/L
3/2/2019: 3.1 µg/L
6/15/2019: 2.5 µg/L

MW-15-61D (88-93 FT)
8/7/2018: ND (< 2.0 µg/L)
11/1/2018: ND (< 2.0 µg/L)
3/2/2019: ND (< 2.0 µg/L)
6/15/2019: ND (< 2.0 µg/L)

MW-34 (16.5-21.5 FT)
8/10/2018: 7.6 µg/L
11/1/2018: 6.7 µg/L
3/2/2019: 6.9 µg/L
6/15/2019: 5.6 µg/L

MW-41 (16-21 FT)
8/10/2018: 1.6 J µg/L
11/1/2018: 1.9 J µg/L
3/2/2019: 1.4 J µg/L
6/15/2019: 1.3 J µg/L

MW-30 (19-24 FT)
8/10/2018: 15 µg/L
11/1/2018: 15 µg/L
3/2/2019: 15 µg/L
6/15/2019: 13 µg/L

MW-71 (15-20 FT)
8/9/2018: 0.95 J µg/L
11/6/2018: 1.1 J µg/L
2/27/2019: ND (< 2.0 µg/L)
6/11/2019: 1.6 J µg/L

MW-31 (17-22 FT)
8/10/2018: ND (< 2.0 µg/L)
11/1/2018: ND (< 2.0 µg/L)
3/2/2019: ND (< 2.0 µg/L)
6/15/2019: ND (< 2.0 µg/L)

MW-40 (20-25 FT)
8/10/2018: ND (< 2.0 µg/L)
11/1/2018: ND (< 2.0 µg/L)
6/15/2019: ND (< 2.0 µg/L)

MW-32 (18-23 FT)
8/7/2018: ND (< 2.0 µg/L)
11/7/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-39 (20-25 FT)
8/7/2018: ND (< 2.0 µg/L)
11/1/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-33 (14-19 FT)
8/9/2018: ND (< 2.0 µg/L)
11/2/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-38 (15-20 FT)
8/9/2018: ND (< 2.0 µg/L)
11/1/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-37 (18-23 FT)
8/9/2018: ND (< 2.0 µg/L)
10/31/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)
6/12/2019: ND (< 2.0 µg/L)

MW-18 (13-18 FT)
8/7/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)
6/10/2019: ND (< 2.0 µg/L)

MW-24 (19-24 FT)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-36 (20-25 FT)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-1 (14-19 FT)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-15-60D (93-98 FT)
8/7/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)
6/13/2019: ND (< 2.0 µg/L)

MW-4 (15.5-20.5 FT)
8/7/2018: ND (< 200 µg/L)
10/26/2018: ND (< 200 µg/L)
3/1/2019: ND (< 200 µg/L)
6/11/2019: 1.9 J µg/L

MW-25 (16-21 FT)
8/13/2018: 1.9 J µg/L
10/29/2018: 3.2 µg/L
2/27/2019: 4.5 µg/L
6/10/2019: 4.3 µg/L

MW-5 (15.5-20.5 FT)
8/7/2018: ND (< 2.0 µg/L)
10/26/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-2 (15.5-20.5 FT)
8/10/2018: 5.1 µg/L
10/26/2018: 4.9 µg/L
3/1/2019: 3.9 µg/L
6/11/2019: 5.8 µg/L

MW-3 (14-19 FT)
8/7/2018: 1.4 J µg/L
10/26/2018: 1.3 J µg/L
3/1/2019: 1.0 J µg/L
6/11/2019: 1.8 J µg/L

MW-7 (18-23 FT)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)
6/10/2019: ND (< 2.0 µg/L)

MW-9 (19.5-24.5 FT)
8/14/2018: 4.3 µg/L
10/29/2018: 3.9 µg/L
3/1/2019: 3.8 µg/L
6/10/2019: 5.2 µg/L

MW-10 (16.5-21.5 FT)
8/9/2018: 4.8 µg/L
11/7/2018: 5.5 µg/L
3/1/2019: 4.5 µg/L
6/11/2019: 6.1 µg/L

MW-14 (15-20 FT)
8/14/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)
6/12/2019: ND (< 2.0 µg/L)

MW-19 (15-20 FT)
8/10/2018: 130 µg/L
10/26/2018: 150 µg/L
2/28/2019: 170 µg/L
6/12/2019: 190 µg/L

MW-21 (13.5-18.5 FT)
8/14/2018: 6.5 µg/L
10/26/2018: 14 µg/L
2/26/2019: 18 µg/L
6/13/2019: 6.3 µg/L

MW-49 (12.5-17.5 FT)
8/14/2018: 5.0 µg/L
10/30/2018: 5.4 µg/L
2/27/2019: 8.1 µg/L
6/11/2019: 6.1 µg/L

MW-23 (15-20 FT)
8/6/2018: ND (< 200 µg/L)
10/30/2018: ND (< 200 µg/L)
6/10/2019: ND (< 2.0 J µg/L)

MW-20 (13.5-18.5 FT)
8/9/2018: ND (< 2.0 µg/L)
10/29/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)
6/12/2019: ND (< 2.0 µg/L)

MW-22 (16.5-21.5 FT)
8/6/2018: 19 µg/L
10/30/2018: 37 µg/L
2/25/2019: 23 µg/L
6/10/2019: 40 µg/L

MW-58 (15-20 FT)
8/13/2018: 2.2 µg/L
10/31/2018: 3.9 µg/L
3/1/2019: 6.2 µg/L
6/11/2019: 11 µg/L

TW-16-03 (9-19 FT)
8/8/2018: 1.0 J µg/L
10/30/2018: 1.1 J µg/L
2/25/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

PW-16-02 (6-21 FT)
8/8/2018: 1.5 J µg/L
10/30/2018: 1.4 J µg/L
2/25/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

TW-16-04 (9-19 FT)
8/8/2018: 1.2 J µg/L
10/30/2018: 1.5 J µg/L
2/25/2019: 1.2 J µg/L
6/11/2019: 1.1 J µg/L

MW-63 (7-12 FT)
8/6/2018: ND (< 2.0 µg/L)
10/24/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)
6/12/2019: ND (< 2.0 µg/L)

MW-65 (16-21 FT)
8/8/2018: 1.8 J µg/L
10/30/2018: 2.9 µg/L
2/28/2019: 2.6 µg/L
6/12/2019: 3.8 µg/L

MW-51 (15-20 FT)
8/6/2018: 1.6 J µg/L
10/30/2018: 2.5 µg/L
3/1/2019: 1.5 J µg/L
6/12/2019: 2.2 µg/L

MW-44 (16-21 FT)
8/13/2018: 9.5 µg/L
10/30/2018: 2.7 µg/L
2/25/2019: 5.7 µg/L
6/11/2019: 14 µg/L

MW-47 (16-21 FT)
8/9/2018: ND (< 2.0 µg/L)
10/25/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)
6/12/2019: ND (< 2.0 µg/L)

MW-57 (17-22 FT)
8/6/2018: 4.5 µg/L
10/25/2018: 4.6 µg/L
2/28/2019: 3.1 µg/L
6/11/2019: 3.6 µg/L

MW-122

VAULT V-ESD-1

MW-62 (16.3-21.3 FT)
8/6/2018: 3.1 µg/L
10/24/2018: 2.3 µg/L
2/27/2019: 2.4 µg/L
6/12/2019: 2.0 µg/L

MW-50 (16-21 FT)
8/6/2018: 1.7 J µg/L
10/24/2018: 2.8 µg/L
2/27/2019: 3.6 µg/L
6/12/2019: 3.3 µg/L

ESD-1

VAULT V-ESD-2

MW-64 (15-20 FT)
8/13/2018: ND (< 2.0 µg/L)
11/5/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)
6/11/2019: ND (< 2.0 µg/L)

MW-66 (15-20 FT)
8/8/2018: ND (< 2.0 µg/L)
11/2/2018: 1.1 J µg/L
3/4/2019: 1.2 J µg/L
6/10/2019: ND (< 2.0 µg/L)

ESD-2

MW-48 (17-22 FT)
8/6/2018: 6.2 µg/L
10/25/2018: 6.5 µg/L
3/4/2019: 1.6 J µg/L
6/13/2019: ND (< 2.0 µg/L)

VAULT V-ESD-3

MW-67 (9-14 FT)
8/13/2018: ND (< 2.0 µg/L)
10/25/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)
6/13/2019: ND (< 2.0 µg/L)

MW-46 (16-21 FT)
8/9/2018: 8.5 µg/L
11/2/2018: 7.0 µg/L
2/26/2019: 3.0 µg/L
6/11/2019: 11 µg/L

ESD-3

MW-68 (15-20 FT)
8/9/2018: ND (< 2.0 µg/L)
10/25/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)
6/12/2019: ND (< 2.0 µg/L)

MW-70 (15-20 FT)
8/9/2018: 1.6 J µg/L
11/2/2018: 2.2 µg/L
2/26/2019: 6.5 µg/L
6/11/2019: 3.9 µg/L

VAULT V-ESD-4

MW-69 (15-20 FT)
8/13/2018: 7.1 µg/L
11/6/2018: 12 µg/L
2/28/2019: 5.0 µg/L
6/12/2019: 6.7 µg/L

PW-16-01 (9.7-19.7 FT)
8/6/2018: ND (< 2.0 µg/L)
10/30/2018: 1.3 J µg/L
2/26/2019: ND (< 2.0 µg/L)
6/10/2019: 3.0 µg/L

TW-16-02 (12-17 FT)
8/6/2018: 2.7 µg/L
10/30/2018: 5.3 µg/L
2/26/2019: 4.6 µg/L
6/10/2019: 2.8 µg/L

ESD-4

MW-45 (15-20 FT)
8/9/2018: 1.0 J µg/L
11/2/2018: 1.1 J µg/L
2/26/2019: ND (< 2.0 µg/L)
6/11/2019: 0.94 J µg/L

TW-16-01 (12-17 FT)
8/6/2018: ND (< 2.0 µg/L)
10/30/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)
6/10/2019: ND (< 2.0 J µg/L)

VAULT V-ESD-5

MW-27
LMW-15-07
LMW-15-06
LMW-15-08
LMW-15-10
LMW-15-09
LMW-15-02
LMW-15-05
LMW-15-03
SSDS Location
LMW-15-04
LMW-15-01
HCS Location
EASTERN DIVERSION CHAMBER
WESTERN DIVERSION CHAMBER
PLYMOUTH RD
LEVAN RD
STANDISH ST

LEGEND

- ON-SITE MONITORING WELL 1,4-DIOXANE ≤ 350 µg/L
- WELL NOT SAMPLED
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- FORD PROPERTY BOUNDARY

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, OCTOBER/NOVEMBER 2018, FEBRUARY/MARCH 2019 AND APRIL/JUNE 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR 1,4-DIOXANE IS 350 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR 1,4-DIOXANE.

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

HDPE = HIGH-DENSITY POLYETHYLENE

SSDS = SUB-SLAB DEPRESSURIZATION SYSTEM

HCS = HYDRAULIC CONTROL SYSTEM

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS 1,4-DIOXANE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 8

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\FordLivoniaGIS\docs\GEC\2Q_2019\Figure 8_On-Site GWA DX.mxd PLOTTED: 7/28/2019 10:19:28 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-131S (2.5-12.5 FT)
12/26/2018: 1.0 J µg/L
2/26/2019: ND (< 2.0 µg/L)
5/14/2019: 1.3 J µg/L

MW-102 (10-15 FT)
12/19/2018: 1.7 J µg/L
2/25/2019: 1.3 J µg/L
5/17/2019: 1.1 J µg/L

MW-102S (2.5-12.5 FT)
12/19/2018: ND (< 2.0 µg/L)
2/25/2019: ND (< 2.0 µg/L)
5/14/2019: ND (< 2.0 µg/L)

MW-132S (2.5-12.5 FT)
12/26/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)
5/14/2019: ND (< 2.0 µg/L)

MW-85SR (2.5-12.5 FT)
4/12/2019: ND (< 2.0 µg/L)

MW-72S (3-13 FT)
12/17/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)

MW-72 (15-20 FT)
8/10/2018: 1.1 J µg/L
10/22/2018: 1.4 J µg/L
3/5/2019: 0.91 J µg/L
5/17/2019: ND (< 2.0 µg/L)

MW-142S (2-7 FT)
2/25/2019: ND (< 2.0 µg/L)
5/23/2019: ND (< 2.0 µg/L)

MW-108S (2.5-12.5 FT)
12/26/2018: 0.90 J µg/L
5/14/2019: 0.93 J µg/L

MW-83S (3-13 FT)
12/26/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)
5/22/2019: ND (< 2.0 µg/L)

MW-105S (2.5-12.5 FT)
12/26/2018: ND (< 2.0 µg/L)
2/25/2019: ND (< 2.0 µg/L)
5/14/2019: ND (< 2.0 µg/L)

MW-141S (3-8 FT)
2/27/2019: ND (< 2.0 µg/L)
5/15/2019: ND (< 2.0 µg/L)

MW-85 (8-13 FT)
8/8/2018: ND (< 2.0 µg/L)
10/22/2018: 1.0 J µg/L
2/26/2019: ND (< 2.0 µg/L)
5/17/2019: 1.3 J µg/L

MW-136S (2-7 FT)
2/19/2019: ND (< 2.0 µg/L)
5/22/2019: ND (< 2.0 µg/L)

MW-107S (2.5-12.5 FT)
12/26/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)
5/10/2019: ND (< 2.0 µg/L)

MW-83 (8-13 FT)
8/8/2018: ND (< 2.0 µg/L)
10/22/2018: 0.92 J µg/L
3/5/2019: ND (< 2.0 µg/L)
5/22/2019: ND (< 2.0 µg/L)

MW-73D (13.5-18.5 FT)
8/10/2018: 1.9 J µg/L
10/22/2018: 3.8 µg/L
3/4/2019: 1.6 J µg/L
5/8/2019: 2.3 µg/L

MW-79D (10-15 FT)
8/6/2018: 0.87 J µg/L
10/24/2018: 0.95 J µg/L
3/7/2019: ND (< 2.0 µg/L)
5/15/2019: 0.99 J µg/L

MW-137S (2-7 FT)
2/23/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)

MW-82SR (5-15 FT)
12/26/2018: ND (< 2.0 µg/L)
3/5/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)

MW-73SR (2.5-12.5 FT)
12/17/2018: 0.87 J µg/L
3/4/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)

MW-79SR (2.5-12.5 FT)
12/19/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)
5/15/2019: ND (< 2.0 µg/L)

MW-80SR (2.5-12.5 FT)
12/27/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)
5/10/2019: ND (< 2.0 µg/L)

MW-82D (18-23 FT)
8/8/2018: ND (< 2.0 µg/L)
10/23/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)

MW-133S (4-9 FT)
2/14/2019: ND (< 2.0 µg/L)
5/23/2019: ND (< 2.0 µg/L)

MW-74 (14-19 FT)
8/9/2018: 1.6 J µg/L
10/22/2018: 2 µg/L
3/8/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)

MW-140S (2-7 FT)
2/26/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)

MW-98S (2.5-12.5 FT)
12/19/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)
5/10/2019: ND (< 2.0 µg/L)

MW-192S
4/11/2019: ND (< 2.0 µg/L)

MW-134S (5-10 FT)
2/14/2019: ND (< 2.0 µg/L)
5/20/2019: ND (< 2.0 µg/L)

MW-139S (2-7 FT)
2/26/2019: ND (< 2.0 µg/L)
5/9/2019: ND (< 2.0 µg/L)

MW-78S (2.5-12.5 FT)
12/19/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)

MW-135S (5-10 FT)
2/14/2019: ND (< 2.0 µg/L)
5/20/2019: ND (< 2.0 µg/L)

MW-74S (3-13 FT)
12/21/2018: ND (< 2.0 µg/L)
3/8/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)

MW-84 (8-13 FT)
8/6/2018: ND (< 2.0 µg/L)
10/23/2018: 0.86 J µg/L
2/28/2019: ND (< 2.0 J µg/L)
5/21/2019: ND (< 2.0 µg/L)

MW-138S (2-7 FT)
2/19/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)

MW-106S (2.5-12.5 FT)
12/19/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)

MW-81S (2.5-12.5 FT)
12/26/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)

MW-99S (3-13 FT)
12/21/2018: ND (< 2.0 µg/L)
3/7/2019: ND (< 2.0 µg/L)
5/9/2019: ND (< 2.0 µg/L)

MW-78 (7-12 FT)
8/6/2018: ND (< 2.0 µg/L)
10/22/2018: 0.90 J µg/L
12/19/2018: ND (< 2.0 µg/L)
2/26/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)

MW-96S (2.5-12.5 FT)
12/18/2018: ND (< 2.0 µg/L)
2/27/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)

MW-81 (8-13 FT)
8/9/2018: ND (< 2.0 µg/L)
10/23/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)

MW-75SR (2.5-12.5 FT)
12/18/2018: ND (< 2.0 µg/L)
3/7/2019: ND (< 2.0 µg/L)
5/9/2019: ND (< 2.0 µg/L)

MW-84S (2.5-12.5 FT)
12/21/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 J µg/L)
5/9/2019: ND (< 2.0 µg/L)

MW-77 (9-14 FT)
8/6/2018: ND (< 2.0 µg/L)
10/23/2018: ND (< 2.0 µg/L)
3/4/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)

MW-75D (12-17 FT)
8/9/2018: 2.0 µg/L
10/22/2018: 2.3 µg/L
3/7/2019: 1.5 J µg/L
5/15/2019: 1.5 J µg/L

MW-86 (12-17 FT)
8/6/2018: ND (< 2.0 µg/L)
10/24/2018: 1.4 J µg/L
2/28/2019: ND (< 2.0 µg/L)
5/21/2019: ND (< 2.0 µg/L)

MW-86S (2.5-12.5 FT)
12/18/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)

MW-77S (2.5-12.5 FT)
12/27/2018: ND (< 2.0 µg/L)
3/4/2019: ND (< 2.0 µg/L)
5/16/2019: ND (< 2.0 µg/L)

MW-100S (3-13 FT)
12/18/2018: 1.0 J µg/L
2/27/2019: ND (< 2.0 µg/L)
5/9/2019: ND (< 2.0 µg/L)

MW-87S (4.5-14.5 FT)
12/21/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)
5/13/2019: ND (< 2.0 µg/L)

MW-97S (2.5-12.5 FT)
12/27/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)
5/10/2019: ND (< 2.0 µg/L)

MW-87 (14-19 FT)
8/6/2018: ND (< 2.0 µg/L)
10/23/2018: 0.88 J µg/L
12/21/2018: ND (< 2.0 µg/L)
2/28/2019: ND (< 2.0 µg/L)
5/21/2019: ND (< 2.0 µg/L)

MW-101S (4.5-14.5 FT)
12/21/2018: ND (< 2.0 µg/L)
3/6/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)

MW-76 (15-20 FT)
8/9/2018: ND (< 2.0 µg/L)
10/22/2018: 1.0 J µg/L
12/21/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)
5/17/2019: ND (< 2.0 µg/L)

MW-76S (4.5-14.5 FT)
12/21/2018: ND (< 2.0 µg/L)
3/1/2019: ND (< 2.0 µg/L)
5/8/2019: ND (< 2.0 µg/L)

ROSATI AVE
FAIRLANE ST
BEACON ST
BREWSTER ST
STARK RD
BELDEN CT
STANDISH ST
WADSWORTH ST
PLYMOUTH RD
WAYNE RD
LAUREL ST
YALE ST

LEGEND

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY
- OFF-SITE MONITORING WELL 1,4-DIOXANE ≤ 7.2 µg/L

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, OCTOBER/DECEMBER 2018, FEBRUARY/MARCH 2019 AND APRIL/MAY 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

THE SITE SPECIFIC RESIDENTIAL DRINKING WATER CRITERIA FOR 1,4-DIOXANE IS 7.2 µg/L.

FT = FEET BELOW GROUND SURFACE

J = ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT.

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR 1,4-DIOXANE.

MW = MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE MONITORING WELLS 1,4-DIOXANE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 9

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: P. CURRY PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\Novi\Brighton_MI\Ford\Livonia\GIS\docs\GEC\2Q_2019\Figure 9_Off-Site GWA DX.mxd PLOTTED: 7/23/2019 1:06:17 AM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-102S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)

MW-131S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)

MW-132S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)

MW-142S (2.5-7.5 FT)
2/25/2019: ND (< 1.0 µg/L)
5/23/2019: ND (< 1.0 µg/L)

MW-83S (3-13 FT)
12/26/2018: 0.23 J µg/L
3/5/2019: 0.20 J µg/L
5/22/2019: ND (< 1.0 µg/L)

MW-102 (10-15 FT)
12/19/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)

ROSATI AVE

MW-105S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)

MW-108S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/25/2019: NS
5/14/2019: ND (< 1.0 µg/L)

MW-83 (8-13 FT)
8/8/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/5/2019: 0.17 J µg/L
5/22/2019: ND (< 1.0 µg/L)

MW-72S (3-13 FT)
12/17/2018: ND (< 1.0 µg/L)
3/5/2019: 0.20 J µg/L
5/8/2018: ND (< 1.0 µg/L)

MW-72 (15-20 FT)
8/10/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)

MW-85 (8-13 FT)
8/8/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)

MW-136S (2-7 FT)
2/19/2019: ND (< 1.0 µg/L)
5/22/2019: ND (< 1.0 µg/L)

MW-107S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 J µg/L)
5/10/2019: ND (< 1.0 µg/L)

MW-82D (18-23 FT)
8/8/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)

MW-141S (3-8 FT)
2/27/2019: ND (< 1.0 J µg/L)
5/15/2019: ND (< 1.0 µg/L)

MW-137S (2-7 FT)
2/23/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)

CAPITOL ST

MW-79D (10-15 FT)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)
5/15/2019: ND (< 1.0 µg/L)

MW-73SR (2.5-12.5 FT)
12/17/2018: 0.29 J µg/L
3/4/2019: 0.23 J µg/L
5/8/2019: ND (< 1.0 µg/L)

MW-80SR (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)
5/10/2019: ND (< 1.0 µg/L)

MW-82SR (5-15 FT)
12/26/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 U B µg/L)
5/17/2019: ND (< 1.0 µg/L)

MW-133S (4-9 FT)
2/14/2019: ND (< 1.0 µg/L)
5/23/2019: ND (< 1.0 µg/L)

MW-73D (13.5-18.5 FT)
8/10/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/4/2019: 0.19 J µg/L
5/8/2019: ND (< 1.0 µg/L)

MW-79SR (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
5/15/2019: ND (< 1.0 µg/L)

MW-140S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)

MW-139S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)

MW-138S (2-7 FT)
2/19/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)

MW-192S
4/11/2019: ND (< 1.0 µg/L)

MW-134S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)
5/20/2019: ND (< 1.0 µg/L)

MW-135S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)
5/20/2019: ND (< 1.0 µg/L)

MW-74 (14-19 FT)
8/9/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/8/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)

MW-74S (3-13 FT)
12/21/2018: ND (< 1.0 µg/L)
3/8/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)

BEACON ST

MW-98S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)
5/10/2019: ND (< 1.0 µg/L)

STARK RD

MW-84S (2.5-12.5 FT)
12/21/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)

MW-78 (7-12 FT)
8/6/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
12/19/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)

MW-78S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)

MW-106S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 J µg/L)
5/16/2019: ND (< 1.0 µg/L)

MW-99S (3-13 FT)
12/21/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)

MW-84 (8-13 FT)
8/6/2018: 0.14 J µg/L
10/23/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)

BELDEN CT

MW-96S (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)

MW-81 (8-13 FT)
8/9/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)

MW-81S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)

WADSWORTH ST

MW-75D (12-17 FT)
8/9/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)
5/15/2019: ND (< 1.0 µg/L)

MW-77S (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/4/2019: 0.22 J µg/L
5/16/2019: ND (< 1.0 µg/L)

MW-77 (9-14 FT)
8/6/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/4/2019: 0.17 J µg/L
5/16/2018: ND (< 1.0 µg/L)

MW-86 (12-17 FT)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)

MW-75SR (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)

MW-97S (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)
5/10/2019: ND (< 1.0 µg/L)

MW-86S (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)

MW-87 (14-19 FT)
8/6/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
12/21/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)

MW-100S (3-13 FT)
12/18/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 J µg/L)
5/9/2019: ND (< 1.0 µg/L)

MW-87S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)

BOSTON POST ST

PRISCILLA LN

MW-101S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/6/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)

MW-76 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)

MW-76S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)

PLYMOUTH RD

WAYNE RD

LAUREL ST

LEGEND

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY
- OFF-SITE MONITORING WELL TRICHLOROETHENE ≤ 1.0 µg/L

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, OCTOBER/DECEMBER 2018, FEBRUARY/ MARCH 2019 AND APRIL/MAY 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

THE PUBLISHED 2016 MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY REMEDIATION AND REDEVELOPMENT DIVISION TARGET DETECTION LIMIT FOR TRICHLOROETHENE IS 1.0 µg/L.

FT = FEET BELOW GROUND SURFACE

J = ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT.

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TRICHLOROETHENE.

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

MW = MONITORING WELL

NS = NOT SAMPLED

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE MONITORING WELLS TRICHLOROETHENE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE
10

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: P. CURRY PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\FordLivonia\GIS\docs\GEC\2Q_2019\Figure 10_Off-Site GWA TCE.mxd PLOTTED: 7/22/2019 10:43:17 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-102 (10-15 FT)
12/19/2018: 1.6 µg/L
2/25/2019: 1.7 µg/L
5/17/2019: 1.8 µg/L

MW-102S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)

MW-131S (2.5-12.5 FT)
12/26/2018: 0.98 J µg/L
2/26/2019: 0.69 J µg/L
5/14/2019: 0.85 J µg/L

MW-132S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)

MW-142S (2.5-7.5 FT)
2/25/2019: ND (< 1.0 µg/L)
5/23/2019: ND (< 1.0 µg/L)

MW-83 (8-13 FT)
8/8/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
3/5/2019: ND (< 1.0 µg/L)
5/22/2019: ND (< 1.0 µg/L)

MW-72S (3-13FT)
12/17/2018: ND (< 1.0 µg/L)
3/5/2019: 0.24 J µg/L
5/8/2019: ND (< 1.0 µg/L)

MW-72 (15-20 FT)
8/10/2018: 1.2 µg/L
10/22/2018: 1.1 µg/L
3/5/2019: 1.9 µg/L
5/17/2019: 1.7 µg/L

MW-105S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/25/2019: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)

MW-85 (8-13 FT)
8/8/2018: 7.2 µg/L
10/22/2018: 5.5 µg/L
2/26/2019: 5.5 µg/L
5/17/2019: 5.4 µg/L

MW-85SR (2.5-12.5 FT)
4/12/2019: 2.2 µg/L

MW-108S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
5/14/2019: ND (< 1.0 µg/L)

MW-83S (3-13 FT)
12/26/2018: ND (< 1.0 µg/L)
3/5/2019: 0.27 J µg/L
5/22/2019: ND (< 1.0 µg/L)

ROSATI AVE

MW-141S (3-8 FT)
2/27/2019: ND (< 1.0 µg/L)
5/15/2019: ND (< 1.0 µg/L)

MW-137S (2-7 FT)
2/23/2019: ND (< 1.0 µg/L)
5/13/2019: 0.91 J µg/L

MW-136S (2-7 FT)
2/19/2019: ND (< 1.0 µg/L)
5/22/2019: ND (< 1.0 µg/L)

MW-107S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
5/10/2019: ND (< 1.0 µg/L)

MW-82D (18-23 FT)
8/8/2018: ND (< 1.0 J µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/6/2019: 0.78 J µg/L
5/17/2019: ND (< 1.0 µg/L)

MW-73SR (2.5-12.5 FT)
12/17/2018: 1.7 µg/L
3/4/2019: 1.5 µg/L
5/8/2019: ND (< 1.0 µg/L)

MW-79SR (2.5-12.5 FT)
12/19/2018: 0.56 J µg/L
3/1/2019: 0.53 J µg/L
5/15/2019: 0.36 J µg/L

MW-79D (10-15 FT)
8/6/2018: 2.8 µg/L
10/24/2018: 1.3µg/L
3/7/2019: 1.6 µg/L
5/15/2019: 2.6 µg/L

MW-80SR (2.5-12.5 FT)
12/27/2018: 1.4 µg/L
3/6/2019: 2.1 µg/L
5/10/2019: 3.2 µg/L

CAPITOL ST

MW-133S (4-9 FT)
2/14/2019: ND (< 1.0 µg/L)
5/23/2019: ND (< 1.0 µg/L)

MW-82SR (5-15 FT)
12/26/2018: ND (< 1.0 µg/L)
3/5/2019: 0.27 J µg/L
5/17/2019: ND (< 1.0 µg/L)

STARK RD

MW-73D (13.5-18.5 FT)
8/10/2018: 0.75 J µg/L
10/22/2018: ND (< 1.0 µg/L)
3/4/2019: 0.71 J µg/L
5/8/2019: ND (< 1.0 µg/L)

MW-74 (14-19 FT)
8/9/2018: 2.8 µg/L
10/22/2018: 2.2 µg/L
3/8/2019: 1.1 µg/L
5/17/2019: ND (< 1.0 µg/L)

MW-140S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)

MW-98S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
3/6/2019: 0.43 J µg/L
5/10/2019: ND (< 1.0 µg/L)

MW-138S (2-7 FT)
2/19/2019: 1.7 µg/L
5/16/2019: 1.6 µg/L

MW-134S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)
5/20/2019: ND (< 1.0 µg/L)

MW-139S (2-7 FT)
2/26/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)

MW-78 (7-12 FT)
8/6/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
12/19/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)

MW-74S (3-13 FT)
12/21/2018: ND (< 1.0 µg/L)
3/8/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)

BEACON ST

MW-84S (2.5-12.5 FT)
12/21/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)

MW-84 (8-13 FT)
8/6/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)

MW-78S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/26/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)

MW-192S
4/11/2019: ND (< 1.0 µg/L)

MW-106S (2.5-12.5 FT)
12/19/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)

MW-81 (8-13 FT)
8/9/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
3/6/2019: 0.69 J µg/L
5/17/2019: ND (< 1.0 µg/L)

MW-99S (3-13FT)
12/21/2018: ND (< 1.0 µg/L)
3/7/2019: 0.28 J µg/L
5/9/2019: ND (< 1.0 µg/L)

BELDEN CT

MW-86 (12-17 FT)
8/6/2018: ND (< 1.0 µg/L)
10/24/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)

MW-96S (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
2/27/2019: ND (< 1.0 µg/L)
5/16/2019: ND (< 1.0 µg/L)

MW-135S (5-10 FT)
2/14/2019: ND (< 1.0 µg/L)
5/20/2019: ND (< 1.0 µg/L)

BOSTON POST ST

MW-75D (12-17 FT)
8/9/2018: 1.8 µg/L
10/22/2018: 1.7 µg/L
3/7/2019: 1.6 µg/L
5/15/2019: 1.7 µg/L

MW-77 (9-14 FT)
8/6/2018: 0.24 J µg/L
10/23/2018: ND (< 1.0 µg/L)
3/4/2019: 0.48 J µg/L
5/16/2019: 0.24 J µg/L

WADSWORTH ST

MW-75SR (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
3/7/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)

MW-86S (2.5-12.5 FT)
12/18/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)

MW-77S (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/4/2019: 0.20 J µg/L
5/16/2019: ND (< 1.0 µg/L)

MW-97S (2.5-12.5 FT)
12/27/2018: ND (< 1.0 µg/L)
3/6/2019: 0.42 J µg/L
5/10/2019: ND (< 1.0 µg/L)

MW-81S (2.5-12.5 FT)
12/26/2018: ND (< 1.0 µg/L)
3/6/2019: 0.66 J µg/L
5/17/2019: ND (< 1.0 µg/L)

MW-100S (3-13 FT)
12/18/2018: 0.22 J µg/L
2/27/2019: ND (< 1.0 µg/L)
5/9/2019: ND (< 1.0 µg/L)

STANDISH ST

MW-87S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
5/13/2019: ND (< 1.0 µg/L)

MW-87 (14-19 FT)
8/6/2018: ND (< 1.0 µg/L)
10/23/2018: ND (< 1.0 µg/L)
12/21/2018: ND (< 1.0 µg/L)
2/28/2019: ND (< 1.0 µg/L)
5/21/2019: ND (< 1.0 µg/L)

PRISCILLA LN

MW-101S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/6/2019: 0.58 J µg/L
5/8/2019: ND (< 1.0 µg/L)

MW-76S (4.5-14.5 FT)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
5/8/2019: ND (< 1.0 µg/L)

MW-76 (15-20 FT)
8/9/2018: ND (< 1.0 µg/L)
10/22/2018: ND (< 1.0 µg/L)
12/21/2018: ND (< 1.0 µg/L)
3/1/2019: ND (< 1.0 µg/L)
5/17/2019: ND (< 1.0 µg/L)

PLYMOUTH RD

WAYNE RD

LAUREL ST

LEGEND

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY
- OFF-SITE MONITORING WELL VINYL CHLORIDE ≤ 1.0 µg/L
- OFF-SITE MONITORING WELL VINYL CHLORIDE > 1.0 µg/L
- **BLUE/BOLD TEXT** EXCEEDANCE OF THE TDL FROM PAST AND PRESENT SAMPLING EVENTS

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, OCTOBER/DECEMBER 2018, FEBRUARY/ MARCH 2019 AND APRIL/MAY 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/L - MICROGRAMS PER LITER (PARTS PER BILLION)

≤ - LESS THAN OR EQUAL TO

> - GREATER THAN

TDL - TARGET DETECTION LIMIT

THE PUBLISHED 2016 THE MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY REMEDIATION AND REDEVELOPMENT DIVISION TARGET DETECTION LIMIT FOR VINYL CHLORIDE IS 1.0 µg/L.

FT = FEET BELOW GROUND SURFACE

J = ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT.

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR VINYL CHLORIDE.

MW = MONITORING WELL

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

BLUE BOX INDICATES EXCEEDANCE OF THE TARGET DETECTION LIMIT FOR VINYL CHLORIDE ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE MONITORING WELLS VINYL CHLORIDE IN GROUNDWATER

ARCADIS Design & Consultancy for natural and built assets

FIGURE 11

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K.HINSKEY TM: R. WISMAN TR: P. CURRY PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\2Q_2019\Figure 11_Off-Site GWA VC.mxd PLOTTED: 7/23/2019 1:10:33 AM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

SVMP-25S (3.0 FT)
8/23/2018: ND (< 5.0 µg/m³)
11/6/2018: ND (< 4.6 µg/m³)
3/21/2019: ND (< 5.0 µg/m³)
6/24/2019: ND (< 5.1 µg/m³)

SVMP-25D (6.0 FT)
8/23/2018: ND (< 4.7 µg/m³)
11/6/2018: ND (< 4.7 µg/m³)
3/21/2019: ND (< 5.2 µg/m³)
6/24/2019: ND (< 4.9 µg/m³)

SVMP-26 (4.0 FT)
8/23/2018: 14 µg/m³
11/6/2018: ND (< 4.9 µg/m³)
3/21/2019: ND (< 5.0 µg/m³)

SVMP-27 (4.5 FT)
8/23/2018: ND (< 5.0 µg/m³)
11/6/2018: ND (< 4.5 µg/m³)
3/21/2019: ND (< 5.0 µg/m³)
6/24/2019: ND (< 4.9 µg/m³)

SVMP-28 (3.0 FT)
8/23/2018: ND (< 4.7 µg/m³)
11/6/2018: ND (< 4.7 µg/m³)
3/21/2019: ND (< 5.0 µg/m³)
6/24/2019: ND (< 5.1 µg/m³)

SVMP-32 (3.0 FT)

SVMP-32 (6.0 FT)

SVMP-33 (4.0 FT)

SVMP-34 (4.0 FT)

SVMP-08 (3.5 FT)
8/23/2018: ND (< 4.8 µg/m³)
11/5/2018: ND (< 4.6 µg/m³)
3/5/2019: ND (< 4.8 µg/m³)
6/24/2019: ND (< 5.5 µg/m³)

SVMP-09 (4.0 FT)
8/23/2018: ND (< 4.9 µg/m³)
11/5/2018: ND (< 4.4 µg/m³)
3/5/2019: ND (< 4.7 µg/m³)
6/24/2019: ND (< 5.3 µg/m³)

SVMP-10 (3.0 FT)
8/23/2018: ND (< 4.9 µg/m³)
11/5/2018: ND (< 4.7 µg/m³)

SVMP-14 (2.0 FT)
8/24/2018: ND (< 4.7 µg/m³)
3/5/2019: ND (< 5.3 µg/m³)

SVMP-06 (4.5 FT)
8/23/2018: ND (< 4.6 µg/m³)
11/5/2018: ND (< 4.4 µg/m³)
3/21/2019: ND (< 4.9 µg/m³)
6/24/2019: ND (< 5.1 µg/m³)

SVMP-07 (3.5 FT)
8/23/2018: ND (< 4.7 µg/m³)
11/5/2018: ND (< 4.8 µg/m³)
3/4/2019: ND (< 4.5 µg/m³)
6/24/2019: ND (< 5.2 µg/m³)

SVMP-31 (5.5 FT)

SVMP-35 (4.0 FT)

SVMP-30 (4.0 FT)

SVMP-29 (7.5 FT)

SVMP-29 (3.5 FT)

SVMP-01D (7.0 FT)
8/22/2018: ND (< 4.7 µg/m³)
11/6/2018: ND (< 4.5 µg/m³)
3/4/2019: ND (< 4.6 µg/m³)
6/25/2019: ND (< 5.0 µg/m³)

SVMP-01S (3.5 FT)
8/22/2018: ND (< 4.8 µg/m³)
11/6/2018: ND (< 4.6 µg/m³)
3/4/2019: ND (< 4.5 µg/m³)
6/25/2019: ND (< 4.9 µg/m³)

SVMP-02S (4.5 FT)
8/22/2018: ND (< 5.0 µg/m³)
11/7/2018: ND (< 4.6 µg/m³)
3/21/2019: ND (< 4.7 µg/m³)
6/25/2019: ND (< 5.2 µg/m³)

SVMP-02D (8.5 FT)
8/22/2018: ND (< 4.9 µg/m³)
11/7/2018: ND (< 4.6 µg/m³)
3/5/2019: ND (< 4.8 µg/m³)
6/25/2019: ND (< 5.2 µg/m³)

SVMP-03S (3.5 FT)
8/22/2018: ND (< 4.6 µg/m³)
11/7/2018: ND (< 4.5 µg/m³)
6/25/2019: ND (< 5.5 µg/m³)

SVMP-03D (7.0 FT)
8/22/2018: ND (< 4.6 µg/m³)
11/7/2018: ND (< 4.4 µg/m³)
3/21/2019: ND (< 4.8 µg/m³)
6/25/2019: ND (< 5.4 µg/m³)

SVMP-22 (3.0 FT)
8/21/2018: ND (< 4.7 µg/m³)
11/5/2018: ND (< 4.7 µg/m³)
3/5/2019: ND (< 4.8 µg/m³)
6/25/2019: ND (< 4.9 µg/m³)

SVMP-12 (3.5 FT)
8/23/2018: ND (< 4.7 µg/m³)
11/6/2018: ND (< 4.8 µg/m³)
3/21/2019: ND (< 4.8 µg/m³)
6/24/2019: ND (< 5.0 µg/m³)

SVMP-13 (2.0 FT)
8/24/2018: ND (< 4.8 µg/m³)

SVMP-15 (2.0 FT)
8/24/2018: ND (< 4.8 µg/m³)

SVMP-16 (2.0 FT)
8/24/2018: ND (< 5.0 µg/m³)

SVMP-05 (4.5 FT)
8/23/2018: ND (< 4.6 µg/m³)
11/5/2018: ND (< 4.6 µg/m³)
3/21/2019: ND (< 5.0 µg/m³)
6/25/2019: ND (< 5.2 µg/m³)

SVMP-04 (3.5 FT)
8/23/2018: ND (< 4.9 µg/m³)
11/5/2018: ND (< 5.1 µg/m³)
3/5/2019: ND (< 5.9 µg/m³)
6/25/2019: ND (< 4.9 µg/m³)

SVMP-23 (3.0 FT)
8/22/2018: ND (< 4.6 µg/m³)
11/5/2018: ND (< 4.5 µg/m³)
6/25/2019: ND (< 4.5 µg/m³)

SVMP-24 (4.0 FT)
8/22/2018: ND (< 4.7 µg/m³)
11/5/2018: ND (< 4.5 µg/m³)
3/21/2019: ND (< 4.8 µg/m³)
6/25/2019: ND (< 4.7 µg/m³)

SVMP-19 (3.0 FT)
8/22/2018: ND (< 4.5 µg/m³)
3/5/2019: ND (< 4.8 µg/m³)

SVMP-36 (4.0 FT)

SVMP-18 (3.0 FT)
8/22/2018: ND (< 5.1 µg/m³)
11/7/2018: ND (< 4.6 µg/m³)
3/5/2019: ND (< 5.6 µg/m³)
6/25/2019: ND (< 5.2 µg/m³)

SVMP-20 (3.0 FT)
8/22/2018: ND (< 4.7 µg/m³)

SVMP-21 (2.0 FT)
8/24/2018: ND (< 4.8 µg/m³)
3/5/2019: ND (< 5.2 µg/m³)
6/25/2019: ND (< 5.0 µg/m³)

SVMP-37 (2.5 FT)

SVMP-17 (2.0 FT)
8/24/2018: ND (< 4.9 µg/m³)
3/5/2019: ND (< 4.9 µg/m³)
6/24/2019: ND (< 5.1 µg/m³)

ROSATI AVE
CONCORD ST
CAPITOL ST
STARK RD
BEACON ST
BREWSTER ST
WADSWORTH ST
BOSTON POST ST
STANDISH ST
PRISCILLA LN
BELDEN CT
WAYNE RD
LAUREL ST
PLYMOUTH RD

LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP CIS-1,2-DICHLOROETHENE < 280 µg/m³
- OFF-SITE SVMP NOT SAMPLED FOR CIS-1,2-DICHLOROETHENE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, NOVEMBER 2018, MARCH 2019 AND JUNE 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

$\mu g/m_3$ - MICROGRAMS PER CUBIC METER

THE EGLE PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR CIS-1,2-DICHLOROETHENE IS 280 $\mu g/m._3$

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

FT = FEET BELOW GROUND SURFACE

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR CIS-1,2-DICHLOROETHENE.

SVMP = SOIL VAPOR MONITORING POINT

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE AUGUST 2018, NOVEMBER 2018, MARCH 2019 OR JUNE 2019 SAMPLING EVENTS.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.

SVMP-13 THROUGH SVMP-17, AND SVMP-19 THROUGH SVMP-21 WERE NOT SAMPLED DURING THE NOVEMBER 2018 SAMPLING EVENT DUE TO SATURATED SCREENS.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, AND SVMP-23 WERE NOT SAMPLED DURING THE MARCH 2019 SAMPLING EVENT DUE TO SATURATED SCREENS.SVMP-03S WAS NOT SAMPLED DURING MARCH 2019 SAMPLING EVENT DUE TO TECHNICAL DIFFICULTIES WITH THE CANISTER.

SVMP-10, SVMP-13, SVMP-14, SVMP-15, SVMP-16, SVMP-19, AND SVMP-20 WERE NOT SAMPLED DURING THE JUNE 2019 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-26 WAS CANCELLED DUE TO HIGH CANISTER VACUUM READINGS.

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT CIS-1,2-DICHLOROETHENE IN SOIL VAPOR

ARCADIS Design & Consultancy for natural and built assets

FIGURE 12

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: M.WACKSMAN PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MIFord\Livonia\GIS\docs\GEC\2Q_2019\Figure 12_Off-Site SVMP cis-DCE.mxd PLOTTED: 7/28/2019 10:41:40 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

SVMP-25S (3.0 FT)
8/23/2018: ND (< 8.5 µg/m^3)
11/6/2018: 1.6 J µg/m^3
3/21/2019: ND (< 8.5 µg/m^3)
6/24/2019: 4.1 J µg/m^3

SVMP-25D (6.0 FT)
8/23/2018: ND (< 8.1 µg/m^3)
11/6/2018: 2.5 J µg/m^3
3/21/2019: ND (< 8.8 µg/m^3)
6/24/2019: 1.4 J µg/m^3

SVMP-26 (4.0 FT)
8/23/2018: ND (< 8.0 µg/m^3)
11/6/2018: ND (< 8.4 µg/m^3)
3/21/2019: ND (< 8.5 µg/m^3)

SVMP-27 (4.5 FT)
8/23/2018: ND (< 8.5 µg/m^3)
11/6/2018: ND (< 7.6 µg/m^3)
3/21/2019: ND (< 8.5 µg/m^3)
6/24/2019: ND (< 8.4 µg/m^3)

SVMP-28 (3.0 FT)
8/23/2018: 8.9 µg/m^3
11/6/2018: ND (< 8.1 µg/m^3)
3/21/2019: ND (< 8.5 µg/m^3)
6/24/2019: 1.3 J µg/m^3

SVMP-22 (3.0 FT)
8/21/2018: ND (< 8.0 µg/m^3)
11/5/2018: ND (< 8.1 µg/m^3)
3/5/2019: ND (< 8.3 µg/m^3)
6/25/2019: ND (< 8.4 µg/m^3)

SVMP-23 (3.0 FT)
8/22/2018: ND (< 7.9 µg/m^3)
11/5/2018: ND (< 7.7 µg/m^3)
6/25/2019: ND (< 7.8 µg/m^3)

SVMP-24 (4.0 FT)
8/22/2018: ND (< 8.1 µg/m^3)
11/5/2018: ND (< 7.8 µg/m^3)
3/21/2019: ND (< 8.2 µg/m^3)
6/25/2019: ND (< 8.1 µg/m^3)

SVMP-19 (3.0 FT)
8/22/2018: ND (< 7.7 µg/m^3)
3/5/2019: ND (< 8.3 µg/m^3)

SVMP-36 (4.0 FT)

SVMP-18 (3.0 FT)
8/22/2018: ND (< 8.8 µg/m^3)
11/7/2018: ND (< 7.8 µg/m^3)
3/5/2019: ND (< 9.6 µg/m^3)
6/25/2019: ND (< 9.0 µg/m^3)

SVMP-12 (3.5 FT)
8/23/2018: ND (< 8.0 µg/m^3)
11/6/2018: ND (< 8.2 µg/m^3)
3/21/2019: ND (< 8.2 µg/m^3)
6/24/2019: ND (< 8.5 µg/m^3)

SVMP-34 (4.0 FT)

SVMP-32 (3.0 FT)

SVMP-32 (6.0 FT)

SVMP-33 (4.0 FT)

SVMP-21 (2.0 FT)
8/24/2018: ND (< 8.2 µg/m^3)
3/5/2019: ND (< 8.8 µg/m^3)
6/25/2019: ND (< 8.5 µg/m^3)

SVMP-20 (3.0 FT)
8/22/2018: ND (< 8.0 µg/m^3)

SVMP-37 (2.5 FT)

SVMP-17 (2.0 FT)
8/24/2018: ND (< 8.4 µg/m^3)
3/5/2019: ND (< 8.3 µg/m^3)
6/24/2019: ND (< 8.8 µg/m^3)

SVMP-13 (2.0 FT)
8/24/2018: ND (< 8.2 µg/m^3)

SVMP-15 (2.0 FT)
8/24/2018: ND (< 8.2 µg/m^3)

SVMP-16 (2.0 FT)
8/24/2018: ND (< 8.5 µg/m^3)

SVMP-08 (3.5 FT)
8/23/2018: ND (< 8.2 µg/m^3)
11/5/2018: ND (< 7.9 µg/m^3)
3/5/2019: ND (< 8.2 µg/m^3)
6/24/2019: ND (< 9.4 µg/m^3)

SVMP-09 (4.0 FT)
8/23/2018: ND (< 8.4 µg/m^3)
11/5/2018: ND (< 7.5 µg/m^3)
3/5/2019: ND (< 8.1 µg/m^3)
6/24/2019: ND (< 9.1 µg/m^3)

SVMP-10 (3.0 FT)
8/23/2018: ND (< 8.4 µg/m^3)
11/5/2018: ND (< 8.1 µg/m^3)

SVMP-14 (2.0 FT)
8/24/2018: ND (< 8.1 µg/m^3)
3/5/2019: ND (< 9.0 µg/m^3)

SVMP-06 (4.5 FT)
8/23/2018: ND (< 7.8 µg/m^3)
11/5/2018: ND (< 7.6 µg/m^3)
3/21/2019: ND (< 8.4 µg/m^3)
6/24/2019: ND (< 8.8 µg/m^3)

SVMP-05 (4.5 FT)
8/23/2018: ND (< 7.8 µg/m^3)
11/5/2018: ND (< 7.8 µg/m^3)
3/21/2019: ND (< 8.5 µg/m^3)
6/25/2019: ND (< 9.0 µg/m^3)

SVMP-04 (3.5 FT)
8/23/2018: ND (< 8.4 µg/m^3)
11/5/2018: ND (< 8.7 µg/m^3)
3/5/2019: ND (< 10 µg/m^3)
6/25/2019: ND (< 8.4 µg/m^3)

SVMP-07 (3.5 FT)
8/23/2018: ND (< 8.1 µg/m^3)
11/5/2018: ND (< 8.1 µg/m^3)
3/4/2019: ND (< 7.7 µg/m^3)
6/24/2019: ND (< 9.0 µg/m^3)

SVMP-31 (5.5 FT)

SVMP-35 (4.0 FT)

SVMP-29 (3.5 FT)

SVMP-29 (7.5 FT)

SVMP-02S (4.5 FT)
8/22/2018: ND (< 8.5 µg/m^3)
11/6/2018: ND (< 7.8 µg/m^3)
3/21/2019: ND (< 8.1 µg/m^3)
6/25/2019: ND (< 8.8 µg/m^3)

SVMP-30 (4.0 FT)

SVMP-01D (7.0 FT)
8/22/2018: ND (< 8.1 µg/m^3)
11/6/2018: ND (< 7.7 µg/m^3)
3/4/2019: ND (< 8.0 µg/m^3)
6/25/2019: ND (< 8.5 µg/m^3)

SVMP-03D (7.0 FT)
8/22/2018: ND (< 7.8 µg/m^3)
11/7/2018: ND (< 7.5 µg/m^3)
3/21/2019: ND (< 8.3 µg/m^3)
6/25/2019: ND (< 9.3 µg/m^3)

SVMP-01S (3.5 FT)
8/22/2018: ND (< 8.3 µg/m^3)
11/6/2018: ND (< 7.9 µg/m^3)
3/4/2019: ND (< 7.7 µg/m^3)
6/25/2019: ND (< 8.4 µg/m^3)

SVMP-02D (8.5 FT)
8/22/2018: ND (< 8.4 µg/m^3)
11/7/2018: ND (< 7.9 µg/m^3)
3/5/2019: ND (< 8.1 µg/m^3)
6/25/2019: ND (< 9.0 µg/m^3)

SVMP-03S (3.5 FT)
8/22/2018: ND (< 7.8 µg/m^3)
11/7/2018: ND (< 7.7 µg/m^3)
6/25/2019: ND (< 9.4 µg/m^3)

ROSATI AVE
CONCORD ST
CAPITOL ST
STARK RD
BEACON ST
BREWSTER ST
WADSWORTH ST
BOSTON POST ST
BELDEN CT
PRISCILLA LN
PLYMOUTH RD
WAYNE RD
LAUREL ST

LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP TETRACHLOROETHENE < 1,400 µg/m^3
- OFF-SITE SVMP NOT SAMPLED FOR TETRACHLOROETHENE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, NOVEMBER 2018, MARCH 2019 AND JUNE 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/m$_3$ - MICROGRAMS PER CUBIC METER

THE EGLE PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR TETRACLOROETHENE IS 1,400 µg/m$_3$

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

FT = FEET BELOW GROUND SURFACE

J = REPORTED VALUE IS ESTIMATED

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TETRACHLOROETHENE.

SVMP = SOIL VAPOR MONITORING POINT

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE AUGUST 2018, NOVEMBER 2018, MARCH 2019 OR JUNE 2019 SAMPLING EVENTS.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.

SVMP-13 THROUGH SVMP-17, AND SVMP-19 THROUGH SVMP-21 WERE NOT SAMPLED DURING THE NOVEMBER 2018 SAMPLING EVENT DUE TO SATURATED SCREENS.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, AND SVMP-23 WERE NOT SAMPLED DURING THE MARCH 2019 SAMPLING EVENT DUE TO SATURATED SCREENS.SVMP-03S WAS NOT SAMPLED DURING MARCH 2019 SAMPLING EVENT DUE TO TECHNICAL DIFFICULTIES WITH THE CANISTER.

SVMP-10, SVMP-13, SVMP-14, SVMP-15, SVMP-16, SVMP-19, AND SVMP-20 WERE NOT SAMPLED DURING THE JUNE 2019 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-26 WAS CANCELLED DUE TO HIGH CANISTER VACUUM READINGS.

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT TETRACHLOROETHENE IN SOIL VAPOR

ARCADIS Design & Consultancy for natural and built assets

FIGURE
13

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: M.WACKSMAN PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\Novi\Brighton_MI\Ford\Livonia\GIS\docs\GEC\2Q_2019\Figure 13 - Off-Site SVMP PCE.mxd PLOTTED: 7/28/2019 10:40:56 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

SVMP-25S (3.0 FT)
8/23/2018: ND (< 6.7 µg/m^3)
11/6/2018: ND (< 6.2 µg/m^3)
3/21/2019: ND (< 6.7 µg/m^3)
6/24/2019: 1.3 J µg/m^3

SVMP-25D (6.0 FT)
8/23/2018: ND (< 6.4 µg/m^3)
11/6/2018: ND (< 6.4 µg/m^3)
3/21/2019: ND (< 7.0 µg/m^3)
6/24/2019: ND (< 6.6 µg/m^3)

SVMP-22 (3.0 FT)
8/21/2018: ND (< 6.3 µg/m^3)
11/5/2018: ND (< 6.4 µg/m^3)
3/5/2019: ND (< 6.6 µg/m^3)
6/25/2019: ND (< 6.6 µg/m^3)

SVMP-23 (3.0 FT)
8/22/2018: ND (< 6.3 µg/m^3)
11/5/2018: ND (< 6.1 µg/m^3)
6/25/2019: ND (< 6.2 µg/m^3)

SVMP-24 (4.0 FT)
8/22/2018: 6.9 µg/m^3
11/5/2018: ND (< 6.2 µg/m^3)
3/21/2019: ND (< 6.5 µg/m^3)
6/25/2019: ND (< 6.4 µg/m^3)

ROSATI AVE

CONCORD ST

SVMP-19 (3.0 FT)
8/22/2018: ND (< 6.1 µg/m^3)
3/5/2019: ND (< 6.6 µg/m^3)

SVMP-36 (4.0 FT)

SVMP-18 (3.0 FT)
8/22/2018: ND (< 6.9 µg/m^3)
11/7/2018: ND (< 6.2 µg/m^3)
3/5/2019: ND (< 7.6 µg/m^3)
6/25/2019: ND (< 7.1 µg/m^3)

SVMP-26 (4.0 FT)
8/23/2018: 24 µg/m^3
11/6/2018: ND (< 6.7 µg/m^3)
3/21/2019: ND (< 6.8 µg/m^3)

SVMP-20 (3.0 FT)
8/22/2018: ND (< 6.3 µg/m^3)

CAPITOL ST

SVMP-12 (3.5 FT)
8/23/2018: ND (< 6.4 µg/m^3)
11/6/2018: ND (< 6.5 µg/m^3)
3/21/2019: ND (< 6.5 µg/m^3)
6/24/2019: ND (< 6.8 µg/m^3)

SVMP-21 (2.0 FT)
8/24/2018: ND (< 6.5 µg/m^3)
3/5/2019: ND (< 7.0 µg/m^3)
6/25/2019: ND (< 6.8 µg/m^3)

SVMP-16 (2.0 FT)
8/24/2018: ND (< 6.8 µg/m^3)

SVMP-34 (4.0 FT)

SVMP-33 (4.0 FT)

SVMP-32 (3.0 FT)

SVMP-14 (2.0 FT)
8/24/2018: ND (< 6.4 µg/m^3)
3/5/2019: ND (< 7.2 µg/m^3)

STARK RD

SVMP-37 (2.5 FT)

SVMP-10 (3.0 FT)
8/23/2018: ND (< 6.6 µg/m^3)
11/5/2018: ND (< 6.4 µg/m^3)

SVMP-32 (6.0 FT)

BEACON ST

SVMP-27 (4.5 FT)
8/23/2018: ND (< 6.7 µg/m^3)
11/6/2018: ND (< 6.0 µg/m^3)
3/21/2019: ND (< 6.7 µg/m^3)
6/24/2019: ND (< 6.6 µg/m^3)

SVMP-15 (2.0 FT)
8/24/2018: ND (< 6.5 µg/m^3)

SVMP-17 (2.0 FT)
8/24/2018: ND (< 6.6 µg/m^3)
3/5/2019: ND (< 6.6 µg/m^3)
6/24/2019: ND (< 6.9 µg/m^3)

SVMP-08 (3.5 FT)
8/23/2018: ND (< 6.5 µg/m^3)
11/5/2018: ND (< 6.3 µg/m^3)
3/5/2019: ND (< 6.5 µg/m^3)
6/24/2019: ND (< 7.4 µg/m^3)

SVMP-09 (4.0 FT)
8/23/2018: ND (< 6.6 µg/m^3)
11/5/2018: ND (< 5.9 µg/m^3)
3/5/2019: ND (< 6.4 µg/m^3)
6/24/2019: ND (< 7.2 µg/m^3)

SVMP-13 (2.0 FT)
8/24/2018: ND (< 6.5 µg/m^3)

BOSTON POST ST

SVMP-04 (3.5 FT)
8/23/2018: ND (< 6.6 µg/m^3)
11/5/2018: ND (< 6.9 µg/m^3)
3/5/2019: ND (< 8.1 µg/m^3)
6/25/2019: ND (< 6.6 µg/m^3)

BREWSTER ST

BELDEN CT

SVMP-05 (4.5 FT)
8/23/2018: ND (< 6.2 µg/m^3)
11/5/2018: ND (< 6.2 µg/m^3)
3/21/2019: ND (< 6.8 µg/m^3)
6/25/2019: ND (< 7.1 µg/m^3)

SVMP-07 (3.5 FT)
8/23/2018: ND (< 6.4 µg/m^3)
11/5/2018: ND (< 6.4 µg/m^3)
3/4/2019: ND (< 6.1 µg/m^3)
6/24/2019: ND (< 7.1 µg/m^3)

SVMP-06 (4.5 FT)
8/23/2018: ND (< 6.2 µg/m^3)
11/5/2018: ND (< 6.0 µg/m^3)
3/21/2019: ND (< 6.7 µg/m^3)
6/24/2019: ND (< 6.9 µg/m^3)

SVMP-30 (4.0 FT)

WADSWORTH ST

SVMP-28 (3.0 FT)
8/23/2018: ND (< 6.3 µg/m^3)
11/6/2018: ND (< 6.4 µg/m^3)
3/21/2019: ND (< 6.7 µg/m^3)
6/24/2019: ND (< 6.9 µg/m^3)

SVMP-35 (4.0 FT)

SVMP-31 (5.5 FT)

SVMP-29 (7.5 FT)

SVMP-02S (4.5 FT)
8/22/2018: ND (< 6.8 µg/m^3)
11/7/2018: ND (< 6.2 µg/m^3)
3/21/2019: ND (< 6.4 µg/m^3)
6/25/2019: ND (< 7.0 µg/m^3)

SVMP-03S (3.5 FT)
8/22/2018: ND (< 6.2 µg/m^3)
11/7/2018: ND (< 6.1 µg/m^3)
6/25/2019: ND (< 7.4 µg/m^3)

SVMP-29 (3.5 FT)

STANDISH ST

SVMP-01S (3.5 FT)
8/22/2018: ND (< 6.6 µg/m^3)
11/6/2018: ND (< 6.3 µg/m^3)
3/4/2019: ND (< 6.1 µg/m^3)
6/25/2019: ND (< 6.6 µg/m^3)

SVMP-03D (7.0 FT)
8/22/2018: ND (< 6.2 µg/m^3)
11/7/2018: ND (< 6.0 µg/m^3)
3/21/2019: ND (< 6.6 µg/m^3)
6/25/2019: ND (< 7.4 µg/m^3)

PRISCILLA LN

SVMP-01D (7.0 FT)
8/22/2018: ND (< 6.4 µg/m^3)
11/6/2018: ND (< 6.1 µg/m^3)
3/4/2019: ND (< 6.3 µg/m^3)
6/25/2019: ND (< 6.8 µg/m^3)

SVMP-02D (8.5 FT)
8/22/2018: ND (< 6.6 µg/m^3)
11/7/2018: ND (< 6.3 µg/m^3)
3/5/2019: ND (< 6.4 µg/m^3)
6/25/2019: ND (< 7.1 µg/m^3)

PLYMOUTH RD

WAYNE RD

LAUREL ST

LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP TRICHLOROETHENE < 67 µg/m^3
- OFF-SITE SVMP NOT SAMPLED FOR TRICHLOROETHENE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, NOVEMBER 2018, MARCH 2019 AND JUNE 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/m$_3$ - MICROGRAMS PER CUBIC METER

THE EGLE PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR TRICHLOROETHENE IS 67 µg/m.
3

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

FT = FEET BELOW GROUND SURFACE

J = REPORTED VALUE IS ESTIMATED

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR TRICHLOROETHENE.

SVMP = SOIL VAPOR MONITORING POINT

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE AUGUST 2018, NOVEMBER 2018, MARCH 2019 OR JUNE 2019 SAMPLING EVENTS.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.

SVMP-13 THROUGH SVMP-17, AND SVMP-19 THROUGH SVMP-21 WERE NOT SAMPLED DURING THE NOVEMBER 2018 SAMPLING EVENT DUE TO SATURATED SCREENS.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, AND SVMP-23 WERE NOT SAMPLED DURING THE MARCH 2019 SAMPLING EVENT DUE TO SATURATED SCREENS.SVMP-03S WAS NOT SAMPLED DURING MARCH 2019 SAMPLING EVENT DUE TO TECHNICAL DIFFICULTIES WITH THE CANISTER.

SVMP-10, SVMP-13, SVMP-14, SVMP-15, SVMP-16, SVMP-19, AND SVMP-20 WERE NOT SAMPLED DURING THE JUNE 2019 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-26 WAS CANCELLED DUE TO HIGH CANISTER VACUUM READINGS.

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT TRICHLOROETHENE IN SOIL VAPOR

ARCADIS Design & Consultancy for natural and built assets

FIGURE
14

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: M.WACKSMAN PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\NoviBrighton_MI\Ford\Livonia\GIS\docs\GEC\2Q_2019\Figure 14 - Off-Site SVMP TCE.mxd PLOTTED: 7/28/2019 10:40:14 PM BY: Sharmayh4948

This document is a DRAFT document that has not received approval from the EGLE. This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

SVMP-25S (3.0 FT)
8/23/2018: ND (< 3.2 µg/m^3)
11/6/2018: ND (< 3.0 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)
6/24/2019: ND (< 3.3 µg/m^3)

SVMP-25D (6.0 FT)
8/23/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 3.0 µg/m^3)
3/21/2019: ND (< 3.3 µg/m^3)
6/24/2019: ND (< 3.2 µg/m^3)

SVMP-22 (3.0 FT)
8/21/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 3.0 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)
6/25/2019: ND (< 3.2 µg/m^3)

SVMP-23 (3.0 FT)
8/22/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 2.9 µg/m^3)
6/25/2019: ND (< 2.9 µg/m^3)

SVMP-24 (4.0 FT)
8/22/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 2.9 µg/m^3)
3/21/2019: ND (< 3.1 µg/m^3)
6/25/2019: ND (< 3.0 µg/m^3)

ROSATI AVE

CONCORD ST

SVMP-36 (4.0 FT)

SVMP-18 (3.0 FT)
8/22/2018: ND (< 3.3 µg/m^3)
11/7/2018: ND (< 2.9 µg/m^3)
3/5/2019: ND (< 3.6 µg/m^3)
6/25/2019: ND (< 3.4 µg/m^3)

SVMP-19 (3.0 FT)
8/22/2018: ND (< 2.9 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)

SVMP-26 (4.0 FT)
8/23/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 3.2 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)

SVMP-12 (3.5 FT)
8/23/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 3.1 µg/m^3)
3/21/2019: ND (< 3.1 µg/m^3)
6/24/2019: ND (< 3.2 µg/m^3)

SVMP-20 (3.0 FT)
8/22/2018: ND (< 3.0 µg/m^3)

CAPITOL ST

SVMP-21 (2.0 FT)
8/24/2018: ND (< 3.1 µg/m^3)
3/5/2019: ND (< 3.3 µg/m^3)
6/25/2019: ND (< 3.2 µg/m^3)

STARK RD

SVMP-33 (4.0 FT)

SVMP-34 (4.0 FT)

SVMP-37 (2.5 FT)

SVMP-27 (4.5 FT)
8/23/2018: ND (< 3.2 µg/m^3)
11/6/2018: ND (< 2.9 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)
6/24/2019: ND (< 3.2 µg/m^3)

SVMP-32 (3.0 FT)

SVMP-13 (2.0 FT)
8/24/2018: ND (< 3.1 µg/m^3)

SVMP-15 (2.0 FT)
8/24/2018: ND (< 3.1 µg/m^3)

SVMP-17 (2.0 FT)
8/24/2018: ND (< 3.2 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)
6/24/2019: ND (< 3.3 µg/m^3)

SVMP-32 (6.0 FT)

BEACON ST

SVMP-16 (2.0 FT)
8/24/2018: ND (< 3.2 µg/m^3)

SVMP-08 (3.5 FT)
8/23/2018: ND (< 3.1 µg/m^3)
11/5/2018: ND (< 3.0 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)
6/24/2019: ND (< 3.5 µg/m^3)

SVMP-09 (4.0 FT)
8/23/2018: ND (< 3.2 µg/m^3)
11/5/2018: ND (< 2.8 µg/m^3)
3/5/2019: ND (< 3.0 µg/m^3)
6/24/2019: ND (< 3.4 µg/m^3)

SVMP-10 (3.0 FT)
8/23/2018: ND (< 3.2 µg/m^3)
11/5/2018: ND (< 3.0 µg/m^3)

SVMP-14 (2.0 FT)
8/24/2018: ND (< 3.0 µg/m^3)
3/5/2019: ND (< 3.4 µg/m^3)

BREWSTER ST

BELDEN CT

SVMP-07 (3.5 FT)
8/23/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 3.1 µg/m^3)
3/4/2019: ND (< 2.9 µg/m^3)
6/24/2019: ND (< 3.4 µg/m^3)

SVMP-06 (4.5 FT)
8/23/2018: ND (< 2.9 µg/m^3)
11/5/2018: ND (< 2.9 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)
6/24/2019: ND (< 3.3 µg/m^3)

SVMP-04 (3.5 FT)
8/23/2018: ND (< 3.2 µg/m^3)
11/5/2018: ND (< 3.3 µg/m^3)
3/5/2019: ND (< 3.8 µg/m^3)
6/25/2019: ND (< 3.2 µg/m^3)

WADSWORTH ST

SVMP-28 (3.0 FT)
8/23/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 3.0 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)
6/24/2019: ND (< 3.3 µg/m^3)

SVMP-35 (4.0 FT)

SVMP-31 (5.5 FT)

SVMP-05 (4.5 FT)
8/23/2018: ND (< 3.0 µg/m^3)
11/5/2018: ND (< 2.9 µg/m^3)
3/21/2019: ND (< 3.2 µg/m^3)
6/25/2019: ND (< 3.4 µg/m^3)

SVMP-30 (4.0 FT)

BOSTON POST ST

SVMP-29 (7.5 FT)

SVMP-29 (3.5 FT)

SVMP-02S (4.5 FT)
8/22/2018: ND (< 3.2 µg/m^3)
11/7/2018: ND (< 3.0 µg/m^3)
3/21/2019: ND (< 3.0 µg/m^3)
6/25/2019: ND (< 3.3 µg/m^3)

SVMP-01D (7.0 FT)
8/22/2018: ND (< 3.0 µg/m^3)
11/6/2018: ND (< 2.9 µg/m^3)
3/4/2019: ND (< 3.0 µg/m^3)
6/25/2019: ND (< 3.2 µg/m^3)

SVMP-03S (3.5 FT)
8/22/2018: ND (< 3.0 µg/m^3)
11/7/2018: ND (< 2.9 µg/m^3)
6/25/2019: ND (< 3.5 µg/m^3)

PRISCILLA LN

SVMP-03D (7.0 FT)
8/22/2018: ND (< 3.0 µg/m^3)
11/7/2018: ND (< 2.8 µg/m^3)
3/21/2019: ND (< 3.1 µg/m^3)
6/25/2019: ND (< 3.5 µg/m^3)

SVMP-01S (3.5 FT)
8/22/2018: ND (< 3.1 µg/m^3)
11/6/2018: ND (< 3.0 µg/m^3)
3/4/2019: ND (< 2.9 µg/m^3)
6/25/2019: ND (< 3.2 µg/m^3)

SVMP-02D (8.5 FT)
8/22/2018: ND (< 3.2 µg/m^3)
11/7/2018: ND (< 3.0 µg/m^3)
3/5/2019: ND (< 3.1 µg/m^3)
6/25/2019: ND (< 3.4 µg/m^3)

PLYMOUTH RD

WAYNE RD

LAUREL ST

LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP VINYL CHLORIDE < 54 µg/m^3
- OFF-SITE SVMP NOT SAMPLED FOR VINYL CHLORIDE

NOTES:
FIGURE ONLY SHOWS THE FOUR MOST RECENT QUARTERS OF DATA (AUGUST 2018, NOVEMBER 2018, MARCH 2019 AND JUNE 2019). FULL SET OF DATA CAN BE FOUND IN THE CORRESPONDING TABLES.

µg/m$_3$ - MICROGRAMS PER CUBIC METER

THE EGLE PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR VINYL CHLORIDE IS 54 µg/m.$_3$

EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

FT = FEET BELOW GROUND SURFACE

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR VINYL CHLORIDE.

SVMP = SOIL VAPOR MONITORING POINT

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE AUGUST 2018, NOVEMBER 2018, MARCH 2019 OR JUNE 2019 SAMPLING EVENTS.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.

SVMP-13 THROUGH SVMP-17, AND SVMP-19 THROUGH SVMP-21 WERE NOT SAMPLED DURING THE NOVEMBER 2018 SAMPLING EVENT DUE TO SATURATED SCREENS.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, AND SVMP-23 WERE NOT SAMPLED DURING THE MARCH 2019 SAMPLING EVENT DUE TO SATURATED SCREENS.SVMP-03S WAS NOT SAMPLED DURING MARCH 2019 SAMPLING EVENT DUE TO TECHNICAL DIFFICULTIES WITH THE CANISTER.

SVMP-10, SVMP-13, SVMP-14, SVMP-15, SVMP-16, SVMP-19, AND SVMP-20 WERE NOT SAMPLED DURING THE JUNE 2019 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-26 WAS CANCELLED DUE TO HIGH CANISTER VACUUM READINGS.

0 300 600
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

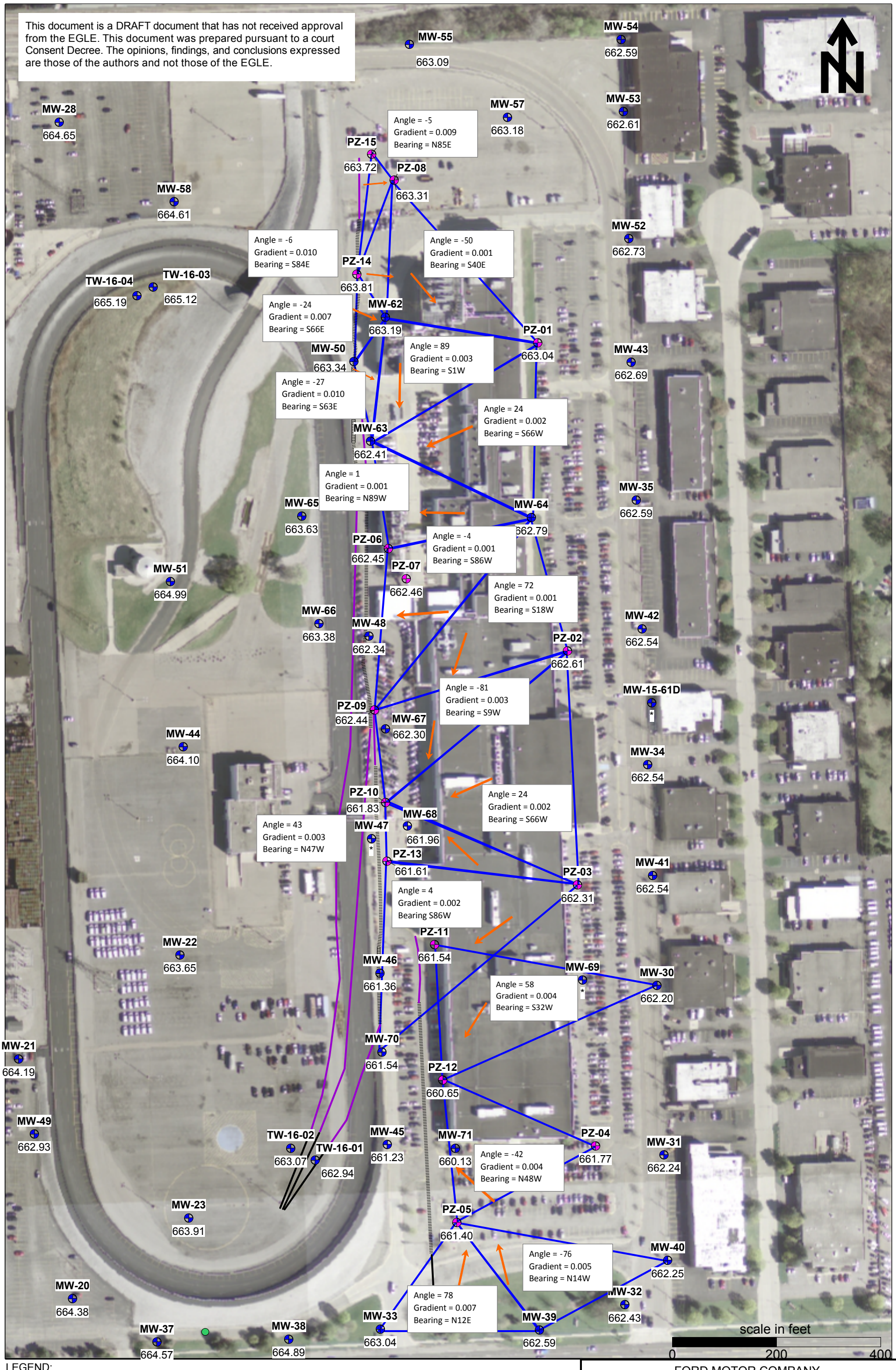
OFF-SITE VAPOR INTRUSION ASSESSMENT
VINYL CHLORIDE IN SOIL VAPOR

ARCADIS Design & Consultancy for natural and built assets

FIGURE
15

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: M.WACKSMAN PROJECT NUMBER: MI001454.0007.00004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
Z:\GISProjects_ENV\Novi\Brighton_MI\Ford\Livonia\GIS\docs\GEC\2Q_2019\Figure 15 - Off-Site SVMP VC.mxd PLOTTED: 7/28/2019 10:39:15 PM BY: Sharmayh4948

CITY: Novi DIV: ENV DB: JB PM: K. HINSKEY PROJECT NUMBER: MI001489.0007.0004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2133 Feet
G:\COMMON\Ford\Livonia\03 Notes and Data_Engineering\HCS\4_HCS Performance Monitoring\Gradient Maps & GWEC Figures BY: jbarker



LEGEND:

MW-32	LOCATION ID
	MONITORING WELL
	PIEZOMETER
661.63	GROUNDWATER ELEVATION (ft amsl)
	WELL TRIPLET PLANE WITH HYDRAULIC GRADIENT DIRECTION
	WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
	WELL BLANK CASING (4-INCH HDPE)
	WELL BLANK CASING (6-INCH HDPE)

Notes:
1. All elevations collected on June 14, 2019 and measured from top of well casing.
2. All elevations are referenced to a mean sea level datum and are in units of feet above sea level (ft amsl).
3. NM - not measured
4. HDPE - high density polyethylene
5. * - well not gauged

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

HYDRAULIC GRADIENT MAP
JUNE 2019

ARCADIS Design & Consultancy for natural and built assets

FIGURE
16

APPENDICES

APPENDIX A

Off-Site Residential Monitoring Wells

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

MW-129 MW-129S MW-125 MW-125S MW-191S MW-190 MW-190S FAIRLANE ST MW-189 MW-189S STARK RD

MW-188S MW-102 MW-102S MW-105S MW-131S MW-132S ROSATI AVE MW-187 MW-187S MW-186S MW-142S MW-108S MW-85 MW-85SR VC: 2.2 µg/L CONCORD ST

MW-72 MW-72S MW-103S MW-90S MW-166S MW-83 MW-83S MW-168S MW-169S MW-171S MW-148S MW-128S MW-160S MW-141S MW-137S MW-136S MW-107S MW-73SR MW-73D MW-118S MW-95S MW-151S MW-145S MW-123S MW-147S MW-146S MW-82D MW-82SR CAPITOL ST

MW-89S VC: 2.0 µg/L MW-117S VC: 1.1 µg/L MW-79D MW-79SR MW-156S MW-115S VC:2.2 J µg/L MW-153S MW-80SR VC: 3.2 µg/L MW-149S MW-150S MW-143S MW-133S MW-158S MW-74 MW-74S MW-109S MW-159S MW-140S MW-157S MW-139S MW-155S MW-154S MW-130S MW-138S VC: 1.6 µg/L MW-127S MW-111S MW-134S MW-78 MW-152S MW-144S MW-135S

BEACON ST MW-84S MW-185S MW-161S MW-119S MW-164S MW-163S MW-98S MW-192S MW-106S MW-81 MW-81S MW-92S MW-167S BEACON ST

MW-170S MW-84 MW-184S MW-165S MW-162S MW-91S BELDEN CT BOSTON POST ST

MW-99S MW-175S MW-179S MW-177S MW-174S MW-178S BREWSTER ST STARK RD

MW-75D MW-75SR MW-181S MW-86 MW-86S MW-96S MW-112S MW-176S MW-88S MW-116S MW-180SR MW-93S MW-121S MW-77S MW-94S MW-173S MW-172S MW-97S MW-104S MW-77 MW-126S MW-183S MW-110S MW-182S MW-100S MW-87 MW-87S STANDISH ST BOSTON POST ST

MW-101S MW-76S MW-76 PLYMOUTH RD YALE ST WAYNE RD

0 350 700
SCALE IN FEET

NOTES:

ANALYTICAL DATA FROM THE SECOND QUARTER (2Q) 2019 SAMPLING EVENT IS SHOWN IN THE FIGURE.

ONLY SHALLOW GROUNDWATER DATA SHOWN IN DATA BOXES.

ug/L: MICROGRAMS PER LITER

VC: VINYL CHLORIDE

J = ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT.

LEGEND

- RESULT EITHER NON-DETECT OR DETECTED BELOW THE MOST RESTRICTIVE CRITERIA
- RESULT EXCEEDS MOST RESTRICITIVE CRITERIA FOR AT LEAST ONE COMPOUND. HIGHLIGHTED ORANGE EXCEEDS MOST RESTRICTIVE CRITERIA (TDL OF 1.0 µg/L FOR VC)
- SAMPLE COULD NOT BE COLLECTED DUE TO SHALLOW WATER TABLE - WATER ABOVE CASING

BOUNDARIES

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

2Q2019 SHALLOW MONITORING WELL RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001454.0007 COORDINATE SYSTEM: GCS North American 1983
Z:\GISProjects_ENV\NoviBrighton_MIFord\Livonia\GIS\docs\2019-07\Shallow_MW_2q2019_Results_10pt5.mxd PLOTTED: 7/16/2019 10:37:01 AM BY: ksinsabaugh

Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
2Q 2019
Ford Livonia Transmission Plant

				Location:	MW-72	MW-72S	MW-73D	MW-73SR	MW-74	MW-74S	MW-75D	MW-75SR	MW-76	MW-76S	MW-77	MW-77S	MW-78	MW-78S	MW-79D
				Date:	5/17/2019	5/8/2019	5/8/2019	5/8/2019	5/17/2019	5/8/2019	5/15/2019	5/9/2019	5/17/2019	5/8/2019	5/16/2019	5/16/2019	5/13/2019	5/13/2019	5/15/2019
				Screen Interval (ft. bgs):	15-20	3-13	13.5-18.5	2.5-12.5	14-19	3-13	12-17	2.5-12.5	15-20	4.5-14.5	9-14	2.5-12.5	7-12	2.5-12.5	10-15
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350		< 2.0	< 2.0	2.3	< 2.0	< 2.0	< 2.0	1.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.99 J
SW8260B	1,1-Dichloroethene	7	7		< 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
SW8260B	cis-1,2-Dichloroethene	70	70		< 1.0	< 1.0	< 1.0	1.8	1.3	0.97 J	< 1.0	< 1.0	1.2	< 1.0	0.39 J	< 1.0	0.19 J	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5	5		< 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
SW8260B	trans-1,2-Dichloroethene	100	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
SW8260B	Trichloroethene	1	5		< 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
SW8260B	Vinyl chloride	1	2		**1.7**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.7**	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	**2.6**

				Location:	MW-79SR	MW-80SR	MW-81	MW-81S	MW-82D	MW-82SR	MW-83	MW-83S	MW-84	MW-84S	MW-85	MW-85SR	MW-86	MW-86S	MW-87
				Date:	5/15/2019	43595	5/17/2019	5/17/2019	5/17/2019	5/17/2019	5/22/2019	5/22/2019	5/21/2019	5/9/2019	5/17/2019	4/12/2019	5/21/2019	5/13/2019	5/21/2019
				Screen Interval (ft. bgs):	2.5-12.5	2.5-12.5	8-13	2.5-12.5	18-23	5-15	8-13	3-13	8-13	2.5-12.5	8-13	4.5-9.5	12-17	2.5-12.5	14-19
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.3 J	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7	7		< 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
SW8260B	cis-1,2-Dichloroethene	70	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
SW8260B	Tetrachloroethene	5	5		< 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
SW8260B	trans-1,2-Dichloroethene	100	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
SW8260B	Trichloroethene	1	5		< 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
SW8260B	Vinyl chloride	1	2		0.36 J	**3.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5.4**	**2.2**	< 1.0	< 1.0	< 1.0

				Location:	MW-87S	MW-88S	MW-89S	MW-90S	MW-91S	MW-92S	MW-93S	MW-94S	MW-95S	MW-96S	MW-97S	MW-98S	MW-99S	MW-100S	MW-101S
				Date:	5/13/2019	5/16/2019	5/10/2019	5/14/2019	5/21/2019	5/17/2019	5/13/2019	5/15/2019	5/16/2019	5/16/2019	5/10/2019	5/10/2019	5/9/2019	5/9/2019	5/8/2019
				Screen Interval (ft. bgs):	4.5-14.5	3-13	3-13	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	3-13	3-13	4.5-14.5
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350		< 2.0	< 2.0	< 2.0	1.3 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7	7		< 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
SW8260B	cis-1,2-Dichloroethene	70	70		< 1.0	< 1.0	0.43 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.89 J	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5	5		< 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
SW8260B	trans-1,2-Dichloroethene	100	100		< 1.0	< 1.0	0.24 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
SW8260B	Trichloroethene	1	5		< 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
SW8260B	Vinyl chloride	1	2		< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
All units are measured in micrograms per liter (µg/l).
All results are compared to the EGLE Part 201 Generic Cleanup Criteria, December 31, 2013.

Bolded	Result exceeds residential Drinking Water criteria
<	Result not detected above reporting limit.

Abbreviations:

EGLE	Michigan Department of Environment, Great Lakes, and Energy
ft. bgs	feet below ground surface
J	estimated result

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
2Q 2019
Ford Livonia Transmission Plant

				Location:	MW-102	MW-102S	MW-103S	MW-104S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	MW-112S	MW-115S	MW-116S	MW-117S
				Date:	5/17/2019	5/14/2019	5/16/2019	5/15/2019	5/14/2019	5/16/2019	5/10/2019	5/14/2019	5/10/2019	5/15/2019	5/15/2019	5/16/2019	5/17/2019	5/16/2019	5/16/2019
				Screen Interval (ft. bgs):	10-15	2.5-12.5	2.0-7.0	9.0-14.0	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	8.0-13.0	8.0-13.0	2.5-12.5	2.5-12.5	3-13	2.5-12.5
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350		1.1 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.93 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7	7		< 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
SW8260B	cis-1,2-Dichloroethene	70	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J
SW8260B	Tetrachloroethene	5	5		< 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
SW8260B	trans-1,2-Dichloroethene	100	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
SW8260B	Trichloroethene	1	5		< 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	0.37 J
SW8260B	Vinyl chloride	1	2		**1.8**	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.2 J**	< 1.0	**1.1**

				Location:	MW-118S	MW-119S	MW-121S	MW-125	MW-125S	MW-126S	MW-127S	MW-128S	MW-129	MW-129S	MW-130S	MW-131S	MW-132S	MW-133S	MW-134S
				Date:	5/15/2019	5/10/2019	5/13/2019	4/18/2019	4/18/2019	5/13/2019	5/16/2019	5/22/2019	4/18/2019	4/18/2019	5/13/2019	5/14/2019	5/14/2019	5/23/2019	5/20/2019
				Screen Interval (ft. bgs):	2.5-12.5	2.5-12.5	2.5-12.5	7-12	2-7	3-13	3-13	4-14	10-15	2-7	3-13	2.5-12.5	2.5-12.5	4-9	5-10
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.4 J	1.3 J	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7	7		< 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
SW8260B	cis-1,2-Dichloroethene	70	70		< 1.0	0.16 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
SW8260B	Tetrachloroethene	5	5		< 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
SW8260B	trans-1,2-Dichloroethene	100	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
SW8260B	Trichloroethene	1	5		< 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
SW8260B	Vinyl chloride	1	2		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.97 J	0.85 J	< 1.0	< 1.0	< 1.0

				Location:	MW-135S	MW-136S	MW-137S	MW-138S	MW-139S	MW-140S	MW-141S	MW-142S	MW-143S	MW-144S	MW-145S	MW-146S	MW-147S	MW-148S	MW-150S
				Date:	5/20/2019	5/22/2019	5/13/2019	5/16/2019	5/9/2019	5/16/2019	5/15/2019	5/23/2019	5/23/2019	5/20/2019	5/23/2019	5/14/2019	5/15/2019	5/15/2019	5/22/2019
				Screen Interval (ft. bgs):	5-10	2-7	2-7	2-7	2-7	2-7	3-8	2.5-7.5	5.5-10.5	7-12	6-11	6-11	2-7	2-7	2-7
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.2 J	< 2.0	1.1 J	< 2.0
SW8260B	1,1-Dichloroethene	7	7		< 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
SW8260B	cis-1,2-Dichloroethene	70	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
SW8260B	Tetrachloroethene	5	5		< 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
SW8260B	trans-1,2-Dichloroethene	100	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
SW8260B	Trichloroethene	1	5		< 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
SW8260B	Vinyl chloride	1	2		< 1.0	< 1.0	0.91 J	**1.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	0.76 J	< 1.0

Notes:
All units are measured in micrograms per liter (µg/l).
All results are compared to the EGLE Part 201 Generic Cleanup Criteria, December 31, 2013.

Bolded	Result exceeds residential Drinking Water criteria
<	Result not detected above reporting limit.

Abbreviations:

EGLE	Michigan Department of Environment, Great Lakes, and Energy
ft. bgs	feet below ground surface
J	estimated result

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
2Q 2019
Ford Livonia Transmission Plant

				Location:	MW-151S	MW-152S	MW-153S	MW-154S	MW-155S	MW-156S	MW-157S	MW-158S	MW-159S	MW-160S	MW-161S	MW-162S	MW-163S	MW-164S	MW-165S
				Date:	5/21/2019	5/14/2019	5/10/2019	5/14/2019	5/9/2019	5/17/2019	5/16/2019	5/10/2019	5/9/2019	5/16/2019	5/9/2019	5/17/2019	5/10/2019	5/10/2019	5/10/2019
				Screen Interval (ft. bgs):	2.5-7.5	2.5-7.5	2-7	2-7	2-7	3-8	2.5-7.5	2.5-7.5	4-9	4-9	2.5-7.5	3-8	2-7	3-8	2-7
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	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
SW8260B	1,1-Dichloroethene	7	7		< 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
SW8260B	cis-1,2-Dichloroethene	70	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
SW8260B	Tetrachloroethene	5	5		< 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
SW8260B	trans-1,2-Dichloroethene	100	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
SW8260B	Trichloroethene	1	5		< 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
SW8260B	Vinyl chloride	1	2		0.92 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

				Location:	MW-166S	MW-167S	MW-168S	MW-169S	MW-170S	MW-171S	MW-172S	MW-173S	MW-174S	MW-175S	MW-176S	MW-177S	MW-178S	MW-179S	MW-180SR
				Date:	5/23/2019	5/20/2019	5/15/2019	5/15/2019	5/10/2019	5/13/2019	5/13/2019	5/13/2019	5/13/2019	5/13/2019	5/13/2019	5/15/2019	5/15/2019	5/17/2019	5/16/2019
				Screen Interval (ft. bgs):	6-11	5-10	2-7	2-7	4.5-9.5	2-7	4.5-9.5	5.5-10.5	5.5-10.5	6-11	5-10	4-9	4.5-9.5	6-11	6.5-11.5
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	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	2.8
SW8260B	1,1-Dichloroethene	7	7		< 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
SW8260B	cis-1,2-Dichloroethene	70	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
SW8260B	Tetrachloroethene	5	5		< 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
SW8260B	trans-1,2-Dichloroethene	100	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
SW8260B	Trichloroethene	1	5		< 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
SW8260B	Vinyl chloride	1	2		< 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

				Location:	MW-181S	MW-182S	MW-183S	MW-184S	MW-185S	MW-186S	MW-187	MW-187S	MW-188S	MW-189	MW-189S	MW-190	MW-190S	MW-191S	MW-192S
				Date:	5/16/2019	5/13/2019	5/13/2019	5/15/2019	5/9/2019	4/12/2019	4/12/2019	4/12/2019	4/18/2019	4/16/2019	4/16/2019	4/19/2019	4/19/2019	4/22/2019	4/11/2019
				Screen Interval (ft. bgs):	3.5-8.5	4-9	8-13	4.5-9.5	6-11	2.5-7.5	13-Aug	8-Mar	8-Mar	15-Oct	4.5-9.5	14-Sep	2.5-7.5	2.5-7.5	2.5-7.5
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	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
SW8260B	1,1-Dichloroethene	7	7		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	0.74 J	1.0	2.3	< 1.0
SW8260B	Tetrachloroethene	5	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1	5		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	0.57 J	< 1.0
SW8260B	Vinyl chloride	1	2		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
All units are measured in micrograms per liter (µg/l).
All results are compared to the EGLE Part 201 Generic Cleanup Criteria, December 31, 2013.

Bolded	Result exceeds residential Drinking Water criteria
<	Result not detected above reporting limit.

Abbreviations:

EGLE	Michigan Department of Environment, Great Lakes, and Energy
ft. bgs	feet below ground surface
J	estimated result

This document is a DRAFT document that has not received approval from the Michigan Department of Environment, Great Lakes, and Energy (EGLE). This document was prepared pursuant to a court Consent Decree. The opinions, findings, and conclusions expressed are those of the authors and not those of the EGLE.

APPENDIX B

On-Site Groundwater Field Sampling Logs

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-1			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	69.98 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	14-19	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.67	Total Depth (ft-bmp)	18.53	Water Column (ft.)	14.86	Gallons in Well	2.41
		Pump Intake (ft-bmp)	16.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.29				
Sample Time: Label	13:48	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	12:46						
Purge End	13:52						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:47	0	200	3.67	0	7.32	49.40	18.40	2.09	15.8	5.0	Clear	None
12:52	5	200	3.67	0.26	7.34	50.65	10.70	1.92	15.2	-60.2	Clear	None
12:57	5	200	3.67	0.52	7.33	51.07	25.80	1.04	15.6	-116.5	Clear	None
13:02	5	200	3.67	0.78	7.33	51.13	23.80	1.12	15.2	-136.4	Clear	None
13:07	5	200	3.67	1.04	7.33	51.39	22.80	1.02	15.0	-142.9	Clear	None
13:12	5	200	3.67	1.3	7.33	51.54	23.10	1.14	15.1	-146.6	Clear	None
13:17	5	200	3.67	1.56	7.33	51.60	24.60	0.86	15.0	-150.5	Clear	None
13:22	5	200	3.67	1.82	7.32	51.61	17.60	0.76	15.2	-152.6	Clear	None
13:27	5	200	3.67	2.08	7.33	51.80	18.70	0.68	15.0	-153.9	Clear	None
13:32	5	200	3.67	2.34	7.34	51.87	20.70	0.65	14.6	-155.3	Clear	None
13:37	5	200	3.67	2.6	7.34	51.86	17.40	0.63	15.0	-154.7	Clear	None
13:42	5	200	3.67	2.86	7.34	51.93	22.60	0.58	14.7	-154.2	Clear	None
13:47	5	200	3.67	3.12	7.34	52.01	16.00	0.59	15.1	-155.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	S parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-2			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	71.96 degrees F and Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15.5-20.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.22	Total Depth (ft-bmp)	19.42	Water Column (ft.)	12.20	Gallons in Well	1.98
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.75				
Sample Time: Label	14:57	Volume Purged	5602.41 ml	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	14:12						
Purge End	15:01						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:14	0	150	6.97	0	7.19	14.83	15.60	1.31	22.1	-52.8	Clear	None
14:19	5	150	6.92	0.2	7.18	14.93	10.40	0.42	20.9	-66.6	Clear	None
14:24	5	150	6.93	0.4	7.19	15.01	8.32	0.28	20.9	78.9	Clear	None
14:30	6	150	6.91	0.64	7.2	15.09	19.80	0.26	20.9	-87.4	Clear	None
14:35	5	150	6.93	0.84	7.2	15.15	4.16	0.23	20.9	-95.2	Clear	None
14:40	5	150	6.93	1.04	7.2	15.21	8.76	0.21	20.9	-100.4	Clear	None
14:45	5	150	6.96	1.24	7.21	15.25	2.68	0.19	20.9	-105.1	Clear	None
14:48	3	150	6.97	1.36	7.21	15.27	2.40	0.18	20.9	-107.2	Clear	None
14:51	3	150	6.96	1.48	7.21	15.30	2.69	0.17	20.9	-109.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Between Q14 and clean room	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-3			Date	6/11/2019
Project Name/Location	Ford LTP			Weather	66.02 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	14-19	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.11	Total Depth (ft-bmp)	18.78	Water Column (ft.)	11.67	Gallons in Well	1.90
		Pump Intake (ft-bmp)	16.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.94				
Sample Time: Label	13:20	Volume Purged	6738.03 ml	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	12:30						
Purge End	13:24						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:32	0	175	7.26	0	7.3	14.74	0.71	0.58	20.6	-11.8	Clear	None
12:36	4	150	7.23	0.18	7.31	14.77	6.45	0.38	29.6	-22.7	Clear	None
12:41	5	150	7.20	0.38	7.32	14.78	3.86	0.36	20.6	-43.0	Clear	None
12:46	5	150	7.20	0.58	7.33	14.79	4.60	0.24	20.6	-55.6	Clear	None
12:51	5	150	7.21	0.78	7.33	14.79	4.96	0.22	20.6	-68.2	Clear	None
12:56	5	150	7.21	0.98	7.33	14.79	5.31	0.21	20.6	-78.7	Clear	None
13:01	5	150	7.21	1.18	7.34	14.79	7.70	0.20	20.6	-88.0	Clear	None
13:04	3	150	7.21	1.3	7.34	14.80	5.77	0.20	20.6	-92.5	Clear	None
13:07	3	150	7.22	1.42	7.34	14.80	5.28	0.19	20.6	-98.6	Clear	None
13:10	3	150	7.22	1.54	7.34	14.80	3.46	0.19	20.6	-102.7	Clear	None
13:13	3	150	7.22	1.66	7.34	14.81	4.82	0.19	20.6	-106.7	Clear	None
13:16	3	150	7.22	1.78	7.35	14.81	2.15	0.18	20.6	-110.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

--

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:	Right of Q42	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-4			Date	6/11/2019
Project Name/Location	Ford LTP			Weather	66.02 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15.5-20.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.37	Total Depth (ft-bmp)	19.93	Water Column (ft.)	12.56	Gallons in Well	2.04
		Pump Intake (ft-bmp)	16.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.63				
Sample Time: Label	11:18	Volume Purged	4845.33 ml	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	10:41						
Purge End	11:22						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:43	0	150	7.41	0	7.12	11.03	2.97	0.59	22.3	-43.5	Clear	None
10:50	7	150	7.42	0.28	7.14	10.99	5.80	0.41	22.3	-57.2	Clear	None
10:55	5	150	7.43	0.48	7.14	10.71	4.11	0.32	22.3	-67.2	Clear	None
11:00	5	150	7.43	0.68	7.15	10.45	3.63	0.29	22.3	-74.0	Clear	None
11:05	5	150	7.43	0.88	7.15	10.35	1.73	0.25	22.3	-79.5	Clear	None
11:10	5	150	7.43	1.08	7.15	10.29	2.07	0.25	22.3	-83.5	Clear	None
11:15	5	150	7.44	1.28	7.15	10.22	0.95	0.22	22.2	-87.0	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

--

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:	K14 in plant	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-5			Date	6/11/2019
Project Name/Location	Ford LTP			Weather	75.92 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15.5-20.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.01	Total Depth (ft-bmp)	19.63	Water Column (ft.)	12.62	Gallons in Well	2.05
		Pump Intake (ft-bmp)	16.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.88				
Sample Time: Label	17:33	Volume Purged	6813.74 ml	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	16:39						
Purge End	17:36						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:42	0	150	7.30	0	7.49	14.50	4.14	0.68	21.8	24.6	Clear	None
16:48	6	150	7.30	0.24	7.47	14.69	4.45	0.38	21.7	-0.4	Clear	None
16:53	5	150	7.30	0.44	7.47	14.70	4.73	0.29	21.7	-18.8	Clear	None
16:58	5	150	7.30	0.64	7.47	14.70	2.99	0.25	21.7	-37.9	Clear	None
17:03	5	150	7.30	0.84	7.47	14.69	2.79	0.25	21.7	-54.0	Clear	None
17:08	5	150	7.32	1.04	7.47	14.68	2.58	0.23	21.7	-67.5	Clear	None
17:12	4	150	7.33	1.2	7.47	14.67	3.64	0.21	21.7	-80.3	Clear	None
17:15	3	150	7.33	1.32	7.47	14.67	5.14	0.20	21.7	-92.6	Clear	None
17:18	3	150	7.33	1.44	7.47	14.66	3.96	0.20	21.7	-100.9	Clear	None
17:21	3	150	7.33	1.56	7.48	14.65	2.64	0.18	21.7	-109.0	Clear	None
17:24	3	150	7.34	1.68	7.47	14.65	2.90	0.19	21.7	-117.3	Clear	None
17:27	3	150	7.34	1.8	7.47	14.63	2.70	0.18	21.7	-118.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

--

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:	Inside clean room	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-7			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	69.08 degrees F and Light Rain and Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	18-23	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.78	Total Depth (ft-bmp)	22.55	Water Column (ft.)	17.77	Gallons in Well	2.89
		Pump Intake (ft-bmp)	20.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.08				
Sample Time: Label	12:23	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	11:21						
Purge End	12:26						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:22	0	200	2.20	0	7.06	6.57	34.30	2.38	15.1	125.7	Clear	None
11:27	5	200	2.20	0.26	7.27	7.71	14.80	1.24	14.7	74.7	Clear	None
11:32	5	200	2.20	0.52	7.36	8.42	11.70	0.47	14.7	14.7	Clear	None
11:37	5	200	2.20	0.78	7.38	8.48	5.56	0.48	14.6	-3.3	Clear	None
11:42	5	200	2.20	1.04	7.4	8.64	8.61	0.24	14.6	-35.4	Clear	None
11:47	5	200	2.20	1.3	7.42	8.73	4.25	0.33	14.3	-58.0	Clear	None
11:52	5	200	2.20	1.56	7.42	8.37	5.45	0.55	14.3	-76.5	Clear	None
11:57	5	200	2.20	1.82	7.43	8.95	3.06	0.37	14.4	-90.0	Clear	None
12:02	5	200	2.20	2.08	7.44	9.04	5.67	0.26	14.4	-96.4	Clear	None
12:07	5	200	2.20	2.34	7.44	9.13	6.15	0.50	14.2	-104.6	Clear	None
12:12	5	200	2.20	2.6	7.45	9.18	1.45	0.09	14.2	-108.8	Clear	None
12:17	5	200	2.20	2.86	7.45	9.23	1.63	0.02	14.3	-113.9	Clear	None
12:22	5	200	2.20	3.12	7.46	9.30	0.02	0.04	14.5	-115.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	SE parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Fair	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-9			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	64.94 degrees F and Cloudy and Windy		
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)	5.69	Total Depth (ft-bmp)	24.35	Water Column (ft.)	18.66	Gallons in Well	3.03
		Pump Intake (ft-bmp)	22.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.94				
Sample Time: Label	18:03	Volume Purged	2.86 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	17:05						
Purge End	18:06						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
17:06	0	200	5.69	0	7.68	4.59	13.90	3.59	16.2	-32.3	Clear	None
17:11	5	200	5.69	0.26	7.64	4.74	22.00	1.96	14.6	-72.8	Clear	None
17:16	5	200	5.69	0.52	7.64	4.71	19.10	1.78	14.5	-93.3	Clear	None
17:21	5	200	5.69	0.78	7.64	4.67	14.90	1.69	14.5	-104.6	Clear	None
17:26	5	200	5.69	1.04	7.64	4.58	15.40	0.13	14.5	-110.6	Clear	None
17:31	5	200	5.69	1.3	7.62	4.48	11.10	0.12	14.4	-113.2	Clear	None
17:36	5	200	5.69	1.56	7.62	4.44	6.73	0.10	14.4	-114.9	Clear	None
17:41	5	200	5.69	1.82	7.63	4.39	6.05	0.09	14.3	-116.2	Clear	None
17:46	5	200	5.69	2.08	7.61	4.35	5.13	0.10	14.3	-116.8	Clear	None
17:51	5	200	5.69	2.34	7.62	4.33	4.70	0.18	14.3	-117.7	Clear	None
17:56	5	200	5.69	2.6	7.61	4.33	3.71	0.10	14.2	-117.9	Clear	None
18:01	5	200	5.69	2.86	7.62	4.33	3.56	0.10	14.3	-119.0	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	SE parking lot	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

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-10			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	66.02 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16.5-21.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.29	Total Depth (ft-bmp)	10.77	Water Column (ft.)	2.48	Gallons in Well	0.40
		Pump Intake (ft-bmp)	8.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	6.15				
Sample Time: Label	10:05	Volume Purged	9312.11 ml	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	8:58						
Purge End	10:08						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:00	0	150	8.55	0	7.24	8.59	10.20	0.79	21.8	133.2	Clear	None
9:04	4	150	8.58	0.16	7.25	8.69	11.40	0.54	21.9	123.6	Clear	None
9:09	5	175	8.60	0.36	7.25	8.71	10.90	1.07	21.8	112.9	Clear	None
9:14	5	150	8.60	0.59	7.27	8.73	9.54	0.59	21.8	94.5	Clear	None
9:19	5	150	8.60	0.82	7.28	8.74	8.59	0.51	21.8	74.8	Clear	None
9:23	4	150	8.60	0.98	7.29	8.75	10.90	0.56	21.8	58.4	Clear	None
9:28	5	150	8.60	1.18	7.3	8.75	7.47	0.32	21.8	41.7	Clear	None
9:34	6	150	8.60	1.42	7.29	8.83	4.50	0.59	21.7	21.1	Clear	None
9:37	3	150	8.60	1.54	7.28	8.87	5.66	0.40	21.8	13.3	Clear	None
9:40	3	150	8.62	1.66	7.26	8.96	11.40	0.33	21.7	-1.1	Clear	None
9:43	3	150	8.62	1.78	7.26	9.02	5.33	0.32	21.7	-6.3	Clear	None
9:47	4	150	8.62	1.94	7.24	9.10	2.33	0.37	21.7	-19.1	Clear	None
9:52	5	150	8.62	2.14	7.23	9.17	1.01	0.45	21.7	-30.3	Clear	None
9:56	4	150	8.62	2.3	7.22	9.22	3.92	0.37	21.7	-38.6	Clear	None
10:00	4	150	8.62	2.46	7.21	9.27	3.04	0.30	21.7	-47.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	E16 in plant	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-14			Date	6/12/2019
Project Name/Location	Ford LTP			Weather	66 F sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.93	Total Depth (ft-bmp)	19.49	Water Column (ft.)	13.56	Gallons in Well	2.20
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.47				
Sample Time: Label	10:30	Volume Purged	12264.73 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	9:02						
Purge End	10:25						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:18	0	200	6.15	0	7.43	2.94	413.00	0.28	14.2	86.1	Brown	None
9:24	6	200	6.15	0.32	7.37	3.77	432.00	0.18	14.1	77.6	Brown	None
9:27	3	200	6.12	0.48	7.3	5.15	392.00	0.16	14.1	62.7	Brown	None
9:30	3	200	6.12	0.64	7.26	6.84	327.00	0.14	14.0	42.1	Brown	None
9:35	5	200	6.12	0.9	7.23	8.45	225.00	0.12	14.1	18.4	Brown	None
9:40	5	200	6.10	1.16	7.21	9.78	186.00	0.11	14.1	1.3	Brown	None
9:45	5	200	6.10	1.42	7.18	10.79	131.00	0.10	14.0	-6.9	Brown	None
9:50	5	200	6.10	1.68	7.15	11.71	78.80	0.12	14.0	-12.0	Brown	None
9:55	5	200	6.10	1.94	7.13	12.32	57.80	0.13	14.0	-14.7	Browm	None
10:00	5	200	6.10	2.2	7.12	12.64	43.90	0.10	14.0	-16.7	Brown	None
10:05	5	200	6.10	2.46	7.11	12.93	35.40	0.10	14.0	-18.4	Clear	None
10:10	5	200	6.10	2.72	7.09	13.19	29.80	0.09	14.1	-19.6	Clear	None
10:15	5	200	6.12	2.98	7.08	13.21	29.40	0.10	14.0	-21.1	Clear	None
10:20	5	200	6.12	3.24	7.07	13.32	21.50	0.10	13.9	-21.7	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

--

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:	South parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Good,Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-15-59D			Date	6/13/2019
Project Name/Location		Ford LTP		Weather	59.00 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	94-99	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	24.00	Total Depth (ft-bmp)	99.87	Water Column (ft.)	75.87	Gallons in Well	12.33
		Pump Intake (ft-bmp)	96.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.16				
Sample Time: Label	12:11	Volume Purged	1.99 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	12:06						
Purge End	12:50						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:09	0	180	24.00	0	7.69	0.433	7.69	0.54	14.1	-5.6	Clear	None
12:16	7	275	24.00	0.33	7.8	0.434	7.32	0.22	14.1	-114.7	Clear	None
12:22	6	275	24.70	0.77	7.88	0.433	4.49	0.20	13.9	-137.4	Clear	None
12:27	5	250	24.00	1.13	7.94	0.432	5.84	0.14	14.0	-160.9	Clear	None
12:31	4	250	24.00	1.39	7.98	0.434	7.14	0.14	14.0	-169.7	Clear	None
12:34	3	250	24.00	1.59	8.01	0.436	9.85	0.15	14.0	-180.5	Clear	None
12:37	3	250	24.00	1.79	8.04	0.436	10.70	0.15	14.0	-185.5	Clear	None
12:40	3	250	24.00	1.99	8.05	0.436	10.70	0.14	14.1	-189.8	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Northeast parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-15-60D			Date	6/13/2019
Project Name/Location		Ford LTP		Weather	57.92 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	93-98	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	19.51	Total Depth (ft-bmp)	99.46	Water Column (ft.)	79.95	Gallons in Well	12.99
		Pump Intake (ft-bmp)	96.20	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.26				
Sample Time: Label	10:16	Volume Purged	3.42 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	9:57						
Purge End	10:43						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:03	0	360	19.92	0	7.91	0.455	30.60	0.19	14.7	-185.0	Clear	None
10:08	5	350	19.92	0.48	7.92	0.455	24.60	0.15	14.8	-188.6	Clear	None
10:13	5	350	19.92	0.94	7.95	0.452	19.20	0.11	14.7	-195.2	Clear	None
10:18	5	350	19.92	1.4	7.97	0.453	16.60	0.11	14.7	-199.8	Clear	None
10:24	6	350	19.92	1.95	7.99	0.458	15.50	0.13	14.7	-205.4	Clear	None
10:29	5	350	19.92	2.41	8.01	0.460	13.20	0.10	14.7	-208.8	Clear	None
10:34	5	260	19.73	2.87	8.04	0.459	11.30	0.10	14.8	-207.0	Clear	None
10:40	6	180	19.73	3.28	8.04	0.458	11.30	0.23	14.9	-212.9	Clear	None
10:43	3	180	19.73	3.42	8.05	0.457	10.30	0.15	14.9	-214.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

--

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:	Southwest corner parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-15-61D			Date	6/15/2019
Project Name/Location		Ford LTP		Weather	64.94 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	88-93	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	24.49	Total Depth (ft-bmp)	92.85	Water Column (ft.)	68.36	Gallons in Well	11.11
		Pump Intake (ft-bmp)	89.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.16				
Sample Time: Label	11:24	Volume Purged	1.77 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	10:44						
Purge End	11:24						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:47	0	175	24.49	0	7.63	0.790	7.30	0.32	15.0	-106.1	Clear	None
10:51	4	270	24.49	0.18	7.48	0.790	7.27	0.26	14.8	-103.2	Clear	None
10:55	4	270	28.20	0.47	7.5	0.760	9.30	0.24	14.8	-105.8	Clear	None
11:00	5	200	28.20	0.83	7.53	0.760	6.45	0.26	14.8	-108.9	Clear	None
11:05	5	200	28.20	1.09	7.51	0.750	6.72	0.24	14.8	-109.7	Clear	None
11:10	5	160	28.20	1.35	7.51	0.740	8.15	0.20	14.9	-111.7	Clear	None
11:15	5	160	28.20	1.56	7.52	0.750	7.68	0.19	14.9	-113.4	Clear	None
11:20	5	160	28.20	1.77	7.52	0.740	7.89	0.21	14.7	-115.0	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments .

--

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:	In road	Well Locked at Arrival:	n/a
Condition of Well:	Thread tabs stripped	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-18			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	64.94 degrees F and Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	13-18	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.40	Total Depth (ft-bmp)	18.01	Water Column (ft.)	11.61	Gallons in Well	1.89
		Pump Intake (ft-bmp)	15.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.24				
Sample Time: Label	16:18	Volume Purged	2.34 gallons	Replicate/Code No.	DUP-02	Sampled by	Madison Olender
Purge Start	15:31						
Purge End	16:25						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:32	0	200	6.40	0	7.23	2.01	10.20	0.88	14.3	-59.6	Clear	None
15:37	5	200	6.40	0.26	7.19	2.01	12.20	0.34	14.2	-103.5	Clear	None
15:42	5	200	6.40	0.52	7.18	1.96	9.28	0.20	14.1	-121.2	Clear	None
15:47	5	200	6.40	0.78	7.17	1.93	10.30	0.15	14.0	-128.1	Clear	None
15:52	5	200	6.40	1.04	7.16	1.93	6.89	0.13	14.0	-130.2	Clear	None
15:57	5	200	6.40	1.3	7.15	1.93	5.82	0.14	14.0	-131.1	Clear	None
16:02	5	200	6.40	1.56	7.14	1.94	3.29	0.11	13.8	-131.2	Clear	None
16:07	5	200	6.40	1.82	7.14	1.94	2.63	0.13	13.9	-131.3	Clear	None
16:12	5	200	6.40	2.08	7.14	1.95	2.78	0.10	13.9	-131.5	Clear	None
16:17	5	200	6.40	2.34	7.13	1.95	0.02	0.11	13.8	-131.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	SE parking lot	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

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-19			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	75.02 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.50	Total Depth (ft-bmp)	19.49	Water Column (ft.)	13.99	Gallons in Well	2.27
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.26				
Sample Time: Label	14:23	Volume Purged	2.86 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	13:24						
Purge End	14:26						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:25	0	200	5.50	0	6.34	0.335	40.60	3.40	16.9	-88.0	Clear	None
13:30	5	200	5.50	0.26	6.01	0.830	36.80	0.80	16.1	-22.6	Clear	None
13:35	5	200	5.50	0.52	6.8	10.80	32.10	0.24	15.6	-82.3	Clear	None
13:40	5	200	5.50	0.78	6.88	11.10	19.50	0.18	15.5	-129.7	Clear	None
13:45	5	200	5.50	1.04	6.91	11.16	21.20	0.14	16.3	-155.2	Clear	None
13:50	5	200	5.50	1.3	6.92	11.13	7.87	0.13	16.5	-164.8	Clear	None
13:55	5	200	5.50	1.56	6.94	11.18	4.80	0.15	16.4	-172.4	Clear	None
14:00	5	200	5.50	1.82	6.94	11.24	7.95	0.14	16.5	-176.5	Clear	None
14:05	5	200	5.50	2.08	6.95	11.37	6.29	0.12	16.1	-179.6	Clear	None
14:10	5	200	5.50	2.34	6.94	11.50	4.18	0.11	15.4	-181.6	Clear	None
14:15	5	200	5.50	2.6	6.94	11.61	3.86	0.10	15.5	-183.8	Clear	None
14:20	5	200	5.50	2.86	6.94	11.64	3.32	0.09	15.4	-185.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Inside gate	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-20			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	66 F sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	13.5-18.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.10	Total Depth (ft-bmp)	15.42	Water Column (ft.)	10.32	Gallons in Well	1.68
		Pump Intake (ft-bmp)	13.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.76				
Sample Time: Label	12:30	Volume Purged	11166.97 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	11:15						
Purge End	12:19						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:16	0	175	5.71	0	9.09	0.241	27.80	1.69	14.9	-60.4	Clear	None
11:20	4	175	5.71	0.18	8.99	0.229	30.50	1.33	14.9	-59.5	Clear	None
11:25	5	180	5.85	0.41	8.84	0.190	26.80	1.02	14.6	-60.7	Clear	None
11:30	5	180	5.85	0.65	8.75	0.190	21.30	0.59	14.6	-63.2	Clear	None
11:35	5	180	5.90	0.89	8.68	0.213	17.00	0.39	14.5	-63.6	Clear	None
11:40	5	180	5.95	1.13	8.64	0.238	19.60	0.27	14.5	-65.8	Clear	None
11:45	5	180	5.95	1.37	8.6	0.282	19.70	0.21	14.4	-66.3	Clear	None
11:50	5	180	5.93	1.61	8.57	0.329	21.20	0.14	14.4	-68.5	Clear	None
11:55	5	180	5.93	1.85	8.55	0.398	17.60	0.11	14.5	-71.0	Clear	None
12:00	5	180	5.93	2.09	8.55	0.446	20.40	0.10	14.5	-72.6	Clear	None
12:05	5	180	5.92	2.33	8.54	0.516	18.10	0.09	14.3	-75.4	Clear	None
12:10	5	180	5.93	2.57	8.53	0.570	16.20	0.09	14.5	-77.8	Clear	None
12:15	5	180	5.93	2.81	8.51	0.680	14.70	0.09	14.4	-79.8	Clear	None
12:18	3	180	5.93	2.95	8.5	0.730	15.60	0.08	14.4	-82.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	South parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-21			Date	6/13/2019
Project Name/Location		Ford LTP		Weather	57.92 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	13.5-18.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.05	Total Depth (ft-bmp)	17.60	Water Column (ft.)	10.55	Gallons in Well	1.71
		Pump Intake (ft-bmp)	15.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.66				
Sample Time: Label	10:02	Volume Purged	2.84 gallons	Replicate/Code No.	--	Sampled by	Jonathon Lust
Purge Start	9:02						
Purge End	10:02						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:02	0	180	7.50	0	8.04	0.010	75.10	6.74	13.4	-25.9	Clear	None
9:07	5	180	7.15	0.24	7.49	0.206	55.70	4.16	13.3	16.1	Clear	None
9:12	5	180	7.15	0.48	7.1	0.242	29.20	2.78	13.3	-0.6	Clear	None
9:17	5	180	7.15	0.72	7.07	0.283	26.90	2.90	13.4	-16.3	Clear	None
9:22	5	180	7.15	0.96	7.05	0.510	16.60	1.91	13.2	-39.2	Clear	None
9:27	5	180	7.15	1.2	7.06	0.790	11.30	1.25	13.4	-50.1	Clear	None
9:32	5	180	7.15	1.44	7.09	1.29	8.90	0.92	13.3	-62.4	Clear	None
9:35	3	180	7.15	1.58	7.11	1.60	7.01	0.70	13.4	-70.8	Clear	None
9:38	3	180	7.15	1.72	7.11	1.80	6.19	0.67	13.7	-76.5	Clear	None
9:41	3	180	7.15	1.86	7.11	2.02	5.74	0.53	13.5	-81.3	Clear	None
9:44	3	180	7.15	2	7.11	2.29	5.31	0.42	13.4	-87.5	Clear	None
9:47	3	180	7.15	2.14	7.11	2.53	5.05	0.41	13.4	-91.8	Clear	None
9:50	3	180	7.15	2.28	7.11	2.65	3.98	0.35	13.5	-93.7	Clear	None
9:53	3	180	7.15	2.42	7.1	2.79	3.68	0.32	13.5	-95.1	Clear	None
9:56	3	180	7.15	2.56	7.1	2.97	3.45	0.34	13.5	-97.2	Clear	None
9:59	3	180	7.15	2.7	7.1	3.07	3.04	0.28	13.4	-98.2	Clear	None
9:59	3	180	7.15	2.7	7.1	3.16	3.04	0.28	13.4	-98.2	Clear	None
10:02	3	180	7.15	2.84	7.1	--	2.87	0.29	13.5	-99.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±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	6	HCL
--	--	--	--

Comments

Well is inside a small vault

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:	North of gate 10 parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Casing broken,Missing bolts,Poor	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-22			Date	6/10/2019
Project Name/Location	Ford LTP			Weather	69.08 degrees F and Light Rain and Fog/Mist		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16.5-20.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.54	Total Depth (ft-bmp)	20.45	Water Column (ft.)	13.91	Gallons in Well	2.26
		Pump Intake (ft-bmp)	18.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.06				
Sample Time: Label	12:18	Volume Purged	9084.99 ml	Replicate/Code No.	DUP-01	Sampled by	Rachel Bielak
Purge Start	11:18						
Purge End	12:18						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:18	0	150	6.46	0	6.84	9.85	71.50	1.68	14.4	83.1	Clear	None
11:23	5	150	6.72	0.2	6.92	10.17	58.30	1.29	14.4	-34.3	Clear	Normal
11:28	5	150	6.68	0.4	6.93	10.24	44.70	0.70	14.4	4.5	Clear	Normal
11:35	7	150	6.67	0.68	6.96	9.86	40.00	0.60	14.5	-20.0	Clear	None
11:40	5	150	6.67	0.88	6.96	9.91	23.30	0.48	14.4	-32.6	Clear	Normal
11:45	5	150	6.68	1.08	6.98	9.90	26.60	0.37	14.3	-44.4	Clear	None
11:50	5	150	6.68	1.28	6.99	9.88	16.40	0.32	14.6	-48.5	Clear	None
11:54	4	150	6.68	1.44	6.99	9.92	23.20	0.32	14.2	-50.4	Clear	None
11:59	5	150	6.68	1.64	7	9.82	23.90	0.21	14.0	-54.0	Clear	None
12:05	6	150	6.68	1.88	7	9.86	21.50	0.17	13.9	-56.2	Clear	None
12:08	3	150	6.68	2	7.01	9.85	17.20	0.15	13.9	-57.8	Clear	Normal
12:11	3	150	6.68	2.12	7.01	9.83	12.10	0.15	13.9	-58.9	Clear	None
12:14	3	150	6.72	2.24	7.01	9.86	19.80	0.14	13.9	-59.8	Clear	None
12:18	4	150	6.72	2.4	7.01	9.86	19.30	0.14	13.8	-61.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	6	HCL
1,4-dioxane	40 mL Glass	6	HCL

Comments

--

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:	Inside test track	Well Locked at Arrival:	n/a
Condition of Well:	Missing bolts,Poor,Vault broken	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-23			Date	6/10/2019
Project Name/Location	Ford LTP			Weather	64.94 degrees F and Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.41	Total Depth (ft-bmp)	17.00	Water Column (ft.)	11.59	Gallons in Well	1.88
		Pump Intake (ft-bmp)	15.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.37				
Sample Time: Label	17:13	Volume Purged	9766.36 ml	Replicate/Code No.	--	Sampled by	Julia McClafferty
Purge Start	16:06						
Purge End	17:15						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:07	0	175	5.59	0	7.84	3.45	104.00	0.60	13.4	55.3	Cloudy	None
16:12	5	150	5.60	0.23	7.46	5.85	82.30	0.38	13.4	63.9	Cloudy	None
16:17	5	150	5.57	0.43	7.38	6.53	42.70	0.22	13.4	62.5	Clear	None
16:21	4	175	5.61	0.59	7.41	6.54	38.50	0.22	13.1	58.6	Clear	None
16:24	3	175	5.62	0.73	7.42	6.55	32.30	0.17	13.0	56.7	Clear	None
16:27	3	175	5.62	0.87	7.43	6.60	27.80	0.17	13.0	56.1	Clear	None
16:31	4	175	5.62	1.05	7.41	6.74	18.90	0.17	13.0	54.6	Clear	None
16:35	4	175	5.62	1.23	7.4	6.77	13.50	0.17	13.1	53.3	Clear	None
16:38	3	150	5.59	1.37	7.4	6.76	13.20	0.20	13.3	51.8	Clear	None
16:41	3	150	5.59	1.49	7.4	6.75	8.10	0.18	13.4	50.9	Clear	None
16:44	3	150	5.60	1.61	7.41	6.62	20.80	0.21	13.3	47.8	Clear	None
16:47	3	100	5.60	1.73	7.4	6.68	8.19	0.14	13.3	49.0	Clear	None
16:50	3	175	5.62	1.81	7.4	6.57	11.70	0.17	13.0	47.3	Clear	None
16:54	4	175	5.63	1.99	7.39	6.59	8.67	0.15	13.1	46.8	Clear	None
16:58	4	175	5.63	2.17	7.39	6.63	9.08	0.14	13.1	46.1	Clear	None
17:02	4	175	5.63	2.35	7.38	6.62	7.00	0.13	13.1	45.4	Clear	None
17:02	4	175	5.63	2.35	7.38	6.58	7.00	0.13	13.1	45.4	Clear	None
17:07	5	175	5.63	2.58	7.38	--	11.80	0.12	13.0	44.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
VOCs	40 mL Glass	3	HCL

Comments

--

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:	25 feet from fence (marked with black tie on fence)	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

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-24			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	73.94 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	19-24	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.28	Total Depth (ft-bmp)	23.89	Water Column (ft.)	14.61	Gallons in Well	2.37
		Pump Intake (ft-bmp)	21.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.32				
Sample Time: Label	16:27	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	15:25						
Purge End	16:30						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:26	0	200	9.28	0	7.02	4.74	495.00	2.06	11.9	-36.6	Orange	None
15:31	5	200	9.28	0.26	6.94	4.40	421.00	0.77	9.7	-38.7	Clear	None
15:36	5	200	9.28	0.52	6.92	4.25	376.00	0.84	9.6	-40.5	Clear	None
15:41	5	200	9.28	0.78	6.92	4.27	298.00	1.90	9.3	-43.5	Clear	None
15:46	5	200	9.28	1.04	6.91	2.26	231.00	1.21	9.2	-47.4	Clear	None
15:51	5	200	9.28	1.3	6.92	4.23	180.00	1.42	9.3	-49.5	Clear	None
15:56	5	200	9.28	1.56	6.92	4.21	146.00	0.65	8.7	-51.7	Clear	None
16:01	5	200	9.28	1.82	6.92	4.16	124.00	0.70	8.8	-55.2	Clear	None
16:06	5	200	9.28	2.08	6.93	4.10	98.80	0.90	9.0	-59.1	Clear	None
16:11	5	200	9.28	2.34	6.93	4.05	80.50	0.59	9.0	-62.6	Clear	None
16:16	5	200	9.28	2.6	6.9	4.06	65.20	0.27	9.0	-65.0	Clear	None
16:21	5	200	9.28	2.86	6.94	4.05	50.80	0.32	8.8	-67.4	Clear	None
16:26	5	200	9.28	3.12	6.93	4.03	40.00	0.57	9.0	-69.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	S grass	Well Locked at Arrival:	n/a
Condition of Well:	Fair	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-25			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	64.04 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.94	Total Depth (ft-bmp)	20.48	Water Column (ft.)	15.54	Gallons in Well	2.53
		Pump Intake (ft-bmp)	18.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.23				
Sample Time: Label	14:29	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	13:28						
Purge End	14:33						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:28	0	200	4.94	0	7.33	7.30	43.50	1.28	16.1	-9.6	Clear	None
13:33	5	200	4.94	0.26	7.36	7.26	40.00	0.48	16.0	-55.2	Clear	None
13:38	5	200	4.94	0.52	7.36	7.21	33.40	0.25	15.6	-82.6	Clear	None
13:43	5	200	4.94	0.78	7.36	7.22	26.50	0.18	15.8	-96.4	Clear	None
13:48	5	200	4.94	1.04	7.37	7.25	26.10	0.16	15.6	-103.6	Clear	None
13:53	5	200	4.94	1.3	7.37	7.30	20.60	0.15	15.6	-109.6	Clear	None
13:58	5	200	4.94	1.56	7.38	7.34	22.00	0.30	15.4	-133.1	Clear	Clear
14:03	5	200	4.94	1.82	7.38	7.34	10.70	0.14	15.3	-166.1	Clear	None
14:08	5	200	4.94	2.08	7.39	7.35	11.70	0.19	15.3	-119.2	Clear	None
14:13	5	200	4.94	2.34	7.39	7.33	12.70	0.11	15.2	-121.4	Clear	None
14:18	5	200	4.94	2.6	7.39	7.33	6.83	0.11	15.1	-123.1	Clear	None
14:23	5	200	4.94	2.86	7.39	7.32	6.88	0.32	15.1	-125.0	Clear	None
14:28	5	200	4.94	3.12	7.39	7.32	6.72	0.41	15.0	-126.0	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	W parking lot	Well Locked at Arrival:	n/a
Condition of Well:	Broken thread tabs,Fair,Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-26			Date	6/13/2019
Project Name/Location		Ford LTP		Weather	57 F cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.5-14.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.05	Total Depth (ft-bmp)	14.50	Water Column (ft.)	9.45	Gallons in Well	1.54
		Pump Intake (ft-bmp)	12.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.79				
Sample Time: Label	10:45	Volume Purged	10447.74 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	9:45						
Purge End	10:40						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:45	0	175	5.05	0	6.99	1.56	36.90	0.79	12.2	148.3	Clear	None
9:50	5	175	5.05	0.23	6.92	1.51	34.20	0.23	12.1	139.5	Clear	None
9:55	5	175	5.05	0.46	6.96	1.48	19.00	0.17	12.0	131.2	Clear	None
10:00	5	175	5.05	0.69	6.94	1.47	20.50	0.13	12.0	123.4	Clear	None
10:05	5	175	5.08	0.92	6.95	1.48	17.10	0.12	12.0	115.6	Clear	None
10:10	5	175	5.08	1.15	6.96	1.49	16.90	0.14	12.0	108.7	Clear	None
10:15	5	175	5.06	1.38	6.97	1.49	11.40	0.14	11.9	100.0	Clear	None
10:20	5	175	5.06	1.61	6.97	1.49	8.35	0.14	11.9	91.8	Clear	None
10:25	5	175	5.05	1.84	6.98	1.51	7.97	0.12	11.9	83.9	Clear	None
10:30	5	175	5.05	2.07	6.98	1.52	7.46	0.12	11.9	78.2	Cear	None
10:35	5	175	5.05	2.3	6.99	1.51	7.10	0.13	11.9	69.6	Clear	None
10:40	5	175	5.05	2.53	6.99	1.51	7.49	0.10	11.9	62.4	Clear	None
10:45	5	175	5.05	2.76	6.99	1.52	5.69	0.10	11.9	55.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Inside gate	Well Locked at Arrival:	n/a
Condition of Well:	Broken thread tabs,Fair	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-28			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	69.98 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2-12	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.60	Total Depth (ft-bmp)	11.64	Water Column (ft.)	8.04	Gallons in Well	1.31
		Pump Intake (ft-bmp)	9.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.28				
Sample Time: Label	13:53	Volume Purged	1.68 gallons	Replicate/Code No.	DUP-04_061119	Sampled by	Jonathon Lust
Purge Start	13:13						
Purge End	13:53						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:13	0	160	3.60	0	7.13	32.86	4.11	0.41	15.6	-23.1	Clear	None
13:18	5	160	3.62	0.21	7.11	32.33	3.52	0.20	16.6	-60.8	Clear	None
13:23	5	160	3.64	0.42	7.09	32.23	2.39	0.16	16.8	-88.6	Clear	None
13:28	5	160	3.66	0.63	7.08	31.40	2.10	0.16	16.7	-97.1	Clear	None
13:33	5	160	3.67	0.84	7.06	30.01	1.50	0.16	16.8	-104.7	Clear	None
13:38	5	160	3.68	1.05	7.05	28.95	2.63	0.13	16.7	-110.2	Clear	None
13:43	5	160	3.67	1.26	7.05	27.98	1.69	0.16	16.9	-114.8	Clear	None
13:48	5	160	3.67	1.47	7.04	27.66	1.59	0.15	16.8	-115.7	Clear	None
13:53	5	160	3.70	1.68	7.04	27.19	1.34	0.17	16.8	-117.6	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±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	12	HCL
--	--	--	--

Comments --

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:	Employee parking just south of guard booth	Well Locked at Arrival:	n/a
Condition of Well:	Broken thread tabs,Missing bolts,Poor	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-29			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	62.96 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-15	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.74	Total Depth (ft-bmp)	15.00	Water Column (ft.)	10.26	Gallons in Well	1.67
		Pump Intake (ft-bmp)	10.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.88				
Sample Time: Label	10:27	Volume Purged	3.14 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	9:25						
Purge End	10:31						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:26	0	200	9.28	0	3.48	13.95	26.20	2.35	14.9	246.1	Clear	None
9:31	5	200	9.28	0.26	6.9	14.02	5.77	0.37	14.4	69.9	Clear	None
9:36	5	200	9.28	0.52	7.19	13.99	0.43	0.22	14.5	52.2	Clear	None
9:41	5	200	9.28	0.78	7.21	13.99	0.02	0.23	14.6	47.4	Clear	None
9:45	4	200	9.28	0.99	7.21	13.91	0.97	0.19	14.4	42.4	Clear	None
9:51	6	200	9.28	1.31	7.22	13.97	0.02	0.15	14.5	34.2	Clear	None
9:56	5	200	9.28	1.57	7.21	13.84	0.02	0.14	14.5	26.9	Clear	None
10:01	5	200	9.28	1.83	7.23	13.61	0.40	0.15	14.6	17.3	Clear	None
10:06	5	200	9.28	2.09	7.21	13.56	0.78	0.15	14.5	10.9	Clear	None
10:11	5	200	9.28	2.35	7.18	13.52	0.79	0.14	14.5	1.2	Clear	None
10:16	4	200	9.28	2.62	7.17	13.52	0.02	0.15	14.5	-6.5	Clear	None
10:21	5	200	9.28	2.88	7.17	13.49	0.02	0.14	14.4	-13.8	Clear	None
10:26	5	200	9.28	3.14	7.17	13.50	0.02	0.11	14.5	-21.0	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Inside gate	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

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-30			Date	6/15/2019
Project Name/Location		Ford LTP		Weather	66 F cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	19-24	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.55	Total Depth (ft-bmp)	24.74	Water Column (ft.)	16.19	Gallons in Well	2.63
		Pump Intake (ft-bmp)	22.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.05				
Sample Time: Label	13:30	Volume Purged	10447.74 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	12:23						
Purge End	13:25						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:25	0	175	9.34	0	7.25	4.94	57.90	1.05	14.2	-88.5	Clear	None
12:30	5	175	9.55	0.23	7.31	4.95	57.80	0.36	14.2	-101.3	Clear	None
12:35	5	175	9.65	0.46	7.33	4.96	43.90	0.28	14.2	-104.4	Clear	None
12:40	5	175	9.65	0.69	7.34	4.91	45.60	0.23	14.2	-105.5	Clear	None
12:45	5	175	9.69	0.92	7.34	4.86	35.10	0.29	14.3	-106.8	Clear	None
12:50	5	175	9.72	1.15	7.35	4.80	31.90	0.22	14.0	-108.9	Clear	None
12:55	5	175	9.77	1.38	7.35	4.76	33.60	0.61	14.0	-109.6	Clear	None
13:00	5	175	9.77	1.61	7.35	4.94	15.20	0.27	14.1	-110.2	Clear	None
13:05	5	175	9.79	1.84	7.35	4.92	19.50	0.85	14.1	-110.1	Clear	None
13:10	5	175	9.79	2.07	7.35	4.90	22.10	0.21	14.2	-110.6	Clear	None
13:15	5	175	9.79	2.3	7.36	4.89	14.90	0.16	14.2	-112.2	Clear	None
13:20	5	175	9.82	2.53	7.36	4.87	18.80	0.14	14.2	-113.1	Clear	None
13:25	5	175	9.82	2.76	7.36	4.83	12.80	0.47	15.1	-111.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	East side of site	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-31			Date	6/15/2019
Project Name/Location		Ford LTP		Weather	66 F cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	17-22	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.55	Total Depth (ft-bmp)	21.68	Water Column (ft.)	13.13	Gallons in Well	2.13
		Pump Intake (ft-bmp)	19.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.65				
Sample Time: Label	11:30	Volume Purged	5223.87 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	10:52						
Purge End	11:25						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:55	0	175	8.74	0	7.32	14.09	4.14	0.65	14.0	-39.9	Clear	None
11:00	5	175	8.74	0.23	7.26	13.99	2.17	0.28	13.6	-54.1	Clear	None
11:05	5	175	8.69	0.46	7.25	13.93	2.03	0.24	13.7	-56.8	Clear	None
11:10	5	175	8.68	0.69	7.25	13.82	1.85	0.20	13.6	-58.3	Clear	None
11:15	5	175	8.68	0.92	7.25	13.70	0.83	0.27	13.6	-59.9	Clear	None
11:20	5	175	8.68	1.15	7.25	13.66	1.09	0.18	13.6	-59.7	Clear	None
11:25	5	175	8.68	1.38	7.25	13.63	1.83	0.15	13.6	-59.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	East side of site	Well Locked at Arrival:	n/a
Condition of Well:	Broken thread tabs,Fair,Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-32			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	67 F sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	18-23	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.20	Total Depth (ft-bmp)	19.93	Water Column (ft.)	11.73	Gallons in Well	1.91
		Pump Intake (ft-bmp)	16.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.66				
Sample Time: Label	12:00	Volume Purged	12037.61 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	10:46						
Purge End	11:55						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:47	0	225	8.60	0	7.06	5.14	12.90	1.10	12.7	-114.4	Clear	None
10:51	4	225	8.70	0.24	7.05	5.14	12.40	1.39	12.6	-111.2	Clear	None
10:55	4	200	8.71	0.48	7.04	5.13	19.50	0.95	12.6	-108.0	Clear	None
10:59	4	200	8.71	0.69	7.04	5.15	18.00	0.97	12.4	-106.2	Clear	None
11:03	4	190	8.71	0.9	7.04	5.12	12.90	0.90	12.4	-105.9	Clear	None
11:07	4	190	8.71	1.1	7.04	5.11	9.10	0.68	12.5	-106.4	Clear	None
11:11	4	190	8.71	1.3	7.04	5.09	9.56	0.68	12.4	-107.3	Clear	None
11:15	4	190	8.73	1.5	7.05	5.08	11.90	0.79	12.5	-108.7	Clear	None
11:20	5	190	8.73	1.75	7.04	5.06	11.10	0.33	12.6	-110.1	Clear	None
11:25	5	190	8.74	2	7.04	5.06	10.20	0.42	12.4	-111.3	Clear	None
11:30	5	190	8.73	2.25	7.04	5.04	6.58	0.35	12.4	-112.9	Clear	None
11:35	5	200	8.73	2.5	7.04	5.03	5.50	0.37	12.3	-114.3	Clear	None
11:40	5	200	8.68	2.76	7.04	5.03	3.45	0.45	12.6	-115.8	Clear	None
11:45	5	200	8.65	3.02	7.05	5.02	3.92	0.43	12.5	-116.7	Clear	None
11:48	3	190	8.71	3.18	7.05	5.08	3.22	0.45	13.3	-117.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Southeast corner of site	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-33			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	74 F sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	14-19	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.00	Total Depth (ft-bmp)	18.83	Water Column (ft.)	11.83	Gallons in Well	1.92
		Pump Intake (ft-bmp)	16.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.46				
Sample Time: Label	16:10	Volume Purged	10637.01 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	15:06						
Purge End	16:09						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:07	0	175	7.27	0	7.14	3.07	57.20	0.53	13.4	-132.5	Yellow	None
15:12	5	175	7.27	0.23	7.07	3.07	133.00	0.26	13.2	-130.4	Yellow	None
15:15	3	175	7.21	0.37	7.04	3.13	23.80	0.20	13.2	-127.3	Clear	None
15:20	5	175	7.22	0.6	7.02	3.25	20.40	0.16	13.2	-124.5	Clear	None
15:25	5	175	7.22	0.83	7.01	3.30	10.30	0.16	13.3	-123.9	Clear	None
15:30	5	175	7.22	1.06	7	3.38	11.30	0.17	13.0	-123.0	Clear	None
15:35	5	175	7.22	1.29	7	3.36	7.77	0.13	12.9	-123.3	Clear	None
15:40	5	175	7.22	1.52	7	3.35	6.51	0.12	13.4	-124.9	Clear	None
15:45	5	175	7.22	1.75	7	3.45	6.74	0.11	12.9	-124.1	Clear	None
15:51	6	175	7.22	2.03	7.01	3.41	2.74	0.10	12.8	-124.1	Clear	None
15:56	5	175	7.22	2.26	7.02	3.49	3.45	0.18	12.5	-122.4	Clear	None
16:01	5	175	7.22	2.49	7.02	3.44	4.09	0.12	12.3	-123.8	Clear	None
16:05	4	175	7.22	2.67	7.02	3.48	3.69	0.20	13.2	-121.7	Clear	None
16:08	3	175	7.22	2.81	7.03	3.46	2.62	0.11	12.4	-122.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	South part of site	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-34			Date	6/15/2019
Project Name/Location		Ford LTP		Weather	64.94 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16.5-21.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.14	Total Depth (ft-bmp)	20.20	Water Column (ft.)	12.06	Gallons in Well	1.96
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.82				
Sample Time: Label	9:52	Volume Purged	1.61 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	9:16						
Purge End	9:52						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:20	0	150	8.72	0	7.13	8.97	5.95	0.36	14.2	-64.4	Clear	None
9:27	7	150	8.72	0.46	7.15	8.91	5.55	0.25	14.2	-70.5	Clear	None
9:32	5	150	8.72	0.79	7.16	8.81	4.42	0.23	14.5	-70.1	Clear	None
9:36	4	150	8.72	1.05	7.16	8.79	4.38	0.23	14.2	-70.4	Clear	None
9:39	3	150	8.72	1.17	7.16	8.72	4.30	0.21	14.2	-70.6	Clear	None
9:44	5	150	8.72	1.37	7.17	8.71	3.78	0.20	14.1	-71.0	Clear	None
9:47	3	150	8.72	1.49	7.17	8.60	3.99	0.16	13.9	-70.9	Clear	None
9:50	3	150	8.72	1.61	7.17	8.57	3.17	0.16	14.0	-70.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Side of road in median	Well Locked at Arrival:	n/a
Condition of Well:	Broken thread tabs	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-35			Date	6/15/2019
Project Name/Location		Ford LTP		Weather	68.00 degrees F and Cloudy		
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)	6.75	Total Depth (ft-bmp)	24.55	Water Column (ft.)	17.80	Gallons in Well	2.89
		Pump Intake (ft-bmp)	21.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.99				
Sample Time: Label	15:05	Volume Purged	2.85 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	13:55						
Purge End	15:05						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:55	0	175	7.69	0	7.65	2.50	9.39	0.78	15.1	-131.9	Clear	None
14:00	5	175	7.69	0.23	7.63	2.50	10.60	0.27	15.2	-132.2	Clear	None
14:05	5	175	7.69	0.46	7.62	2.50	20.60	0.22	14.9	-134.7	Clear	None
14:10	5	175	7.69	0.69	7.63	2.49	27.70	0.20	14.9	-134.6	Clear	None
14:15	5	175	7.69	0.92	7.63	2.50	42.40	0.15	14.9	-134.9	Clear	None
14:20	5	175	7.69	1.15	7.63	2.50	43.70	0.15	14.7	-135.1	Clear	None
14:24	4	175	7.69	1.33	7.62	2.50	75.30	0.12	14.7	-135.6	Clear	None
14:27	3	175	7.69	1.47	7.63	2.50	70.50	0.14	14.8	-135.7	Clear	None
14:30	3	175	7.69	1.61	7.63	2.50	71.10	0.15	14.6	-135.8	Clear	None
14:34	4	175	7.69	1.79	7.62	2.50	69.30	0.11	14.5	-135.9	Clear	None
14:37	3	175	7.69	1.93	7.63	2.50	69.90	0.10	14.6	-136.6	Clear	None
14:40	3	175	7.69	2.07	7.63	2.50	69.00	0.10	14.6	-137.3	Clear	None
14:45	5	175	7.69	2.3	7.63	2.51	69.20	0.11	14.5	-137.9	Clear	None
14:48	3	175	7.69	2.44	7.5	2.51	59.70	0.11	14.2	-138.2	Clear	None
14:52	4	175	7.69	2.62	7.63	2.50	78.70	0.11	14.4	-139.2	Clear	None
14:57	5	175	7.69	2.85	7.62	2.51	62.40	0.10	14.4	-140.2	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Turbidity remained in the 60 to 80 range without going down

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:	Median of road	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-36			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	75.92 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	20-25	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.00	Total Depth (ft-bmp)	24.89	Water Column (ft.)	15.89	Gallons in Well	2.58
		Pump Intake (ft-bmp)	22.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.21				
Sample Time: Label	18:29	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	17:27						
Purge End	18:33						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
17:28	0	200	9.00	0	7.23	10.49	67.30	2.40	9.3	23.9	Clear, orange flecks	None
17:33	5	200	9.00	0.26	7.21	10.47	46.40	0.47	9.1	-19.3	Clear	None
17:38	5	200	9.00	0.52	7.22	10.48	21.80	0.50	8.8	-41.3	Clear	None
17:43	5	200	9.80	0.78	7.22	10.45	14.10	0.40	9.1	-64.3	Clear	None
17:48	5	200	9.80	1.04	7.22	9.43	15.60	0.19	12.7	-80.4	Clear	None
17:53	5	200	9.80	1.3	7.22	9.41	17.30	0.20	12.9	-90.0	Clear	None
17:58	5	200	9.80	1.56	7.22	9.41	13.70	0.19	12.7	-95.3	Clear	None
18:03	5	200	9.80	1.82	7.22	9.36	12.10	0.21	12.9	-99.9	Clear	None
18:08	5	200	9.80	2.08	7.23	9.36	10.00	0.27	12.9	-103.3	Clear	None
18:13	5	200	9.80	2.34	7.23	9.36	7.50	0.13	12.6	-106.6	Clear	None
18:18	5	200	9.80	2.6	7.23	9.36	6.28	0.20	12.6	-109.6	Clear	None
18:23	5	200	9.80	2.86	7.24	9.35	4.57	0.21	12.8	-111.7	Clear	None
18:28	5	200	9.80	3.12	7.24	9.33	6.85	0.17	12.6	-113.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	S grass	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-37			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	66 F cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	18-23	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.76	Total Depth (ft-bmp)	22.92	Water Column (ft.)	16.16	Gallons in Well	2.63
		Pump Intake (ft-bmp)	20.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.05				
Sample Time: Label	16:30	Volume Purged	10447.74 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	15:20						
Purge End	16:25						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:25	0	175	7.00	0	7.41	2.78	188.00	0.44	13.1	-156.3	Yellow	None
15:30	5	175	7.00	0.23	7.39	2.77	112.00	0.26	13.1	-152.0	Yellow	None
15:35	5	175	7.00	0.46	7.37	2.65	89.10	0.18	12.7	-147.0	Yellow	None
15:40	5	175	7.00	0.69	7.34	2.58	57.10	0.23	12.8	-146.3	Clear	None
15:45	5	175	7.00	0.92	7.33	2.50	41.60	0.14	12.7	-145.4	Clear	None
15:50	5	175	7.00	1.15	7.32	2.47	41.10	0.52	12.6	-145.2	Clear	None
15:55	5	175	7.05	1.38	7.31	2.39	41.60	0.51	12.7	-145.2	Clear	None
16:00	5	175	7.05	1.61	7.3	2.38	33.50	0.52	12.7	-145.4	Clear	None
16:05	5	175	7.05	1.84	7.29	2.32	20.80	0.52	12.7	-145.1	Clear	None
16:10	5	175	7.05	2.07	7.29	2.30	21.80	0.54	13.2	-143.4	Clear	None
16:15	5	175	7.05	2.3	7.28	2.26	15.80	0.49	12.8	-144.4	Clear	None
16:20	5	175	7.05	2.53	7.27	2.25	16.70	0.49	12.8	-144.9	Clear	None
16:25	5	175	7.05	2.76	7.27	2.22	16.60	0.49	12.6	-145.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	South part of site	Well Locked at Arrival:	n/a
Condition of Well:	Good,Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-38			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	75 F sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.00	Total Depth (ft-bmp)	19.59	Water Column (ft.)	12.59	Gallons in Well	2.05
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.37				
Sample Time: Label	17:45	Volume Purged	10637.01 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	16:40						
Purge End	17:45						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:44	0	175	7.40	0	7.32	2.40	30.80	0.61	12.6	-124.2	Clear	None
16:50	6	175	7.40	0.28	7.29	2.41	29.20	0.33	12.5	-138.9	Clear	None
16:55	5	175	7.40	0.51	7.28	2.39	19.10	0.26	12.6	-142.5	Clear	None
17:00	5	175	7.40	0.74	7.25	2.38	23.80	0.25	12.5	-141.8	Clear	None
17:05	5	175	7.40	0.97	7.24	2.37	14.40	0.22	12.4	-142.7	Clear	None
17:10	5	175	7.40	1.2	7.21	2.37	9.58	0.18	12.7	-142.4	Clear	None
17:15	5	175	7.41	1.43	7.23	2.37	8.21	0.16	12.8	-145.3	Clear	None
17:20	5	175	7.41	1.66	7.23	2.37	7.03	0.16	12.2	-146.9	Clear	None
17:25	5	175	7.41	1.89	7.2	2.39	8.68	0.16	12.8	-145.5	Clear	None
17:30	5	175	7.41	2.12	7.2	2.39	8.38	0.14	12.3	-145.9	Clear	None
17:35	5	175	7.41	2.35	7.25	2.34	8.35	0.12	12.6	-151.2	Clear	None
17:40	5	175	7.41	2.58	7.24	2.35	4.55	0.13	12.4	-152.2	Clear	None
17:45	5	175	7.41	2.81	7.22	2.38	3.88	0.14	12.6	-151.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	South side of site	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-39			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	73 F sunny		
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)	9.85	Total Depth (ft-bmp)	24.10	Water Column (ft.)	14.25	Gallons in Well	2.32
		Pump Intake (ft-bmp)	21.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.88				
Sample Time: Label	14:00	Volume Purged	7684.39 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	13:16						
Purge End	14:00						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:16	0	200	9.82	0	7.02	5.35	14.10	0.68	13.9	-64.7	Clear	None
13:21	5	200	9.82	0.26	7.04	5.02	11.30	0.78	13.7	-64.1	Clear	None
13:25	4	200	9.81	0.47	7.04	4.79	7.43	0.77	13.5	-60.6	Clear	None
13:30	5	200	9.81	0.73	7.03	4.69	5.15	0.65	13.6	-58.1	Clear	None
13:35	5	200	9.85	0.99	7	4.63	2.42	0.62	13.5	-57.1	Clear	None
13:40	5	200	9.82	1.25	7.02	4.57	2.72	0.57	13.5	-56.1	Clear	None
13:45	5	200	9.82	1.51	7.02	4.52	3.64	0.43	13.6	-56.2	Clear	None
13:50	5	200	9.82	1.77	7.02	4.49	2.20	0.35	13.5	-56.9	Clear	None
13:55	5	210	9.82	2.03	7.02	4.49	1.57	0.35	13.4	-57.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Southeast of site	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-40			Date	6/15/2019
Project Name/Location		Ford LTP		Weather	66F cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.40	Total Depth (ft-bmp)	19.65	Water Column (ft.)	11.25	Gallons in Well	1.83
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.28				
Sample Time: Label	10:10	Volume Purged	8895.72 ml	Replicate/Code No.	MW-40-MS/MSD_061519	Sampled by	Emma Witherspoon
Purge Start	9:04						
Purge End	9:56						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:05	0	175	8.48	0	7.03	12.46	21.20	2.38	14.0	-26.0	Clear	None
9:10	5	175	8.49	0.23	7.04	13.21	12.90	0.29	13.7	-58.8	Clear	None
9:15	5	175	8.48	0.46	7.07	13.13	11.10	0.22	13.9	-59.0	Clear	None
9:20	5	175	8.48	0.69	7.08	13.22	7.89	0.23	13.6	-59.3	Clear	None
9:25	5	175	8.50	0.92	7.08	15.02	6.41	0.21	13.6	-60.1	Clear	None
9:30	5	175	8.50	1.15	7.09	15.04	7.90	0.22	13.6	-62.0	Clear	None
9:35	5	175	8.50	1.38	7.1	15.04	7.38	0.19	13.6	-64.1	Clear	None
9:40	5	175	8.50	1.61	7.1	15.02	6.74	0.17	13.6	-65.9	Clear	None
9:45	5	175	8.50	1.84	7.11	15.00	2.72	0.15	13.6	-67.4	Clear	None
9:50	5	175	8.50	2.07	7.11	14.98	4.80	0.15	13.6	-68.7	Clear	None
9:56	6	175	8.50	2.35	7.12	14.96	2.47	0.16	13.6	-69.2	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	9	HCL
1,4-dioxane	40 mL Glass	9	HCL

Comments .

--

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:	Southeast corner or site	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-41			Date	6/15/2019
Project Name/Location	Ford LTP			Weather	69.08 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.78	Total Depth (ft-bmp)	21.13	Water Column (ft.)	13.35	Gallons in Well	2.17
		Pump Intake (ft-bmp)	18.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.55				
Sample Time: Label	16:46	Volume Purged	1.2 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	16:11						
Purge End	16:49						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:13	0	150	8.10	0	7.18	7.34	41.10	0.61	14.3	-67.4	Clear	NA
16:18	5	150	8.09	0.2	7.23	7.43	30.30	0.29	14.2	-103.7	Clear	NA
16:23	5	150	8.09	0.4	7.25	7.42	25.40	0.17	14.2	-116.5	Clear	NA
16:28	5	150	8.09	0.6	7.25	7.52	28.00	0.15	13.9	-126.0	Clear	NA
16:33	5	150	8.09	0.8	7.26	7.54	11.10	0.12	14.0	-130.0	Clear	NA
16:37	4	150	8.09	0.96	7.26	7.57	7.20	0.13	14.1	-132.3	Clear	NA
16:40	3	150	8.09	1.08	7.26	7.60	7.48	0.13	14.1	-134.6	Clear	NA
16:43	3	150	8.09	1.2	7.26	7.64	6.83	0.11	14.1	-136.1	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments

--

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:	E Road	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-42			Date	6/15/2019
Project Name/Location		Ford LTP		Weather	66.02 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.49	Total Depth (ft-bmp)	19.42	Water Column (ft.)	11.93	Gallons in Well	1.94
		Pump Intake (ft-bmp)	16.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.80				
Sample Time: Label	13:11	Volume Purged	1.56 gallons	Replicate/Code No.	MW-42_061519	Sampled by	Patrick Labadie
Purge Start	12:29						
Purge End	13:11						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:31	0	150	7.69	0	7.27	3.52	18.90	0.79	14.8	-116.5	Clear	None
12:36	5	150	7.69	0.2	7.26	3.55	11.60	0.47	14.6	-111.7	Clear	None
12:41	5	150	7.69	0.4	7.27	3.54	9.31	0.55	14.4	-112.6	Clear	None
12:46	5	150	7.69	0.6	7.28	3.55	6.63	0.17	14.3	-113.4	Clear	None
12:51	5	150	7.69	0.8	7.28	3.55	6.13	0.17	14.3	-114.0	Clear	None
12:56	5	175	7.69	1	7.28	3.54	7.36	0.33	14.3	-115.3	Clear	None
12:59	3	175	7.69	1.14	7.28	3.56	7.36	0.30	14.4	-115.6	Clear	None
13:02	3	175	7.69	1.28	7.28	3.57	4.96	0.32	14.4	-115.3	Clear	None
13:05	3	175	7.69	1.42	7.28	3.58	3.70	0.32	14.3	-115.3	Clear	None
13:08	3	175	7.69	1.56	7.27	3.59	3.98	0.28	14.4	-115.2	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	9	HCL
1,4-dioxane	40 mL Glass	9	HCL

Comments --

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:	In median off road	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-43			Date	6/15/2019
Project Name/Location	Ford LTP			Weather	64.94 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	17-22	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.51	Total Depth (ft-bmp)	21.83	Water Column (ft.)	15.32	Gallons in Well	2.49
		Pump Intake (ft-bmp)	19.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.63				
Sample Time: Label	14:24	Volume Purged	1.57 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	13:47						
Purge End	14:27						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:50	0	200	6.77	0	7.29	6.57	58.60	0.21	15.0	-116.9	Clear	NA
13:55	5	200	6.77	0.26	7.31	6.43	43.40	0.17	14.6	-124.8	Clear	NA
14:00	5	200	6.77	0.52	7.33	6.37	38.90	0.15	14.7	-132.8	Clear	NA
14:05	5	200	6.76	0.78	7.34	6.38	27.50	0.12	14.6	-137.1	Clear	NA
14:10	5	200	6.76	1.04	7.36	6.34	21.00	0.09	14.4	-141.9	Clear	NA
14:14	4	200	6.76	1.25	7.36	6.28	20.90	0.10	14.4	-144.4	Clear	NA
14:17	3	200	6.76	1.41	7.36	6.27	21.20	0.11	14.5	-146.9	Clear	NA
14:20	3	200	6.76	1.57	7.36	6.25	19.90	0.10	14.5	-147.9	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments

--

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:	E Road	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-44			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	55.04 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.41	Total Depth (ft-bmp)	20.72	Water Column (ft.)	13.31	Gallons in Well	2.16
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.01				
Sample Time: Label	10:26	Volume Purged	2.19 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	9:30						
Purge End	10:25						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:33	0	200	7.60	0	7.31	7.70	24.10	0.46	14.0	-118.4	Clear	None
9:39	6	200	7.60	0.32	7.33	7.76	22.70	0.88	13.9	-122.0	Clear	None
9:42	3	220	7.60	0.48	7.32	7.75	22.00	0.90	13.8	-122.5	Clear	None
9:46	4	220	7.60	0.71	7.68	7.68	12.20	0.89	13.8	-119.9	Clear	None
9:50	4	225	7.60	0.94	7.32	7.63	10.60	0.92	13.9	-117.8	Clear	None
9:56	6	225	7.60	1.3	7.31	7.56	6.35	0.86	13.8	-118.9	Clear	None
10:00	4	225	7.60	1.53	7.31	7.52	6.82	0.80	13.8	-120.6	Clear	None
10:04	4	225	7.60	1.77	7.31	7.48	3.78	0.80	13.9	-117.5	Clear	None
10:07	3	225	7.60	1.95	7.31	7.46	3.72	0.83	14.0	-118.6	Clear	None
10:11	4	225	7.60	2.19	7.32	7.43	2.40	0.86	14.0	-119.7	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Middle of test track	Well Locked at Arrival:	n/a
Condition of Well:	Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-45			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	69 degrees Fahrenheit and sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.50	Total Depth (ft-bmp)	19.71	Water Column (ft.)	10.21	Gallons in Well	1.66
		Pump Intake (ft-bmp)	17.29	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.67				
Sample Time: Label	13:09	Volume Purged	10523.45 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	12:00						
Purge End	13:14						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:01	0	150	9.59	0	2.27	2.34	110.00	9.75	20.3	481.2	Yellow brown	None
12:07	6	150	9.59	0.24	3.18	2.21	83.90	1.78	14.9	134.3	Yellow brown	None
12:13	6	150	9.59	0.48	4.75	2.48	54.90	1.01	14.3	49.1	Yellow brown	None
12:20	7	150	9.60	0.76	6.03	2.72	35.70	0.60	14.6	-29.7	Yellow	None
12:25	5	150	9.60	0.96	6.85	2.71	19.30	0.67	15.3	-77.0	Yellow	None
12:30	5	175	9.60	1.16	7.21	2.88	26.40	0.34	14.5	-99.9	Yellow	None
12:39	9	175	9.60	1.58	7.59	2.96	15.00	0.26	14.8	-124.5	Clear	None
12:44	5	175	9.60	1.81	7.7	3.01	15.10	0.21	14.5	-132.6	Clear	None
12:50	6	175	9.60	2.09	7.76	3.06	20.10	0.17	14.4	-137.2	Clear	None
12:55	5	175	9.60	2.32	7.77	3.09	17.30	0.16	14.5	-138.2	Clear	None
13:00	5	175	9.60	2.55	7.73	3.12	19.50	0.14	14.4	-136.5	Clear	None
13:05	5	175	9.60	2.78	7.74	3.14	14.70	0.13	14.3	-137.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Turbidity was not completely stable but is lower than 50 NTU

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:	Outside of test track	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

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-46			Date	6/11/2019
Project Name/Location		Ford LTP		Weather		78°F and sunny	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.28	Total Depth (ft-bmp)	19.64	Water Column (ft.)	10.36	Gallons in Well	1.68
		Pump Intake (ft-bmp)	17.20	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.76				
Sample Time: Label	18:12	Volume Purged	11166.97 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	16:58						
Purge End	18:15						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
17:02	0	175	9.00	0	7.61	0.001	95.10	106.70	34.4	854.1	Yellow	None
17:08	6	175	10.10	0.28	7.42	2.61	14.60	8.44	16.5	307.3	Slightly yellow	None
17:13	5	175	10.10	0.51	7.08	2.63	10.40	8.05	17.6	-84.7	Slightly yellow	None
17:19	6	175	10.10	0.79	6.96	2.66	9.92	7.64	18.2	-78.4	Clear	None
17:26	7	175	10.08	1.11	7.07	4.04	12.30	7.39	15.4	-76.4	Clear	None
17:31	5	175	10.08	1.34	7.17	4.38	12.30	7.29	14.6	-78.7	Clear	None
17:36	5	175	10.08	1.57	7.34	4.43	14.40	7.00	15.7	-83.1	Clear	None
17:41	5	175	10.08	1.8	7.43	4.54	12.60	6.73	16.5	-86.2	Clear	None
17:46	5	175	10.08	2.03	7.55	4.55	10.20	6.32	17.3	-93.5	Clear	None
17:51	5	175	10.08	2.26	7.6	4.69	11.30	6.01	17.9	-95.9	Clear	None
17:56	5	175	10.09	2.49	7.64	4.91	6.51	6.02	17.8	-99.4	Clear	None
18:01	5	175	10.09	2.72	7.65	5.07	21.50	5.86	18.2	-99.8	Clear	None
18:06	5	175	10.09	2.95	7.67	5.28	3.38	5.53	18.4	-103.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Parameters were not stable. Purged for an hour.

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:	Outside test track	Well Locked at Arrival:	n/a
Condition of Well:	Fair,water in vault and one bolt was loose	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-47			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	66 F partly cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.56	Total Depth (ft-bmp)	19.92	Water Column (ft.)	10.36	Gallons in Well	1.68
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.64				
Sample Time: Label	14:30	Volume Purged	10447.74 ml	Replicate/Code No.	MW-47-MS/MSD_061219	Sampled by	Emma Witherspoon
Purge Start	13:25						
Purge End	14:27						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:27	0	175	9.76	0	7.12	7.64	30.70	0.32	15.2	-32.9	Clear	None
13:30	3	175	9.76	0.14	7.08	7.72	19.60	0.20	15.1	-37.3	Clear	None
13:35	5	175	9.76	0.37	7.06	7.84	18.90	0.15	15.4	-46.8	Clear	None
13:40	5	175	9.76	0.6	7.04	7.93	15.50	0.12	15.2	-53.6	Clear	None
13:45	5	175	9.76	0.83	7.04	8.00	12.70	0.13	15.2	-57.1	Clear	None
13:50	5	175	9.76	1.06	7.03	8.07	12.90	0.14	15.0	-62.3	Clear	None
13:55	5	175	9.76	1.29	7.03	8.11	9.95	0.13	15.0	-66.2	Clear	None
14:00	5	175	9.76	1.52	7.03	8.16	8.44	0.11	15.2	-69.4	Clear	None
14:05	5	175	9.76	1.75	7.03	8.20	7.40	0.10	15.1	-72.6	Clear	None
14:10	5	175	9.76	1.98	7.03	8.23	6.44	0.09	15.0	-75.0	Clear	None
14:15	5	175	9.76	2.21	7.03	8.27	3.87	0.11	15.0	-77.7	Clear	None
14:20	5	175	9.76	2.44	7.03	8.28	3.51	0.09	15.1	-79.3	Clear	None
14:23	3	175	9.76	2.58	7.03	8.28	12.50	0.09	15.1	-80.3	Clear	None
14:27	4	175	9.76	2.76	7.03	8.30	2.86	0.09	15.1	-81.2	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	9	HCL
1,4-dioxane	40 mL Glass	9	HCL

Comments .

--

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:	East side of exterior track	Well Locked at Arrival:	n/a
Condition of Well:	Fair,Missing bolts,Vault broken	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-48			Date	6/13/2019
Project Name/Location		Ford LTP		Weather		60°F and cloudy	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	17-22	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.40	Total Depth (ft-bmp)	20.40	Water Column (ft.)	13.00	Gallons in Well	2.11
		Pump Intake (ft-bmp)	17.90	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.24				
Sample Time: Label	10:02	Volume Purged	9917.78 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	8:54						
Purge End	10:15						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:56	0	150	7.40	0	7.57	1.79	18.20	3.53	16.0	175.8	Clear	None
9:01	5	150	7.40	0.2	7.57	1.79	15.90	3.44	15.6	177.3	Clear	None
9:06	5	150	7.40	0.4	7.58	1.78	23.50	3.20	15.7	177.9	Clear	None
9:11	5	150	7.40	0.6	7.59	1.78	20.00	3.07	15.5	179.1	Clear	None
9:16	5	150	9.09	0.8	7.58	1.77	25.70	2.90	15.2	176.5	Clear	None
9:21	5	150	9.09	1	7.59	1.78	34.50	2.55	14.9	168.1	Clear	None
9:27	6	175	9.09	1.24	7.58	1.78	22.70	2.06	14.8	154.2	Clear	None
9:32	5	175	9.09	1.47	7.6	1.77	35.30	2.48	14.9	152.5	Clear	None
9:37	5	175	9.09	1.7	7.6	1.75	34.60	2.83	15.1	154.7	Clear	None
9:42	5	175	9.09	1.93	7.6	1.75	34.80	2.54	14.9	156.3	Clear	None
9:47	5	175	9.15	2.16	7.6	1.76	23.70	2.04	14.8	150.3	Clear	None
9:52	5	175	9.15	2.39	7.63	1.72	34.60	2.83	14.8	148.9	Clear	None
9:57	5	175	9.15	2.62	7.63	1.71	32.10	2.71	14.9	153.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Purged for 1 hour. Parameters not stable -- turbidity and DO. Bailed water out of well vault while purging.

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:	East of test track	Well Locked at Arrival:	n/a
Condition of Well:	Missing bolts,Poor,well vault full of water	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-49			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	62.06 degrees F and Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	12.5-17.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.20	Total Depth (ft-bmp)	17.27	Water Column (ft.)	11.07	Gallons in Well	1.80
		Pump Intake (ft-bmp)	15.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.73				
Sample Time: Label	11:11	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	10:07						
Purge End	11:15						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:08	0	200	6.20	0	6.99	5.72	252.00	0.53	15.5	26.5	with orange flecks	None
10:13	5	200	6.20	0.26	6.95	5.24	138.00	0.20	14.8	-43.8	Clear, cloudy	None
10:18	5	200	6.20	0.52	6.99	4.69	100.00	0.15	14.8	-68.8	Clear, cloudy	None
10:23	5	200	6.20	0.78	7.01	4.22	78.50	0.21	14.8	-82.0	Clear	None
10:28	5	200	6.20	1.04	7.03	3.87	56.70	0.14	14.9	-90.5	Clear	None
10:33	5	200	6.20	1.3	7.04	3.68	41.20	0.14	14.8	-96.4	Clear	None
10:38	5	200	6.20	1.56	7.05	3.45	37.00	0.13	14.8	-98.0	Clear	None
10:43	5	200	6.20	1.82	7.06	3.28	37.00	0.13	14.7	-101.9	Clear	None
10:48	5	200	6.20	2.08	7.07	3.16	27.50	0.14	14.7	-104.2	Clear	None
10:53	5	200	6.20	2.34	7.08	3.06	24.80	0.14	14.7	-106.9	Clear	None
10:58	5	200	6.20	2.6	7.09	2.91	28.10	0.14	14.7	-108.6	Clear	None
11:03	5	200	6.20	2.86	7.09	2.83	21.80	0.16	14.7	-110.0	Clear	None
11:08	5	200	6.20	3.12	7.09	2.98	23.60	0.12	14.8	-111.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	S parking lot by test track	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

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-50			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	75.02 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.92	Total Depth (ft-bmp)	18.81	Water Column (ft.)	11.89	Gallons in Well	1.93
		Pump Intake (ft-bmp)	16.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.24				
Sample Time: Label	15:52	Volume Purged	2.4 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	14:46						
Purge End	15:52						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:49	0	150	6.92	0	7.26	0.211	5.68	1.36	16.9	98.6	Clear	None
14:54	5	150	6.92	0.2	7.21	0.215	5.24	1.39	16.7	79.7	Clear	None
14:59	5	150	6.92	0.4	7.21	0.290	3.38	1.09	16.7	60.6	Clear	None
15:04	5	150	6.92	0.6	7.15	0.422	2.53	1.73	16.6	-17.2	Clear	None
15:09	5	150	6.92	0.8	7	1.05	1.94	2.15	16.2	-45.8	Clear	None
15:15	6	150	7.19	1.04	6.99	1.67	1.07	1.91	16.0	-51.4	Clear	None
15:18	3	150	7.19	1.16	6.99	1.93	1.16	1.80	15.9	-51.2	Clear	None
15:21	3	150	7.19	1.28	6.98	2.21	1.25	1.59	15.9	-48.7	Clear	None
15:32	11	150	7.19	1.72	6.99	2.57	1.23	1.54	16.8	-43.6	Clear	None
15:35	3	150	7.19	1.84	6.99	2.61	1.23	1.64	16.5	-41.9	Clear	None
15:38	3	150	7.19	1.96	6.98	2.70	1.95	0.71	16.6	-41.2	Clear	None
15:41	3	150	7.19	2.08	6.98	2.69	1.99	0.94	16.9	-40.4	Clear	None
15:45	4	150	7.19	2.24	6.98	2.76	2.80	1.19	16.6	-39.1	Clear	None
15:49	4	150	7.19	2.4	6.97	2.82	1.55	0.93	16.0	-37.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments .

--

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:	Just outside north end of track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-51			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	62.96 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.40	Total Depth (ft-bmp)	14.56	Water Column (ft.)	8.16	Gallons in Well	1.33
		Pump Intake (ft-bmp)	11.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.70				
Sample Time: Label	10:23	Volume Purged	2.26 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	9:20						
Purge End	10:23						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:22	0	125	6.40	0	7.45	2.02	0.98	0.26	12.6	146.3	Clear	None
9:28	6	125	6.45	0.2	7.45	1.94	0.76	0.20	12.5	135.4	Clear	None
9:33	5	125	6.40	0.37	7.47	1.90	0.90	0.23	12.6	125.8	Clear	None
9:38	5	125	6.40	0.54	7.47	1.84	1.08	0.25	12.5	116.9	Clear	None
9:44	6	150	6.40	0.74	7.49	1.79	1.00	0.27	13.4	104.6	Clear	None
9:48	4	150	6.40	0.9	7.51	1.76	0.96	0.34	12.6	95.4	Clear	None
9:51	3	150	6.40	1.02	7.51	1.73	1.07	0.32	12.6	89.1	Clear	None
9:54	3	150	6.40	1.14	7.51	1.71	1.10	0.39	12.7	82.6	Clear	None
9:58	4	150	6.40	1.3	7.52	1.67	1.13	0.38	12.6	70.5	Clear	None
10:03	5	150	6.40	1.5	7.52	1.63	0.96	0.33	12.7	57.4	Clear	None
10:08	5	150	6.40	1.7	7.63	1.60	1.13	0.36	12.6	45.0	Clear	None
10:13	5	150	6.40	1.9	7.53	1.58	0.99	0.34	12.8	32.8	Clear	None
10:17	4	150	6.40	2.06	7.53	1.55	1.10	0.32	12.6	24.7	Clear	None
10:22	5	150	6.40	2.26	7.53	1.52	1.13	0.30	12.5	14.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	North end of track by giant tank.	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-52			Date	6/15/2019
Project Name/Location	Ford LTP			Weather	66.02 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.44	Total Depth (ft-bmp)	19.73	Water Column (ft.)	13.29	Gallons in Well	2.16
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.57				
Sample Time: Label	15:32	Volume Purged	1.24 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	14:56						
Purge End	15:36						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:58	0	150	6.58	0	7.29	5.23	55.50	0.25	14.5	-123.9	Clear	NA
15:03	5	150	6.56	0.2	7.31	5.22	48.40	0.12	14.3	-134.3	Clear	NA
15:08	5	150	6.56	0.4	7.32	5.17	40.50	0.12	14.1	-140.0	Clear	NA
15:13	5	150	6.56	0.6	7.32	5.14	31.00	0.09	14.1	-147.6	Clear	NA
15:18	5	150	6.56	0.8	7.33	5.16	26.70	0.10	13.9	-151.0	Clear	NA
15:22	4	150	6.56	0.96	7.33	5.13	27.40	0.07	13.8	-154.2	Clear	NA
15:25	3	150	6.56	1.08	7.33	5.13	25.50	0.06	13.8	-155.7	Clear	NA
15:29	4	150	6.56	1.24	7.33	5.11	26.20	0.08	13.9	-157.6	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments

--

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:	E road	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-53			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	60s rain		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.05	Total Depth (ft-bmp)	20.62	Water Column (ft.)	14.57	Gallons in Well	2.37
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.06				
Sample Time: Label	12:15	Volume Purged	2.52 gallons	Replicate/Code No.	--	Sampled by	Jonathon Lust
Purge Start	11:15						
Purge End	12:15						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:15	0	160	6.05	0	7.07	5.95	17.30	8.30	12.8	130.3	Clear	None
11:20	5	160	6.33	0.21	7.15	6.01	11.60	0.73	13.1	111.2	Clear	None
11:25	5	160	6.62	0.42	7.2	6.03	7.87	0.52	13.0	97.4	Clear	None
11:30	5	160	6.69	0.63	7.23	6.04	7.24	0.19	12.9	85.1	Clear	None
11:35	5	160	6.70	0.84	7.26	6.05	5.96	0.14	12.9	72.3	Clear	None
11:40	5	160	6.67	1.05	7.27	6.06	4.47	0.15	12.9	63.7	Clear	None
11:45	5	160	6.67	1.26	7.28	6.05	4.12	0.14	12.8	57.0	Clear	None
11:50	5	160	6.67	1.47	7.28	6.04	4.55	0.15	13.1	48.2	Clear	None
11:55	5	160	6.67	1.68	7.28	6.04	2.78	0.16	13.0	40.1	Clear	None
12:00	5	160	6.67	1.89	7.29	6.01	3.08	0.15	13.0	26.8	Clear	None
12:05	5	160	6.67	2.1	7.29	6.04	3.30	0.14	12.9	19.7	Clear	None
12:10	5	160	6.67	2.31	7.29	6.04	3.13	0.16	12.8	10.6	Clear	None
12:15	5	160	6.67	2.52	7.29	6.03	3.09	0.14	12.8	1.6	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±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	6	HCL
--	--	--	--

Comments --

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:	MW-53	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-54			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	60s cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.20	Total Depth (ft-bmp)	20.85	Water Column (ft.)	14.65	Gallons in Well	2.38
		Pump Intake (ft-bmp)	18.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.11				
Sample Time: Label	13:50	Volume Purged	2.64 gallons	Replicate/Code No.	--	Sampled by	Jonathon Lust
Purge Start	12:55						
Purge End	13:50						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:55	0	180	6.20	0	7.87	0.332	96.90	2.20	12.4	-12.8	Clear	None
13:00	5	180	6.54	0.24	7.8	0.354	109.00	1.58	12.5	-9.9	Clear	None
13:05	5	180	6.90	0.48	7.55	0.670	112.00	1.28	12.8	7.5	Clear	None
13:10	5	180	6.90	0.72	6.97	6.52	39.70	0.33	12.4	34.7	Clear	None
13:16	6	180	6.80	1.01	7.21	7.10	40.30	0.19	12.7	3.4	Clear	None
13:20	4	180	6.80	1.2	7.25	7.16	23.50	0.19	13.4	-8.5	Clear	None
13:25	5	180	6.70	1.44	7.27	7.23	20.20	0.16	13.1	-19.4	Clear	None
13:30	5	180	6.70	1.68	7.28	7.27	16.60	0.13	13.1	-26.6	Clear	None
13:35	5	180	6.70	1.92	7.29	7.35	15.00	0.11	13.1	-33.5	Clear	None
13:40	5	180	6.70	2.16	7.29	7.40	14.50	0.11	13.4	-39.6	Clear	None
13:45	5	180	6.70	2.4	7.3	7.49	14.70	0.10	13.3	-47.1	Clear	None
13:50	5	180	6.70	2.64	7.3	7.54	15.60	0.10	13.1	-48.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±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	6	HCL
--	--	--	--

Comments --

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:	North end of outer drive	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-54S			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	60s rain		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.5-9.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.20	Total Depth (ft-bmp)	9.27	Water Column (ft.)	5.07	Gallons in Well	0.82
		Pump Intake (ft-bmp)	6.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.93				
Sample Time: Label	15:20	Volume Purged	2.4 gallons	Replicate/Code No.	--	Sampled by	Jonathon Lust
Purge Start	14:20						
Purge End	15:20						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:20	0	150	4.20	0	7.96	0.650	128.00	3.93	14.8	-46.6	Clear	None
14:25	5	150	4.35	0.2	7.83	0.513	78.40	5.23	14.5	-17.9	Clear	None
14:30	5	150	4.55	0.4	7.82	0.473	39.60	5.92	14.8	-7.4	Clear	None
14:35	5	150	4.90	0.6	7.85	0.470	29.90	6.27	14.9	-3.3	Clear	None
14:40	5	150	5.00	0.8	7.86	0.476	40.20	7.02	14.8	1.2	Clear	None
14:45	5	150	5.20	1	7.89	0.485	49.40	6.05	14.6	3.2	Clear	None
14:50	5	150	5.40	1.2	7.85	0.495	40.00	5.44	14.5	-7.2	Clear	None
14:55	5	150	5.60	1.4	7.78	0.492	40.00	4.49	14.4	-8.3	Clear	None
15:00	5	150	5.70	1.6	7.72	0.496	35.70	3.91	14.3	-8.4	Clear	None
15:05	5	150	5.75	1.8	7.21	0.496	38.80	3.22	14.2	4.3	Clear	None
15:10	5	150	5.78	2	7.73	0.500	37.90	3.00	14.1	1.0	Clear	None
15:15	5	150	5.80	2.2	7.72	0.509	33.30	2.67	14.0	-1.6	Clear	None
15:20	5	150	5.85	2.4	7.71	0.512	31.70	2.46	13.9	-6.2	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±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	6	HCL
--	--	--	--

Comments --

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:	North end of outer drive	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-55			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	62.06 degrees F and Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.45	Total Depth (ft-bmp)	19.55	Water Column (ft.)	12.10	Gallons in Well	1.97
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.96				
Sample Time: Label	10:35	Volume Purged	1.89 gallons	Replicate/Code No.	--	Sampled by	Jonathon Lust
Purge Start	9:50						
Purge End	10:35						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:50	0	160	7.45	0	7.25	9.17	73.10	0.58	13.7	14.6	Clear	None
9:55	5	160	7.45	0.21	7.36	9.16	46.70	0.18	13.7	136.7	Clear	None
10:00	5	160	7.45	0.42	7.36	9.70	30.80	0.12	13.7	-156.9	Clear	None
10:05	5	160	7.45	0.63	7.39	0.210	24.60	0.11	13.8	-163.7	Clear	None
10:10	5	160	7.45	0.84	7.41	10.52	15.90	0.08	13.7	-160.3	Clear	None
10:15	5	160	7.45	1.05	7.4	10.60	10.20	0.10	13.8	-163.0	Clear	None
10:20	5	160	7.45	1.26	7.39	10.61	8.26	0.09	13.8	-166.0	Clear	None
10:25	5	160	7.45	1.47	7.4	10.69	6.28	0.08	13.9	-169.7	Clear	None
10:30	5	160	7.45	1.68	7.41	10.71	5.90	0.08	13.9	-170.9	Clear	None
10:35	5	160	7.45	1.89	7.39	10.66	5.67	0.10	13.9	-173.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±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	6	HCL
--	--	--	--

Comments --

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:	North of VI trailer by MW55D	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-55D			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	55.04 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	19-24	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.20	Total Depth (ft-bmp)	24.90	Water Column (ft.)	16.70	Gallons in Well	2.71
		Pump Intake (ft-bmp)	22.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.70				
Sample Time: Label	9:30	Volume Purged	1.89 gallons	Replicate/Code No.	--	Sampled by	Jonathon Lust
Purge Start	8:45						
Purge End	9:30						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:45	0	160	8.20	0	6.89	7.13	38.40	0.52	13.4	16.1	Clear	None
8:50	5	160	8.10	0.21	6.99	7.11	81.80	0.21	13.4	-20.3	Clear	None
8:55	5	160	8.10	0.42	7.1	7.09	51.30	0.16	13.5	-77.0	Clear	None
9:00	5	160	8.10	0.63	7.16	7.15	37.90	0.14	13.3	-112.9	Clear	None
9:05	5	160	8.10	0.84	7.16	7.12	25.40	0.10	13.4	-130.2	Clear	None
9:10	5	160	8.10	1.05	7.16	7.13	17.60	0.11	13.4	-137.0	Clear	None
9:15	5	160	8.10	1.26	7.17	7.12	16.50	0.13	13.5	-143.9	Clear	None
9:20	5	160	8.10	1.47	7.17	7.16	8.22	0.14	13.7	-149.7	Clear	None
9:25	5	160	8.10	1.68	7.16	7.16	8.65	0.13	13.8	-142.6	Clear	None
9:30	5	160	8.10	1.89	7.16	7.14	7.89	0.12	13.8	-146.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±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	6	HCL
--	--	--	--

Comments --

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:	Outer drive north of VI trailer	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-56			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	66.02 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.90	Total Depth (ft-bmp)	20.39	Water Column (ft.)	13.49	Gallons in Well	2.19
		Pump Intake (ft-bmp)	18.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.86				
Sample Time: Label	12:33	Volume Purged	1.89 gallons	Replicate/Code No.	--	Sampled by	Jonathon Lust
Purge Start	11:48						
Purge End	12:33						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:48	0	160	6.90	0	6.96	27.61	40.00	0.79	13.5	-94.0	Clear	None
11:53	5	160	6.95	0.21	7.14	21.71	12.60	0.60	12.9	-128.9	Clear	None
11:58	5	160	7.00	0.42	7.15	21.80	9.73	0.52	13.2	-135.9	Clear	None
12:03	5	160	7.05	0.63	7.15	23.45	6.60	0.38	13.6	-152.5	Clear	None
12:08	5	160	7.10	0.84	7.14	24.26	5.25	0.29	13.9	-159.1	Clear	None
12:13	5	160	7.15	1.05	7.15	24.33	4.44	0.27	13.6	-161.3	Clear	None
12:18	5	160	7.15	1.26	7.15	24.13	3.34	0.20	13.6	-166.5	Clear	None
12:23	5	160	7.18	1.47	7.14	24.98	4.11	0.16	13.7	-170.8	Clear	None
12:28	5	160	7.20	1.68	7.17	24.75	2.85	0.16	13.6	-174.4	Clear	None
12:33	5	160	7.20	1.89	7.16	24.36	2.88	0.13	13.5	-176.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±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	6	HCL
--	--	--	--

Comments --

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:	North of test track past ramp	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-57			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	58 F Sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	17-22	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.04	Total Depth (ft-bmp)	21.66	Water Column (ft.)	15.62	Gallons in Well	2.54
		Pump Intake (ft-bmp)	19.50	Purge Method	Grab	Sample Method	Low-Flow
		Well Volumes Purged	1.09				
Sample Time: Label	10:00	Volume Purged	10447.74 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	8:52						
Purge End	10:00						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:52	0	175	6.85	0	10.73	7.44	171.00	5.93	13.6	183.0	Clear	None
8:58	6	175	7.15	0.28	9.18	8.83	111.00	5.27	13.5	170.3	Clear	None
9:02	4	175	7.23	0.46	8.82	9.41	67.40	5.92	13.5	164.3	Clear	Mome
9:06	4	175	7.31	0.64	8.21	9.91	28.10	4.90	13.5	142.6	Clear	None
9:10	4	170	7.34	0.82	7.96	10.01	30.30	5.16	13.4	126.8	Clear	None
9:14	4	170	7.29	1	7.69	10.06	14.90	4.77	13.4	115.4	Clear	None
9:18	4	175	7.31	1.18	7.47	10.03	12.00	0.71	13.4	-26.6	Clear	None
9:22	4	175	7.33	1.36	7.42	10.00	9.66	0.72	13.4	-77.4	Clear	None
9:26	4	175	7.33	1.54	7.37	9.98	6.86	0.66	13.4	-106.8	Clear	None
9:30	4	175	7.33	1.72	7.33	9.98	7.38	0.62	13.4	-113.1	Clear	None
9:34	4	175	7.37	1.9	7.32	9.98	7.78	0.58	13.4	-118.2	Clear	None
9:38	4	175	7.39	2.08	7.31	10.02	4.67	0.58	13.4	-118.8	Clear	None
9:42	4	175	7.40	2.26	7.28	10.05	4.85	0.53	13.5	-119.2	Clear	None
9:46	4	175	7.42	2.44	7.27	10.10	3.59	0.50	13.4	-119.5	Clear	None
9:50	4	175	7.40	2.62	7.25	10.11	4.64	0.48	13.4	-119.5	Clear	None
9:53	3	175	7.42	2.76	7.24	10.11	5.22	0.48	13.5	-120.2	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Northeast corner of site	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-58			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	71.96 degrees F and Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.20	Total Depth (ft-bmp)	19.66	Water Column (ft.)	15.46	Gallons in Well	2.51
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.66				
Sample Time: Label	15:07	Volume Purged	1.65 gallons	Replicate/Code No.	--	Sampled by	Jonathon Lust
Purge Start	14:28						
Purge End	15:07						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:28	0	160	4.20	0	6.94	26.70	87.90	1.02	15.3	-103.5	Slightly turbid	None
14:33	5	160	4.50	0.21	7.11	17.69	79.80	0.56	15.0	-132.0	Slightly turbid	None
14:38	5	160	4.40	0.42	7.12	15.40	66.80	0.51	16.3	-143.1	Slightly turbid	None
14:43	5	160	4.45	0.63	7.18	11.43	30.60	0.34	16.1	151.3	Clear	None
14:48	5	160	4.45	0.84	7.15	11.89	24.70	0.22	15.6	-153.2	Clear	None
14:53	5	160	4.45	1.05	7.11	13.59	40.30	0.17	15.7	-158.7	Clear	None
14:58	5	160	4.45	1.26	7.1	14.00	39.00	0.15	15.6	-160.3	Clear	None
15:01	3	160	4.45	1.39	7.1	14.49	41.40	0.16	15.3	-162.6	Clear	None
15:04	3	160	4.45	1.52	7.09	14.52	39.30	0.16	15.5	-164.2	Clear	None
15:07	3	160	4.45	1.65	7.09	14.55	40.00	0.15	15.4	-165.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±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	6	HCL
--	--	--	--

Comments --

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:	South edge of employee parking lot that is north of the track. Approx two spaces from foreign car parking.	Well Locked at Arrival:	n/a
Condition of Well:	Broken thread tabs,Missing bolts,Poor	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-62			Date	6/12/2019
Project Name/Location		Ford LTP		Weather		76°F sunny	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.92	Total Depth (ft-bmp)	21.13	Water Column (ft.)	13.21	Gallons in Well	2.15
		Pump Intake (ft-bmp)	18.60	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.28				
Sample Time: Label	16:23	Volume Purged	10447.74 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	15:13						
Purge End	16:28						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:17	0	175	7.92	0	6.61	6.07	91.20	0.47	17.0	-106.4	Brown	None
15:22	5	175	7.92	0.23	7.75	6.08	105.00	0.28	17.0	-170.5	Yellow	None
15:27	5	175	7.92	0.46	8.04	6.07	90.50	0.21	17.0	-185.8	Yellow	None
15:32	5	175	8.00	0.69	8.09	6.05	75.70	0.20	16.9	-186.6	Yellow	None
15:37	5	175	8.00	0.92	8.06	6.03	62.50	0.18	17.0	-184.0	Yellow	None
15:42	5	175	8.00	1.15	8.03	6.05	48.40	0.13	17.1	-180.4	Yellow	None
15:47	5	175	8.00	1.38	8	6.06	40.00	0.13	17.0	-178.2	Yellow	None
15:52	5	175	8.00	1.61	7.95	6.06	38.00	0.12	17.1	-174.6	Yellow	None
15:57	5	175	8.00	1.84	7.9	6.06	33.00	0.12	17.0	-171.1	Slightly yellow	None
16:02	5	175	8.00	2.07	7.86	6.06	27.60	0.11	17.0	-167.8	Slightly yellow	None
16:07	5	175	8.00	2.3	7.82	6.06	24.10	0.11	16.9	-164.6	Slightly yellow	None
16:12	5	175	8.00	2.53	7.78	6.06	20.50	0.11	16.7	-161.5	Slightly yellow	None
16:17	5	175	8.00	2.76	7.74	6.04	19.90	0.09	16.8	-158.7	Slightly yellow	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Purged for 1 hour. Turbidity was not stable

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:	East of test track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-63			Date	6/12/2019
Project Name/Location	Ford LTP			Weather	76°F and sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	7-12	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.83	Total Depth (ft-bmp)	11.79	Water Column (ft.)	3.96	Gallons in Well	0.64
		Pump Intake (ft-bmp)	9.29	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	4.36				
Sample Time: Label	18:22	Volume Purged	10561.3 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	17:16						
Purge End	18:25						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
17:16	0	175	7.83	0	8.8	0.001	12.30	7.11	33.6	486.6	Clear	None
17:21	5	175	7.84	0.23	7.59	3.68	7.14	0.94	17.2	163.1	Clear	None
17:26	5	175	7.84	0.46	7.57	3.91	13.90	0.92	18.3	164.5	Clear	None
17:31	5	175	7.84	0.69	7.42	5.00	10.50	0.65	15.8	165.9	Clear	None
17:36	5	175	7.84	0.92	7.43	5.03	18.60	0.77	17.9	158.2	Clear	None
17:41	5	200	7.84	1.15	7.39	5.12	10.90	0.60	15.9	128.3	Clear	None
17:46	5	175	7.84	1.41	7.41	5.14	3.82	0.68	17.7	102.6	Clear	None
17:51	5	175	7.84	1.64	7.4	5.15	4.21	0.79	19.1	85.6	Clear	None
17:56	5	175	7.84	1.87	7.44	5.18	6.28	0.81	20.0	68.4	Clear	None
18:01	5	175	7.84	2.1	7.46	5.19	9.85	0.82	20.7	48.0	Clear	None
18:06	5	175	7.84	2.33	7.37	5.22	12.50	0.53	16.1	24.8	Clear	None
18:11	5	175	7.84	2.56	7.38	5.18	11.20	0.58	17.9	6.9	Clear	None
18:16	5	175	7.84	2.79	7.38	5.18	9.92	0.58	19.3	0.7	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

--

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:	Near test track by tanks	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-64			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	51.98 degrees F and Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.50	Total Depth (ft-bmp)	20.20	Water Column (ft.)	11.70	Gallons in Well	1.90
		Pump Intake (ft-bmp)	17.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.96				
Sample Time: Label	9:14	Volume Purged	1.82 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	8:34						
Purge End	9:18						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:35	0	200	8.50	0	7.12	7.39	8.91	1.15	13.9	149.9	Clear	None
8:40	5	200	8.50	0.26	7.1	7.53	7.98	0.24	13.6	148.1	Clear	None
8:45	5	200	8.50	0.52	7.11	7.53	0.39	0.18	13.6	147.0	Clear	None
8:50	5	200	8.50	0.78	7.11	7.51	4.91	0.17	13.6	146.8	Clear	None
8:55	5	200	8.50	1.04	7.11	7.45	5.04	0.15	13.6	145.9	Clear	None
9:00	5	200	8.50	1.3	7.11	7.39	4.87	0.20	13.7	145.4	Clear	None
9:05	5	200	8.50	1.56	7.1	7.38	3.06	0.15	13.6	144.4	Clear	None
9:10	5	200	8.50	1.82	7.1	7.19	3.06	0.22	13.5	143.6	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	ATCNP	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-65			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	75.02 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	16-21	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.62	Total Depth (ft-bmp)	19.59	Water Column (ft.)	10.97	Gallons in Well	1.78
		Pump Intake (ft-bmp)	16.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.85				
Sample Time: Label	13:30	Volume Purged	1.52 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	12:47						
Purge End	13:30						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:49	0	150	8.65	0	7.27	3.99	172.00	0.95	14.7	-111.4	Slight orange tint	Slight metallic odor
12:54	5	150	8.65	0.2	7.26	4.03	93.70	0.23	14.1	-108.6	Slight orange tint	Slight metallic odor
12:59	5	150	8.65	0.4	7.24	4.13	66.80	0.89	13.9	-107.1	Slight orange tint	Slight metallic odor
13:03	4	150	8.65	0.56	7.23	4.22	51.40	1.00	13.7	-106.7	Slight orange tint	Slight metallic odor
13:08	5	150	8.65	0.76	7.21	4.24	33.10	0.92	13.6	-104.5	Slight orange tint	Slight metallic odor
13:12	4	150	8.65	0.92	7.2	4.24	25.10	0.92	13.4	-103.6	Slight orange tint	Slight metallic odor
13:18	6	150	8.65	1.16	7.2	4.20	31.50	0.80	13.8	-103.3	Slight orange tint	Slight metallic odor
13:21	3	150	8.65	1.28	7.21	4.16	24.00	0.74	13.5	-104.8	Slight orange tint	Slight metallic odor
13:24	3	150	8.65	1.4	7.21	4.16	25.80	0.76	13.5	-104.5	Slight orange tint	Slight metallic odor
13:27	3	150	8.65	1.52	7.21	4.15	24.40	0.71	13.6	-105.1	Slight orange tint	Slight metallic odor
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	North end of track	Well Locked at Arrival:	n/a
Condition of Well:	Missing bolts	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-66			Date	6/10/2019
Project Name/Location	Ford LTP			Weather	68.00 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.69	Total Depth (ft-bmp)	19.11	Water Column (ft.)	12.42	Gallons in Well	2.02
		Pump Intake (ft-bmp)	16.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.71				
Sample Time: Label	14:50	Volume Purged	5450.99 ml	Replicate/Code No.	MW-66-MS_061019 / MW-66-MSD_061019	Sampled by	Julia McClafferty
Purge Start	14:08						
Purge End	15:00						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:06	0	150	6.82	0	7.32	4.79	4.89	4.50	13.9	101.0	Clear	None
14:14	8	150	6.81	0.32	7.34	4.85	5.66	2.90	13.7	87.6	Clear	None
14:18	4	150	6.82	0.48	7.35	4.88	3.66	2.60	13.6	79.5	Clear	None
14:22	4	150	6.81	0.64	7.35	4.91	3.97	0.28	13.4	74.4	Clear	None
14:25	3	150	6.81	0.76	7.36	4.94	1.72	0.26	13.3	66.7	Clear	None
14:29	4	150	6.81	0.92	7.36	4.97	1.70	0.19	13.3	61.8	Clear	None
14:31	2	150	6.81	1	7.36	4.99	2.02	0.21	13.3	57.7	Clear	None
14:34	3	150	6.81	1.12	7.36	5.01	2.53	0.22	13.3	54.2	Clear	None
14:37	3	100	6.80	1.24	7.36	5.02	0.40	0.23	13.6	49.8	Clear	None
14:40	3	150	6.79	1.32	7.36	5.07	1.51	0.23	13.5	45.5	Clear	None
14:43	3	100	6.80	1.44	7.36	5.05	1.82	0.28	13.5	41.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	9	HCL
VOCs	40 mL Glass	9	HCL

Comments

--

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:	Inside test track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-67			Date	6/13/2019
Project Name/Location	Ford LTP			Weather	59°F, cloudy, chance of rain		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	9-14	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	9.57	Total Depth (ft-bmp)	14.12	Water Column (ft.)	4.55	Gallons in Well	0.74
		Pump Intake (ft-bmp)	11.60	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.76				
Sample Time: Label	12:11	Volume Purged	4921.04 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	11:30						
Purge End	12:16						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:35	0	150	9.57	0	5.57	3.94	0.94	0.40	14.4	337.3	Clear	None
11:40	5	150	9.57	0.2	6.97	3.94	0.02	0.31	14.3	259.2	Clear	None
11:45	5	150	9.57	0.4	7.07	5.04	0.02	0.20	14.3	256.3	Clear	None
11:50	5	150	9.65	0.6	7.61	6.11	0.02	0.16	14.3	227.6	Clear	None
11:56	6	175	9.65	0.84	7.07	6.34	0.02	0.14	14.4	254.9	Clear	None
12:01	5	175	9.65	1.07	7.07	6.38	0.05	0.14	14.4	253.6	Clear	None
12:06	5	175	9.65	1.3	7.08	6.50	0.02	0.13	14.3	251.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

--

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:	East of test track by gate	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-68			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	76°F and partly cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.70	Total Depth (ft-bmp)	15.29	Water Column (ft.)	6.59	Gallons in Well	1.07
		Pump Intake (ft-bmp)	12.79	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.53				
Sample Time: Label	12:42	Volume Purged	10258.47 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	11:33						
Purge End	12:50						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:36	0	150	8.70	0	7.72	0.146	2.16	1.67	15.2	119.6	Yellow	None
11:40	4	150	8.78	0.16	7.39	0.144	2.30	1.43	14.8	117.7	Yellow	None
11:45	5	175	8.78	0.36	7.33	0.146	0.02	1.32	14.7	113.3	Yellow	None
11:50	5	175	8.78	0.59	6.9	14.05	1.27	0.29	14.6	175.7	Yellow	None
11:55	5	175	8.78	0.82	6.96	14.52	5.82	0.23	14.6	167.4	Clear	None
12:00	5	175	8.78	1.05	7.65	14.61	2.05	0.21	14.6	123.7	Clear	None
12:05	5	175	8.78	1.28	8.15	14.62	2.08	0.19	14.6	91.3	Clear	None
12:10	5	175	8.79	1.51	7.95	14.61	1.84	0.14	14.6	93.3	Clear	None
12:15	5	175	8.79	1.74	7.6	14.61	4.14	0.13	14.6	114.3	Clear	None
12:20	5	175	8.79	1.97	7.85	14.61	2.76	0.13	14.7	96.8	Clear	None
12:26	6	175	8.79	2.25	7.1	14.63	2.40	0.13	14.8	133.8	Clear	None
12:31	5	175	8.79	2.48	7.63	14.61	1.53	0.12	14.7	101.9	Clear	None
12:36	5	175	8.79	2.71	7.46	14.60	3.33	0.10	14.9	108.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

pH and ORP failed. Purged for 1 hour

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:	West of building and east of test track	Well Locked at Arrival:	n/a
Condition of Well:	Good,bolt neds to be replaced	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-69			Date	6/12/2019
Project Name/Location		Ford LTP		Weather		61°F and sunny	
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.12	Total Depth (ft-bmp)	19.98	Water Column (ft.)	11.86	Gallons in Well	1.93
		Pump Intake (ft-bmp)	17.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.40				
Sample Time: Label	10:03	Volume Purged	10220.61 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	8:49						
Purge End	10:12						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:55	0	150	8.12	0	6.78	13.64	58.40	1.21	13.4	-101.7	Yellow	None
9:00	5	150	8.12	0.2	7.1	13.90	61.00	1.05	13.5	-119.5	Yellow	None
9:05	5	175	8.12	0.4	7.06	13.82	57.10	0.99	13.4	-116.5	Yellow	None
9:10	5	175	8.39	0.63	7.13	13.61	44.50	0.80	13.4	-120.2	Yellow	None
9:15	5	175	8.39	0.86	7.14	13.24	41.20	0.78	13.5	-119.5	Yellow	None
9:20	5	175	8.39	1.09	7.14	13.11	40.00	0.78	13.5	-118.9	Yellow	None
9:25	5	175	8.39	1.32	7.15	12.88	39.40	0.95	13.5	-118.9	Yellow	None
9:30	5	175	8.39	1.55	7.13	12.61	28.90	0.91	13.5	-116.6	Yellow	None
9:35	5	175	8.36	1.78	7.14	12.45	26.30	0.88	13.6	-116.0	Yellow	None
9:40	5	175	8.36	2.01	7.12	12.35	23.50	0.79	13.5	-114.4	Yellow	None
9:45	5	175	8.37	2.24	7.15	12.28	19.70	0.76	13.5	-115.7	Yellow	None
9:50	5	175	8.37	2.47	7.16	12.28	17.50	0.69	13.6	-116.0	Yellow	None
9:55	5	175	8.37	2.7	7.24	12.27	16.90	0.63	13.5	-120.6	Yellow	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Purged for 1 hour. Parameters not stable.

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:	In parking lot, east of ATNPC building	Well Locked at Arrival:	n/a
Condition of Well:	Missing bolts,Poor	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-70			Date	6/11/2019
Project Name/Location	Ford LTP			Weather	69°F sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.00	Total Depth (ft-bmp)	20.00	Water Column (ft.)	12.00	Gallons in Well	1.95
		Pump Intake (ft-bmp)	17.10	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.56				
Sample Time: Label	16:06	Volume Purged	11545.51 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	14:55						
Purge End	16:10						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:58	0	175	8.00	0	8.4	0.001	16.10	6.54	34.4	238.5	Clear	None
15:03	5	175	9.00	0.23	7.16	4.04	8.68	7.97	18.0	-129.9	Clear	None
15:08	5	175	9.00	0.46	7.17	4.10	18.90	8.12	18.9	-131.0	Clear	None
15:15	7	200	9.00	0.78	7.33	4.18	23.40	7.03	20.8	-126.2	Clear	None
15:20	5	200	9.00	1.04	7.27	4.50	31.20	7.25	16.8	-111.5	Clear	None
15:26	6	200	9.00	1.36	7.73	4.51	29.80	6.10	18.6	-125.5	Clear	None
15:31	5	175	9.00	1.62	7.39	4.59	18.30	6.03	17.4	-105.5	Clear	None
15:36	5	175	9.00	1.85	7.56	4.57	16.40	5.39	19.0	-112.7	Clear	None
15:42	6	175	9.00	2.13	7.08	4.88	11.00	0.78	18.4	-102.1	Clear	None
15:47	5	175	9.00	2.36	7.12	4.72	10.50	0.29	19.1	-98.7	Clear	None
15:52	5	175	9.00	2.59	7.24	4.67	9.10	0.24	17.0	-96.6	Clear	None
15:57	5	175	9.00	2.82	7.06	4.66	6.69	0.35	18.9	-80.9	Clear	None
16:02	5	175	9.00	3.05	7.19	4.66	3.23	0.37	20.0	-87.0	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Parameters were not stable.

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:	Outside test track	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

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-71			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	59 degrees Fahrenheit and sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	15-20	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	10.79	Total Depth (ft-bmp)	20.00	Water Column (ft.)	9.21	Gallons in Well	1.50
		Pump Intake (ft-bmp)	17.20	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.95				
Sample Time: Label	10:19	Volume Purged	11091.26 ml	Replicate/Code No.	--	Sampled by	Mary-Catherine Goddard
Purge Start	9:05						
Purge End	10:22						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:05	0	130	10.79	0	6.83	18.24	183.00	0.54	15.7	-65.3	Light brown	None
9:14	9	130	11.02	0.31	6.86	18.26	210.00	0.23	15.3	-71.9	Light brown	None
9:19	5	175	11.02	0.48	6.87	18.23	222.00	0.21	15.3	-75.2	Light brown	None
9:24	5	175	11.02	0.71	6.87	18.24	190.00	0.53	15.3	-77.0	Light brown	None
9:30	6	175	11.09	0.99	6.86	18.25	171.00	0.20	15.1	-78.5	Light brown	None
9:35	5	175	11.09	1.22	6.85	18.22	146.00	0.17	15.2	-79.5	Light brown	None
9:44	9	175	11.12	1.64	6.88	18.20	122.00	0.15	15.2	-81.8	Light brown	None
9:49	5	175	11.12	1.87	6.85	18.19	95.00	0.15	15.2	-82.4	Light brown	None
9:56	7	175	11.11	2.19	6.88	18.18	84.50	0.14	15.2	-83.8	Light brown	None
10:01	5	175	11.11	2.42	6.88	18.16	77.90	0.13	15.3	-84.5	Light brown	None
10:06	5	175	11.11	2.65	6.88	18.16	66.10	0.13	15.2	-85.4	Light brown	None
10:12	6	175	11.11	2.93	6.89	18.12	57.80	0.11	15.2	-87.8	Light brown	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Purged well for 1 hour. Turbidity was not stabilized.

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:	Next to building in parking spot	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-113			Date	6/12/2019
Project Name/Location		Ford LTP		Weather	75.02 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-10	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.19	Total Depth (ft-bmp)	9.53	Water Column (ft.)	5.34	Gallons in Well	0.87
		Pump Intake (ft-bmp)	7.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.99				
Sample Time: Label	12:42	Volume Purged	2.6 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	11:50						
Purge End	12:45						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:50	0	200	9.28	0	7.82	5.27	11.00	0.93	15.7	-39.5	Clear	None
11:55	5	200	9.28	0.26	7.56	5.18	9.33	0.19	14.8	-37.7	Clear	None
12:00	5	200	9.28	0.52	7.53	4.78	1.84	0.12	14.6	-39.3	Clear	None
12:05	5	200	9.28	0.78	7.51	4.53	9.08	0.11	14.7	-40.5	Clear	None
12:10	5	200	9.28	1.04	7.51	4.35	9.32	0.09	14.6	-41.5	Clear	None
12:15	5	200	9.28	1.3	7.51	4.23	9.74	0.08	14.6	-42.0	Clear	None
12:20	5	200	9.28	1.56	7.51	4.16	8.53	0.10	14.5	-42.5	Clear	None
12:25	5	200	9.28	1.82	7.51	4.10	9.86	0.10	14.5	-42.8	Clear	None
12:30	5	200	9.28	2.08	7.5	4.08	8.98	0.09	14.4	-42.9	None	Clear
12:35	5	200	9.28	2.34	7.5	4.06	8.75	0.09	14.5	-43.1	Clear	None
12:40	5	200	9.28	2.6	7.5	4.05	8.65	0.07	14.5	-43.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Inside gate	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-114			Date	6/13/2019
Project Name/Location		Ford LTP		Weather	57 F cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-10	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.75	Total Depth (ft-bmp)	9.43	Water Column (ft.)	3.68	Gallons in Well	0.60
		Pump Intake (ft-bmp)	7.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.30				
Sample Time: Label	15:30	Volume Purged	5223.87 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	14:50						
Purge End	15:20						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:50	0	175	5.55	0	7.1	1.93	3.01	1.90	13.9	-55.6	Clear	None
14:55	5	175	5.56	0.23	6.94	1.91	2.37	1.06	13.6	-46.0	Clear	None
15:00	5	175	5.56	0.46	6.95	1.87	0.94	0.98	13.6	-35.8	Clear	None
15:05	5	175	5.56	0.69	6.96	1.89	0.44	0.93	13.6	-43.7	Clear	None
15:10	5	175	5.58	0.92	6.98	1.92	0.42	0.21	13.6	-43.8	Clear	None
15:15	5	175	5.58	1.15	6.97	1.89	0.68	0.17	13.5	-47.9	Clear	None
15:20	5	175	5.58	1.38	6.97	1.91	1.09	0.18	13.4	-50.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

--

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:	Inside gate	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-120			Date	6/15/2019
Project Name/Location		Ford LTP		Weather	66 F cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	7-12	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.55	Total Depth (ft-bmp)	11.75	Water Column (ft.)	6.20	Gallons in Well	1.01
		Pump Intake (ft-bmp)	9.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.48				
Sample Time: Label	15:30	Volume Purged	13286.8 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	14:20						
Purge End	15:16						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:20	0	225	5.59	0	7.46	0.850	12.80	17.57	13.7	-75.9	Clear	None
14:25	5	225	5.60	0.3	7.38	0.900	67.00	16.59	13.6	-61.5	Clear	None
14:30	5	225	5.60	0.6	7.35	0.890	24.40	15.78	13.5	-50.8	Clear	None
14:35	5	250	5.60	0.9	7.31	0.880	11.80	15.02	13.4	-41.9	Clear	None
14:40	5	250	5.60	1.23	7.28	0.870	4.39	14.57	13.4	-33.7	Clear	None
14:45	5	250	5.60	1.56	7.28	0.850	2.76	14.48	13.3	-27.0	Clear	None
14:50	5	250	5.60	1.89	7.26	0.830	2.23	14.40	13.3	-28.2	Clear	None
14:55	5	250	5.60	2.22	7.27	0.800	1.94	2.97	13.3	-28.9	Clear	None
15:00	5	250	5.60	2.55	7.27	0.820	1.90	1.47	13.3	-44.2	Clear	None
15:05	5	250	5.60	2.85	7.28	0.800	1.68	1.21	13.2	-36.2	Clear	None
15:10	5	250	5.60	3.18	7.27	0.810	1.99	1.26	13.3	-30.4	Clear	None
15:15	5	250	5.60	3.51	7.27	0.800	1.22	1.17	13.3	-27.7	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments .

--

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:	North road	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	MW-124			Date	6/13/2019
Project Name/Location		Ford LTP		Weather	57 F cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-10	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	0.95	Total Depth (ft-bmp)	9.60	Water Column (ft.)	8.65	Gallons in Well	1.41
		Pump Intake (ft-bmp)	7.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.04				
Sample Time: Label	13:15	Volume Purged	5564.56 ml	Replicate/Code No.	--	Sampled by	Emma Witherspoon
Purge Start	12:40						
Purge End	13:15						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:40	0	175	1.00	0	7.16	1.08	5.54	1.16	14.3	-92.4	Clear	None
12:45	5	175	1.00	0.23	6.83	1.06	5.03	0.50	14.1	-86.0	Clear	None
12:50	5	175	1.00	0.46	6.84	1.06	5.90	0.19	14.2	-85.9	Clear	None
12:55	5	200	1.00	0.69	6.85	1.04	1.78	0.12	14.2	-84.1	Clear	None
13:00	5	200	1.00	0.95	6.85	1.04	1.47	0.10	14.2	-83.4	Clear	None
13:05	5	200	1.00	1.21	6.85	1.04	1.96	0.09	14.2	-83.2	Clear	None
13:10	5	200	1.00	1.47	6.85	1.04	1.01	0.08	14.2	-83.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Inside gate	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	PW-16-01			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	67 F cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	9.7-19.7	Casing Diameter (in.)	5	Well Material	PVC
Static Water Level (ft-bmp)	7.44	Total Depth (ft-bmp)	21.60	Water Column (ft.)	14.16	Gallons in Well	14.38
		Pump Intake (ft-bmp)	19.50	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.20				
Sample Time: Label	17:30	Volume Purged	10939.84 ml	Replicate/Code No.	--	Sampled by	Rachel Bielak
Purge Start	16:30						
Purge End	17:30						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:33	0	200	7.58	0	7.07	5.68	12.30	1.30	13.5	-40.5	Clear	None
16:38	5	200	7.55	0.26	7.1	5.68	11.90	1.07	13.7	-51.6	Clear	None
16:43	5	200	7.55	0.52	7.11	5.70	5.81	1.09	13.7	-54.9	Clear	None
16:47	4	200	7.55	0.73	7.13	5.69	4.19	0.88	13.6	-59.0	Clear	None
16:53	6	200	7.56	1.05	7.13	5.68	6.11	0.82	13.5	-60.9	Clear	None
16:57	4	200	7.57	1.26	7.14	5.69	3.58	0.64	13.5	-62.2	Clear	None
17:01	4	200	7.59	1.47	7.15	5.69	3.95	0.59	13.6	-63.5	Clear	None
17:05	4	200	7.60	1.68	7.15	5.70	2.76	0.46	13.5	-65.0	Clear	None
17:09	4	200	7.57	1.89	7.15	5.69	3.84	0.41	13.5	-66.4	Clear	None
17:13	4	200	7.57	2.1	7.16	5.70	5.53	0.48	13.5	-77.7	Clear	None
17:16	3	200	7.60	2.26	7.16	5.69	1.58	0.56	13.5	-79.7	Clear	None
17:20	4	200	7.60	2.47	7.16	5.70	2.00	0.36	13.4	-83.1	Clear	None
17:24	4	200	7.60	2.68	7.16	5.69	2.57	0.38	13.4	-85.5	Clear	None
17:28	4	200	7.60	2.89	7.17	5.69	4.33	0.42	13.5	-87.8	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Inside track,south east side	Well Locked at Arrival:	n/a
Condition of Well:	Good,bolt crooked	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	PW-16-02			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	71.96 degrees F and Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	12-17	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.12	Total Depth (ft-bmp)	23.69	Water Column (ft.)	18.57	Gallons in Well	3.02
		Pump Intake (ft-bmp)	22.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.74				
Sample Time: Label	15:20	Volume Purged	2.22 gallons	Replicate/Code No.	DUP-03	Sampled by	Patrick Labadie
Purge Start	14:20						
Purge End	15:15						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:25	0	200	7.60	0	6.73	1.03	9.53	0.28	12.6	-76.5	Clear	None
14:30	5	200	7.60	0.26	6.73	1.03	21.50	0.23	12.4	-74.5	Clear	None
14:35	5	175	7.60	0.52	6.74	6.74	7.10	0.24	12.8	-72.4	Clear	None
14:40	5	175	5.26	0.75	6.74	1.02	6.11	0.24	12.4	-71.3	Clear	None
14:45	5	175	5.26	0.98	6.75	1.03	5.09	0.18	12.1	-71.0	Clear	None
14:50	5	175	5.26	1.21	6.76	1.03	3.48	0.17	12.7	-68.5	Clear	None
14:55	5	175	5.26	1.44	6.77	1.03	3.44	0.18	12.8	-68.0	Clear	None
14:59	4	175	5.26	1.62	6.76	1.03	6.54	0.17	12.0	-69.1	Clear	None
15:02	3	175	5.26	1.76	6.76	1.02	3.22	0.16	11.9	-68.3	Clear	None
15:06	4	175	5.26	1.94	6.76	1.03	3.20	0.14	12.3	-67.1	Clear	None
15:09	3	175	5.26	2.08	6.76	1.03	3.28	0.16	12.4	-67.3	Clear	None
15:12	3	175	5.26	2.22	6.77	1.03	3.49	0.16	12.2	-67.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	6	HCL
1,4-dioxane	40 mL Glass	6	HCL

Comments --

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:	North end of track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	TW-16-01			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	64.94 degrees F and Haze		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	12-17	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.67	Total Depth (ft-bmp)	16.62	Water Column (ft.)	9.95	Gallons in Well	1.62
		Pump Intake (ft-bmp)	14.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.63				
Sample Time: Label	17:15	Volume Purged	2.64 gallons	Replicate/Code No.	--	Sampled by	Rachel Bielak
Purge Start	16:14						
Purge End	17:13						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:14	0	175	6.72	0	6.9	2.98	7.28	13.70	12.8	-33.6	Slight orange tint	Slight metallic odor
16:34	20	175	6.72	0.92	6.92	2.96	6.27	15.00	12.7	-40.4	Slight orange tint	Slight metallic odor
16:40	6	175	6.72	1.2	6.93	2.97	4.59	14.40	12.9	-41.6	Slight orange tint	Slight metallic odor
16:49	9	175	6.72	1.62	6.96	3.07	5.03	13.60	12.9	-49.5	Clear	Slight metallic odor
16:56	7	175	6.72	1.94	6.98	3.14	4.14	13.40	12.7	-53.2	Clear	Slight metallic odor
17:05	9	175	6.73	2.36	6.99	3.17	3.33	13.90	12.8	-50.8	Clear	Slight metallic odor
17:11	6	175	6.73	2.64	7	3.19	3.31	13.20	12.9	-52.9	Clear	Slight metallic odor
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

J plug was under water

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:	South end of test track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	TW-16-02			Date	6/10/2019
Project Name/Location		Ford LTP		Weather	65 degrees Fahrenheit, cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	12-17	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.49	Total Depth (ft-bmp)	17.13	Water Column (ft.)	10.64	Gallons in Well	1.73
		Pump Intake (ft-bmp)	14.67	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.67				
Sample Time: Label	17:41	Volume Purged	10939.84 ml	Replicate/Code No.	--	Sampled by	Rachel Bielak
Purge Start	16:34						
Purge End	17:49						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:36	0	175	6.49	0	7.29	4.37	274.00	1.52	13.7	-94.3	Brown	None
16:44	8	175	6.49	0.37	7.41	4.41	206.00	1.26	13.5	-110.6	Brown	None
16:49	5	175	6.49	0.6	7.4	4.55	73.90	0.77	13.5	-112.4	Brown	None
16:54	5	175	6.49	0.83	7.38	4.74	66.00	0.55	13.3	-112.7	Light brown	None
16:59	5	175	6.49	1.06	7.41	4.78	45.40	0.40	13.1	-113.4	Slightly yellow	None
17:06	7	175	6.49	1.38	7.38	5.04	22.70	0.26	13.1	-112.2	Clear	None
17:11	5	175	6.49	1.61	7.4	5.09	18.00	0.22	13.1	-112.6	Clear	None
17:17	6	175	6.49	1.89	7.38	5.12	17.50	0.19	13.1	-113.5	Clear	None
17:23	6	175	6.49	2.17	7.38	5.14	15.50	0.17	13.1	-113.2	Clear	None
17:32	9	160	6.59	2.59	7.38	5.05	19.80	0.16	13.6	-114.5	Clear	None
17:39	7	160	6.59	2.89	7.4	5.09	38.70	0.16	13.7	-114.6	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Well vault keeps filling up with water during purging. Continuous bailing.

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:	TW-16-02	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	TW-16-03			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	66.02 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	9-19	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.50	Total Depth (ft-bmp)	18.89	Water Column (ft.)	14.39	Gallons in Well	2.34
		Pump Intake (ft-bmp)	16.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.13				
Sample Time: Label	12:39	Volume Purged	2.65 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	11:26						
Purge End	12:33						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:28	0	175	7.60	0	6.61	2.12	9.82	0.89	12.9	-72.3	Clear	None
11:34	6	175	7.60	0.28	6.6	2.12	4.80	0.99	12.6	-67.4	Clear	None
11:38	4	175	7.60	0.46	6.59	2.12	4.71	0.88	12.7	-65.1	Clear	None
11:41	3	175	7.60	0.6	6.6	2.12	4.17	0.91	12.8	-63.8	Clear	None
11:44	3	175	7.60	0.74	5.59	2.10	6.64	0.99	12.8	-63.1	Clear	None
11:49	5	175	7.60	0.97	6.6	2.11	3.75	0.76	12.6	-62.2	Clear	None
11:54	5	175	7.60	1.2	6.6	2.11	4.46	0.97	13.4	-61.2	Clear	None
11:59	5	175	7.60	1.43	6.59	2.08	4.45	0.59	13.4	-59.3	Clear	None
12:04	5	150	7.60	1.66	6.6	2.08	3.26	0.67	13.6	-58.3	Clear	None
12:09	5	175	7.60	1.86	6.6	2.06	2.38	0.65	12.7	-56.8	Clear	None
12:12	3	175	7.60	2	6.6	2.06	1.79	0.67	13.3	-56.9	Clear	None
12:15	3	175	7.60	2.14	6.6	2.06	2.17	0.59	13.4	-56.7	Clear	None
12:18	3	175	7.60	2.28	6.6	2.06	2.03	0.74	13.3	-56.0	Clear	None
12:23	5	175	7.60	2.51	6.6	2.05	2.24	0.53	13.1	-55.5	Clear	None
12:26	3	175	7.60	2.65	6.6	2.05	2.54	0.59	13.6	-55.7	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Ants living in vault

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:	North end of track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00001	Well ID	TW-16-04			Date	6/11/2019
Project Name/Location		Ford LTP		Weather	73.94 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	10-19	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.95	Total Depth (ft-bmp)	18.92	Water Column (ft.)	13.97	Gallons in Well	2.27
		Pump Intake (ft-bmp)	16.00	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.59				
Sample Time: Label	17:05	Volume Purged	1.34 gallons	Replicate/Code No.	--	Sampled by	Patrick Labadie
Purge Start	16:22						
Purge End	17:03						

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)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:29	0	150	5.26	0	6.79	1.48	4.49	0.21	13.2	-87.2	Clear	None
16:34	5	150	5.26	0.2	6.8	1.48	2.79	0.22	12.8	-86.5	Clear	None
16:42	8	150	5.26	0.52	6.81	1.48	6.01	0.19	12.7	-86.1	Clear	None
16:45	3	150	5.26	0.64	6.81	1.48	2.63	0.16	12.6	-86.2	Clear	None
16:50	5	150	5.26	0.84	6.81	1.48	1.86	0.17	12.4	-86.3	Clear	None
16:53	3	170	5.26	0.96	6.81	1.48	1.92	0.15	12.1	-86.0	Clear	None
16:57	4	150	5.26	1.14	6.81	1.47	1.27	0.15	12.5	-87.1	Clear	None
16:59	2	150	5.26	1.22	6.82	1.48	1.00	0.18	12.4	-87.0	Clear	None
17:02	3	150	5.26	1.34	6.82	1.48	1.01	0.16	12.5	-87.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments

Ants living in 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

Well Location:	North end of track	Well Locked at Arrival:	n/a
Condition of Well:	Good	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

APPENDIX C

Off-Site Groundwater Field Sampling Logs

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-72			Date	5/17/2019
Project Name/Location		Ford LTP		Weather	62.96 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)	6.42	Total Depth (ft-bmp)	19.66	Water Column (ft.)	13.24	Gallons in Well	2.15
		Pump Intake (ft-bmp)	17.5	Purge Method	Low-Flow	Sample Method	Grab
		Well Volumes Purged	0.944				
Sample Time: Label	12:50	Volume Purged	2.03 gallons	Replicate/Code No.	DUP-05_051719	Sampled by	Christina Weaver
Purge Start	12:05						
Purge End	12:45						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:10	0	220	6.45	0	7.46	6.5	0.02	0.34	12.8	-42.5	Clear	None
12:15	5	220	6.48	0.29	7.46	6.4	0.02	0.3	12.7	-57.4	Clear	None
12:20	5	220	6.48	0.58	7.45	6.3	0.02	0.27	12.7	-80.3	Clear	None
12:25	5	220	6.48	0.87	7.45	6.28	0.02	0.25	12.6	-89.5	Clear	None
12:30	5	220	6.48	1.16	7.45	6.25	0.02	0.25	12.6	-101.8	Clear	None
12:35	5	220	6.48	1.45	7.45	6.21	0.02	0.23	12.4	-108.4	Clear	None
12:40	5	220	6.48	1.74	7.44	6.2	0.02	0.19	12.5	-113.5	Clear	None
12:45	5	220	6.48	2.03	7.44	6.18	0.02	0.18	12.5	-117	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	ROW Rosati	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-72S			Date	5/8/2019
Project Name/Location		Ford LTP		Weather	50.00 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.4	Total Depth (ft-bmp)	13.2	Water Column (ft.)	6.8	Gallons in Well	1.1
		Pump Intake (ft-bmp)	7.9	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.455				
Sample Time: Label	11:54	Volume Purged	1.6 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	10:50						
Purge End	12:01						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:00	0	120	6.46	0	7.03	4.71	61.2	5.67	12	529.7	Clear	None
11:05	5	120	6.46	0.16	7.03	4.77	66.1	5.06	11.9	519	Clear	None
11:10	5	120	6.46	0.32	7.03	4.77	41.9	4.76	11.8	507	Clear	None
11:15	5	120	6.45	0.48	7.1	4.79	27.2	4.46	11.8	493.1	Clear	None
11:20	5	120	6.46	0.64	7.1	4.8	21.4	4.24	11.8	480.5	Clear	None
11:25	5	120	6.46	0.8	7.1	4.8	16.5	4.09	11.8	472.3	Clear	None
11:28	3	120	6.46	0.9	7.1	4.82	10.9	3.93	11.8	460.1	Clear	None
11:35	7	120	6.46	1.12	7.12	4.82	8.21	3.75	11.8	451.5	Clear	None
11:40	5	120	6.46	1.28	7.03	4.83	5.9	3.56	12	450.8	Clear	None
11:45	5	120	6.46	1.44	7.12	4.83	6.14	3.42	11.8	444.6	Clear	None
11:50	5	120	6.46	1.6	7.13	4.85	4.59	3.37	11.8	443	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-72S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-73D			Date	5/8/2019
Project Name/Location		Ford LTP		Weather	55.04 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	13.5-18.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.23	Total Depth (ft-bmp)	17.37	Water Column (ft.)	13.14	Gallons in Well	2.14
		Pump Intake (ft-bmp)	16	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.841				
Sample Time: Label	13:55	Volume Purged	1.8 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	12:54						
Purge End	13:21						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:55	0	110	4.39	0	9.76	0.065	4.03	8.02	11.8	159	Clear	None
13:00	5	110	4.39	0.15	9.67	0.085	18.8	7.27	11.6	156.7	Clear	None
13:05	5	110	4.39	0.3	9.6	0.086	20.7	7.17	11.6	158.5	Clear	None
13:10	5	110	4.39	0.45	9.45	0.167	16.8	6.88	11.6	168.2	Clear	None
13:15	5	110	4.35	0.6	8.29	2.16	11.4	3.94	11.7	213.1	Clear	None
13:20	5	110	4.39	0.75	7.87	2.71	9.32	1.62	11.7	193.4	Clear	None
13:25	5	110	4.39	0.9	7.37	4.61	23.7	6.06	11.8	151.1	Clear	None
13:30	5	110	4.45	1.05	7.31	4.76	16.6	5.57	11.7	145.6	Clear	None
13:35	5	110	4.45	1.2	7.18	5.18	7.14	5.64	11.7	132.6	Clear	None
13:40	5	110	4.41	1.35	7.04	5.37	2.6	5.03	11.7	133.8	Clear	None
13:45	5	110	4.41	1.5	6.95	5.43	1.42	4.9	12	136.4	Clear	None
13:50	5	110	4.41	1.65	6.87	5.54	0.02	4.64	11.7	138.1	Clear	None
13:55	5	110	4.41	1.8	6.81	5.61	0.02	4.44	11.7	140	Clear	None

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-73D	Well Locked at Arrival:	yes
Condition of Well:	Broken thread tabs,Missing bolts	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-73SR			Date	5/8/2019
Project Name/Location		Ford LTP		Weather	57.02 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.26	Total Depth (ft-bmp)	12.35	Water Column (ft.)	8.09	Gallons in Well	1.31
		Pump Intake (ft-bmp)	6	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.221				
Sample Time: Label	15:45	Volume Purged	1.6 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	14:47						
Purge End	15:49						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:00	0	150	4.41	0	4.65	4.41	12.1	3.94	11.8	284.5	Clear	None
15:05	5	150	4.41	0.2	4.44	5.16	6.72	1.35	11.6	274	Clear	None
15:10	5	150	4.41	0.4	4.39	5.96	4.52	0.9	11.7	267.4	Clear	None
15:15	5	150	4.29	0.6	4.35	6.47	6.59	0.58	11.7	254.5	Clear	None
15:20	5	150	4.29	0.8	4.31	6.64	4.94	0.51	11.7	243.4	Clear	None
15:25	5	150	4.29	1	4.25	6.66	4.57	0.45	11.7	239.5	Clear	None
15:30	5	150	4.29	1.2	4.19	6.69	3.65	0.43	11.6	236.1	Clear	None
15:35	5	150	4.29	1.4	4.14	6.73	3.18	0.37	11.6	233.9	Clear	None
15:40	5	150	4.29	1.6	4.11	6.74	1.62	0.31	11.6	233.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-73SR	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-74			Date	5/17/2019
Project Name/Location		Ford LTP		Weather	64.04 degrees F and Cloudy		
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)	5.4	Total Depth (ft-bmp)	18.72	Water Column (ft.)	13.32	Gallons in Well	2.16
		Pump Intake (ft-bmp)	16.5	Purge Method	Low-Flow	Sample Method	Grab
		Well Volumes Purged	0.806				
Sample Time: Label	14:35	Volume Purged	1.74 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	14:00						
Purge End	14:30						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:00	0	220	5.48	0	7.08	7.63	105	2.12	12	-30	Clear	None
14:05	5	220	5.48	0.29	7.09	7.66	41.9	0.48	12	-47.9	Clear	None
14:10	5	220	5.48	0.58	7.1	7.62	16	0.29	11.9	-66.5	Clear	None
14:15	5	220	5.48	0.87	7.11	7.58	9.65	0.26	11.8	-76.2	Clear	None
14:20	5	220	5.48	1.16	7.1	7.53	4.8	0.24	11.8	-83	Clear	None
14:25	5	220	5.48	1.45	7.11	7.49	3.94	0.2	11.9	-88.7	Clear	None
14:30	5	220	5.48	1.74	7.11	7.45	4.17	0.19	11.8	-92.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	ROW Belden	Well Locked at Arrival:	yes
Condition of Well:	Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-74S			Date	5/8/2019
Project Name/Location		Ford LTP		Weather	57.92 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.27	Total Depth (ft-bmp)	12.75	Water Column (ft.)	7.48	Gallons in Well	1.22
		Pump Intake (ft-bmp)	6.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.311				
Sample Time: Label	16:12	Volume Purged	1.6 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	15:27						
Purge End	16:17						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:33	0	300	5.3	0	6.39	4.29	14.2	0.2	11.7	-120.8	Clear	NA
15:39	6	150	5.3	0.48	6.43	4.64	8.02	0.33	11.8	-121.7	Clear	NA
15:44	5	150	5.31	0.68	6.47	4.85	3.87	0.28	11.8	-136.5	Clear	NA
15:49	5	150	5.31	0.88	6.48	4.95	3.27	0.29	11.7	-139	Clear	NA
15:54	5	150	5.31	1.08	6.5	5.25	2.31	0.25	11.7	-141.3	Clear	NA
15:59	5	150	5.3	1.28	6.51	5.32	2.11	0.2	11.7	-145	Clear	NA
16:04	5	150	5.3	1.48	6.51	5.46	1.54	0.22	11.9	-150.5	Clear	NA
16:07	3	150	5.3	1.6	6.52	5.35	0.75	0.28	11.7	-150.6	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	12182 Belden	Well Locked at Arrival:	yes
Condition of Well:	Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-75D			Date	5/15/2019
Project Name/Location	Ford LTP			Weather	71.06 degrees F and Mostly Cloudy		
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)	4.53	Total Depth (ft-bmp)	16.7	Water Column (ft.)	12.17	Gallons in Well	1.98
		Pump Intake (ft-bmp)	14.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.545				
Sample Time: Label	17:35	Volume Purged	3.06 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	16:35						
Purge End	17:35						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:35	0	200	4.49	0	7.41	7.26	177	0.36	12.2	33.6	white	None
16:40	5	200	4.49	0.26	7.35	7.25	175	0.24	12	13.2	whiteish	None
16:45	5	200	4.5	0.52	7.35	7.17	138	0.21	11.7	-13.8	Clear	None
16:50	5	200	4.51	0.78	8.5	6.97	114	0.11	11.7	-70.9	white	None
16:55	5	200	4.51	1.04	8.1	6.93	92.6	0.13	11.8	-82.5	white	None
17:00	5	200	4.52	1.3	8.1	6.82	86.7	0.11	11.6	-99.9	Clear	None
17:05	5	200	4.52	1.56	8.28	6.75	67.9	0.12	11.7	-110	Clear	None
17:10	5	200	4.52	1.82	8.59	6.7	62.2	0.11	11.7	-114.9	Clear	None
17:15	5	200	4.52	2.08	8.32	6.62	63.9	0.1	11.7	-120.7	Clear	None
17:20	5	200	4.52	2.34	8.15	6.58	52.9	0.07	11.6	-122.3	Clear	None
17:25	5	200	4.52	2.6	8	6.56	43.1	0.07	11.6	-122.4	Clear	None
17:30	5	150	4.5	2.86	8.02	6.63	41.5	0.08	11.8	-122.3	Clear	None
17:35	5	150	4.5	3.06	8	6.49	40	0.09	11.8	-122	Clear	None

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-75D	Well Locked at Arrival:	yes
Condition of Well:	Broken thread tabs,Missing bolts,Poor	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-75SR			Date	5/9/2019
Project Name/Location		Ford LTP		Weather	60.98 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.33	Total Depth (ft-bmp)	12.39	Water Column (ft.)	8.06	Gallons in Well	1.31
		Pump Intake (ft-bmp)	6	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.878				
Sample Time:	Label 10:51	Volume Purged	2.46 gallons	Replicate/Code No.	DUP-01_050919	Sampled by	Madison Olender
	Purge Start 9:48						
	Purge End 11:01						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:49	0	200	7.12	0	7.54	1.05	1.14	0.76	12	113.4	Clear	None
9:54	5	150	7.12	0.26	7.36	1.08	0.02	0.64	11.7	116.3	Clear	None
9:59	5	150	7.12	0.46	7.37	1.1	0.02	0.34	11.7	116.4	Clear	None
10:04	5	150	7.12	0.66	7.36	1.11	0.02	0.32	11.7	116.9	Clear	None
10:09	5	150	7.12	0.86	7.36	1.13	0.02	0.37	11.6	117.4	Clear	None
10:14	5	150	7.12	1.06	7.34	1.4	0.02	0.32	11.7	124.3	Clear	None
10:19	5	150	7.12	1.26	7.33	1.76	0.02	0.36	11.8	127.6	Clear	None
10:24	5	150	7.12	1.46	7.34	1.95	0.06	0.42	11.8	128.8	Clear	None
10:29	5	150	7.12	1.66	7.34	2.11	0.02	0.37	11.7	129.8	Clear	None
10:34	5	150	7.12	1.86	7.34	2.24	0.02	0.36	11.7	130.2	Clear	None
10:39	5	150	7.12	2.06	7.33	2.32	0.02	0.46	11.7	130.3	Clear	None
10:44	5	150	7.12	2.26	7.32	2.39	0.02	0.45	11.8	129.7	Clear	None
10:49	5	150	7.12	2.46	7.32	2.45	0.02	0.42	11.9	129.4	Clear	None

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	3	HCL
VOCs	40 mL Glass	3	HCL

Comments --

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:	11771 Belden	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-76			Date	5/17/2019
Project Name/Location		Ford LTP		Weather	62.96 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)	8.62	Total Depth (ft-bmp)	19.67	Water Column (ft.)	11.05	Gallons in Well	1.8
		Pump Intake (ft-bmp)	17.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.872				
Sample Time: Label	15:12	Volume Purged	1.57 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	14:38						
Purge End	15:16						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:40	0	200	8.67	0	7.71	13.272	3.79	0.37	11.8	-52.4	Clear	NA
14:45	5	200	8.67	0.26	7.74	12.84	1.62	0.28	11.8	-55	Clear	NA
14:50	5	200	8.67	0.52	7.78	12.156	2.59	0.17	11.8	-60	Clear	NA
14:55	5	200	8.67	0.78	7.78	11.77	2.99	0.13	11.7	-61.3	Clear	NA
15:00	5	200	8.67	1.04	7.77	11.575	2.02	0.1	11.6	-61.8	Clear	NA
15:04	4	200	8.67	1.25	7.76	11.517	2.82	0.09	11.6	-61.1	Clear	NA
15:07	3	200	8.67	1.41	7.75	11.397	3.02	0.07	11.5	-59.8	Clear	NA
15:10	3	200	8.67	1.57	7.75	11.375	2.33	0.06	11.6	-59.4	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	35200 Plymouth	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-76S			Date	5/8/2019
Project Name/Location		Ford LTP		Weather	55.04 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.5-14.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.57	Total Depth (ft-bmp)	14.17	Water Column (ft.)	5.6	Gallons in Well	0.91
		Pump Intake (ft-bmp)	10.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	#VALUE!				
Sample Time: Label	13:57	Volume Purged	gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	12:55						
Purge End	14:01						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:56	0	250	8.65	0	7.36	5.78	6.42	10.06	11.2	50.3	Clear	None
13:02	6	225	8.65	0	7.4	5.8	12.2	2.35	11	51.7	Clear	None
13:08	6	150	8.65	0	7.38	5.83	8.54	3.11	11.4	49.9	Clear	None
13:14	6	150	8.65	0	7.39	5.84	6.92	0.15	11.3	47.3	Clear	None
13:19	5	150	8.65	0	7.38	5.86	3.04	1.83	11.3	45.9	Clear	None
13:24	5	150	8.65	0	7.35	6.04	5.08	1.48	11.3	44.4	Clear	None
13:29	5	150	8.65	0	7.32	6.28	1.51	1.93	11.2	44.5	Clear	None
13:34	5	150	8.65	0	7.3	6.57	0.02	2.11	11.4	7.3	Clear	None
13:39	5	150	8.65	0	7.29	6.68	1.7	1.62	11.5	43.8	Clear	None
13:44	5	150	8.65	0	7.28	6.86	2.47	1.5	11.5	43.3	Clear	None
13:49	5	150	8.65	0	7.28	6.9	1.79	1.59	11.4	42.2	Clear	None
13:54	5	150	8.65	0	7.27	6.93	2.04	1.51	11.5	41.2	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments Issues with dissolved oxygen display on YSI still After calibrating, DO Not showing every couple of minutes

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:	Plymouth Rd	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-77			Date	5/16/2019
Project Name/Location	Ford LTP			Weather	54F, sunny		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	9.0-14.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.01	Total Depth (ft-bmp)	13.7	Water Column (ft.)	9.69	Gallons in Well	1.57
		Pump Intake (ft-bmp)	5.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.096				
Sample Time: Label	9:30	Volume Purged	1.72 gallons	Replicate/Code No.	DUP-04_051619	Sampled by	Ellen Redner
Purge Start	8:52						
Purge End	9:30						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:55	0	200	4.02	0	7.2	0.541	2.58	3.29	10.6	155.1	Clear	None
9:00	5	200	4.02	0.26	7.12	0.526	1.93	2.13	10.3	151.1	Clear	None
9:05	5	200	4.02	0.52	7.1	0.578	2.09	0.69	10.2	144.2	Clear	None
9:10	5	200	4.03	0.78	7.16	0.621	2.21	0.4	10.2	136	Clear	None
9:15	5	200	4.03	1.04	7.2	0.633	1.92	0.33	10.3	130.4	Clear	None
9:20	5	200	4.03	1.3	7.26	0.65	2.07	0.31	10.2	119.9	Clear	None
9:25	5	200	4.03	1.56	7.26	0.654	2.12	0.33	10.2	116.5	Clear	None
9:28	3	200	4.03	1.72	7.27	0.653	1.79	0.36	10.2	112.7	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-77	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-77S			Date	5/16/2019
Project Name/Location		Ford LTP		Weather	60.98 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.9	Total Depth (ft-bmp)	12.15	Water Column (ft.)	8.25	Gallons in Well	1.34
		Pump Intake (ft-bmp)	5.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.164				
Sample Time: Label	10:55	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	10:18						
Purge End	10:55						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:20	0	200	3.92	0	7.72	0.543	2.72	1.95	11.1	120.7	Clear	None
10:25	5	200	3.92	0.26	7.4	0.541	0.89	1.34	10.8	118	Clear	None
10:30	5	200	3.92	0.52	7.35	0.543	3.38	0.99	10.7	107.6	Clear	None
10:35	5	200	3.92	0.78	7.33	0.543	2.25	1.15	10.7	101	Clear	None
10:40	5	200	3.92	1.04	7.32	0.544	2.6	1.19	10.6	96.2	Clear	None
10:45	5	200	3.92	1.3	7.33	0.545	1.92	1.29	10.6	92.6	Clear	None
10:50	5	200	3.92	1.56	7.33	0.545	2.6	1.26	10.6	90.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-77S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-78			Date	5/13/2019
Project Name/Location		Ford LTP		Weather	48.02 degrees F and Cloudy		
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)	1.01	Total Depth (ft-bmp)	11.75	Water Column (ft.)	10.74	Gallons in Well	1.75
		Pump Intake (ft-bmp)	9.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.046				
Sample Time: Label	11:40	Volume Purged	1.83 gallons	Replicate/Code No.	--	Sampled by	Caitlin ONeill
Purge Start	10:58						
Purge End	11:35						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:00	0	200	1.05	0	7.31	4.8	13.6	0.76	8.3	-5.5	Clear	None
11:06	6	200	1.08	0.32	7.33	4.75	3.83	0.46	8.2	-35.9	Clear	None
11:10	4	200	1.08	0.53	7.34	4.73	3.04	0.37	8.2	-52.4	Clear	None
11:15	5	200	1.08	0.79	7.35	4.72	0.02	0.32	8.2	-66	Clear	None
11:20	5	200	1.08	1.05	7.35	4.68	0.02	0.29	8.2	-74.6	Clear	None
11:25	5	200	1.09	1.31	7.35	4.66	0.02	0.27	8.1	-82	Clear	None
11:30	5	200	1.09	1.57	7.35	4.63	0.02	0.26	8.2	-87.3	Clear	None
11:35	5	200	1.09	1.83	7.36	4.61	0.02	0.26	8.2	-89.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	ROW Beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-78S			Date	5/13/2019
Project Name/Location		Ford LTP		Weather	46.04 degrees F and Light Rain		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	1.35	Total Depth (ft-bmp)	12.4	Water Column (ft.)	11.05	Gallons in Well	1.8
		Pump Intake (ft-bmp)	3	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.133				
Sample Time: Label	9:45	Volume Purged	3.84 gallons	Replicate/Code No.	--	Sampled by	Caitlin ONeill
Purge Start	8:55						
Purge End	9:43						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:55	0	300	1.4	0	6.97	2.15	3.8	0.83	9.3	113.7	Clear	None
9:00	5	300	1.41	0.4	7.07	2.91	5.32	0.5	9	98.5	Clear	None
9:05	5	300	1.41	0.8	7.12	3.38	6.45	0.45	8.8	84.5	Clear	None
9:10	5	300	1.42	1.2	7.18	3.69	4.47	0.49	8.8	51.6	Clear	None
9:15	5	300	1.42	1.6	7.22	3.79	2.95	0.51	8.7	27.2	Clear	None
9:20	5	300	1.41	2	7.24	3.84	0.02	0.45	8.7	7.3	Clear	None
9:25	5	300	1.41	2.4	7.25	3.76	0.02	0.42	8.8	-8.4	Clear	None
9:30	5	300	1.41	2.8	7.26	3.77	0.02	0.39	8.8	-22.6	Clear	None
9:35	5	300	1.41	3.2	7.27	3.8	0.03	0.38	8.7	-38.2	Clear	None
9:40	5	300	1.41	3.6	7.27	3.82	0.02	0.35	8.7	-41.8	Clear	None
9:43	3	300	1.41	3.84	7.28	3.83	0.02	0.34	8.7	-47.8	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	ROW Beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-79D			Date	5/15/2019
Project Name/Location	Ford LTP			Weather	71.06 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	10.0-15.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.27	Total Depth (ft-bmp)	14.62	Water Column (ft.)	11.35	Gallons in Well	1.84
		Pump Intake (ft-bmp)	12.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.696				
Sample Time: Label	15:55	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	14:53						
Purge End	15:55						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:55	0	200	3.3	0	6.84	3.08	186	0.36	10.2	50.7	orange	None
15:00	5	200	3.3	0.26	11.07	3.08	80.9	0.28	10.5	41.4	h orange	None
15:05	5	200	3.3	0.52	8.02	2.98	56.7	0.21	10.5	26.4	h orange	None
15:10	5	200	3.3	0.78	7.18	2.96	53.8	0.17	10.5	23.7	h orange	None
15:15	5	200	3.3	1.04	7.9	2.91	41.7	0.14	10.4	16.5	h orange	None
15:20	5	200	3.3	1.3	10.63	2.89	30.9	0.15	10.5	8.1	with	None
15:25	5	200	3.3	1.56	7.35	2.89	28	0.13	10.5	6.1	with	None
15:30	5	200	3.3	1.82	6.93	2.88	22.7	0.12	10.5	-0.2	with	None
15:35	5	200	3.3	2.08	7.34	2.87	19.5	0.13	10.4	-6.7	with	None
15:40	5	200	3.3	2.34	7.55	2.87	19.9	0.16	10.5	-7.7	with	None
15:45	5	200	3.3	2.6	6.85	2.85	16.8	0.17	10.5	-14.9	with few	None
15:50	5	200	3.3	2.86	7.34	2.85	13.5	0.16	10.4	-15.6	with few	None
15:55	5	200	3.3	3.12	8.62	2.85	15	0.14	10.4	-20.2	Clear	None

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-79D	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-79SR			Date	5/15/2019
Project Name/Location	Ford LTP			Weather	68.00 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.15	Total Depth (ft-bmp)	12.28	Water Column (ft.)	9.13	Gallons in Well	1.48
		Pump Intake (ft-bmp)	4.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.689				
Sample Time: Label	14:15	Volume Purged	2.5 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	13:28						
Purge End	14:15						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:30	0	300	3.18	0	7.35	0.506	6.13	7.07	11.3	5.8	Clear	None
13:35	5	200	3.18	0.4	6.91	0.492	7.84	5.56	11	19.3	Clear	None
13:40	5	200	3.18	0.66	6.99	0.494	7.54	4.08	10.9	26.7	Clear	None
13:45	5	200	3.18	0.92	7.62	0.521	8.93	3.43	10.9	30.1	Clear	None
13:50	5	200	3.18	1.18	7.35	0.89	5.39	1.15	10.8	43.2	Clear	None
13:55	5	200	3.18	1.44	6.77	0.95	5.58	1.07	10.8	41.9	Clear	None
14:00	5	200	3.18	1.7	6.8	1.26	4.21	0.88	10.8	37.3	Clear	None
14:03	3	200	3.18	1.86	6.79	1.31	6.35	0.9	10.7	36.4	Clear	None
14:06	3	200	3.18	2.02	6.8	1.37	3.67	0.85	10.8	33.9	Clear	None
14:09	3	200	3.18	2.18	6.8	1.42	3.79	0.82	10.9	31.8	Clear	None
14:12	3	200	3.18	2.34	6.81	1.44	3.52	0.84	10.8	28.4	Clear	None
14:15	3	200	3.18	2.5	6.81	1.46	3.1	0.76	10.8	26.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-79SR	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-80SR			Date	5/10/2019
Project Name/Location		Ford LTP		Weather	53.96 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	1.15	Total Depth (ft-bmp)	12.22	Water Column (ft.)	11.07	Gallons in Well	1.8
		Pump Intake (ft-bmp)	2.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.256				
Sample Time: Label	13:40	Volume Purged	2.26 gallons	Replicate/Code No.	MW-80SR_051019	Sampled by	Ellen Redner
Purge Start	12:55						
Purge End	13:40						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:55	0	200	1.12	0	6.95	1.78	35.1	0.43	10.9	46	Clear	None
13:00	5	200	1.11	0.26	6.93	1.8	28.3	0.32	10.7	30.7	Clear	None
13:05	5	250	1.12	0.52	6.92	1.79	18.4	0.37	10.7	15.8	Clear	None
13:10	5	200	1.12	0.85	6.91	1.87	10.3	0.28	10.7	-1	Clear	None
13:15	5	200	1.12	1.11	6.92	1.96	4.84	0.26	10.7	-6.5	Clear	None
13:20	5	200	1.12	1.37	6.92	2.03	2.67	0.28	10.7	-11.5	Clear	None
13:25	5	200	1.12	1.63	6.91	2.04	2.79	0.27	10.7	-13.9	Clear	None
13:30	5	200	1.12	1.89	6.92	2.1	2.53	0.3	10.7	-18.9	Clear	None
13:34	4	200	1.12	2.1	6.92	2.11	1.61	0.29	10.6	-19.7	Clear	None
13:37	3	200	1.12	2.26	6.92	2.11	1.87	0.29	10.6	-20.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
1,4-dioxane	40 mL Glass	9	HCL
VOCs	40 mL Glass	9	HCL

Comments --

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:	MW-80SR	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-81			Date	5/17/2019
Project Name/Location		Ford LTP		Weather	62.96 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.61	Total Depth (ft-bmp)	12.5	Water Column (ft.)	6.89	Gallons in Well	1.12
		Pump Intake (ft-bmp)	10.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.393				
Sample Time: Label	12:03	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	11:28						
Purge End	12:07						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:30	0	200	5.61	0	7.17	1.19	24.4	1.25	9.8	88.9	Clear	None
11:35	5	200	5.61	0.26	7.11	1.21	20.3	0.32	9.5	88.3	Clear	None
11:40	5	200	5.61	0.52	7.09	1.25	15	0.33	9.5	84.5	Clear	None
11:45	5	200	5.61	0.78	7.07	1.25	6.01	0.311	9.6	72.2	Clear	None
11:50	5	200	5.61	1.04	7.07	1.25	4.45	0.34	9.5	61.8	Clear	None
11:55	5	200	5.61	1.3	7.09	1.26	1.47	0.38	9.7	58.1	Clear	None
12:00	5	200	5.61	1.56	7.1	1.27	0.43	0.4	9.6	53.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Mw-81	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-81S			Date	5/17/2019
Project Name/Location		Ford LTP		Weather	64.04 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.81	Total Depth (ft-bmp)	12.52	Water Column (ft.)	6.71	Gallons in Well	1.09
		Pump Intake (ft-bmp)	7	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.908				
Sample Time: Label	11:17	Volume Purged	2.08 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	10:35						
Purge End	11:20						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:35	0	200	6.24	0	7.03	1.43	15.1	3.66	10.2	125.4	Clear	None
10:40	5	200	6.24	0.26	7.03	1.41	20.4	2.58	9.8	121.6	Clear	None
10:45	5	200	6.24	0.52	7.04	1.41	12.2	3.17	9.8	117.8	Clear	None
10:50	5	200	6.24	0.78	7.05	1.41	11.1	3.28	9.8	112.9	Clear	None
10:55	5	200	6.24	1.04	7.04	1.41	11.9	3.76	9.7	108.2	Clear	None
11:00	5	200	6.24	1.3	7.04	1.42	9.1	3.68	9.6	105.2	Clear	None
11:05	5	200	6.24	1.56	7.04	1.41	6.1	3.39	9.6	100.1	Clear	None
11:10	5	200	6.24	1.82	7.04	1.41	5.63	3.36	9.6	97.1	Clear	None
11:15	5	200	6.24	2.08	7.04	1.41	5.95	3.15	9.6	95.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Me-81s	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-82D			Date	5/17/2019
Project Name/Location		Ford LTP		Weather	64.04 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	18.0-23.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.72	Total Depth (ft-bmp)	22.92	Water Column (ft.)	16.2	Gallons in Well	2.63
		Pump Intake (ft-bmp)	21	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.593				
Sample Time: Label	14:27	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	13:54						
Purge End	14:33						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:55	0	200	6.74	0	7.48	0.277	4.6	3.65	9.9	57.9	Clear	None
14:00	5	200	6.74	0.26	7.28	0.288	2.91	3.4	9.7	62.3	Clear	None
14:05	5	200	6.74	0.52	7.09	0.84	5.01	0.73	9.9	59	Clear	None
14:10	5	200	6.74	0.78	7.15	0.96	0.02	0.31	10	34.8	Clear	None
14:15	5	200	6.74	1.04	7.18	0.97	0.02	0.28	10.1	20.6	Clear	None
14:20	5	200	6.74	1.3	7.18	0.98	0.02	0.29	10.1	17	Clear	None
14:25	5	200	6.74	1.56	7.19	0.98	0.02	0.28	10	15.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-82D	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-82SR			Date	5/17/2019
Project Name/Location		Ford LTP		Weather	64.94 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5.0-15.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.49	Total Depth (ft-bmp)	16.11	Water Column (ft.)	9.62	Gallons in Well	1.56
		Pump Intake (ft-bmp)	8	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.000				
Sample Time: Label	13:42	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	13:07						
Purge End	13:45						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:10	0	200	6.11	0	6.99	0.97	15.7	4.92	10.3	70.1	Clear	None
13:15	5	200	6.11	0.26	6.96	0.99	12.5	4.63	10.1	70.8	Clear	None
13:20	5	200	6.11	0.52	6.96	1.01	4.36	4.41	10	69.4	Clear	None
13:25	5	200	6.11	0.78	6.97	1.04	2.85	4.52	9.8	68.4	Clear	None
13:30	5	200	6.11	1.04	6.97	1.09	2.61	4.51	9.6	68	Clear	None
13:35	5	200	6.11	1.3	6.97	1.1	4.01	4.4	9.6	67.5	Clear	None
13:40	5	200	6.11	1.56	6.97	1.12	4	4.34	9.6	67.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Mw-82SR	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-83			Date	5/22/2019
Project Name/Location		Ford LTP		Weather	55.04 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5-10	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.85	Total Depth (ft-bmp)	12.4	Water Column (ft.)	6.55	Gallons in Well	1.06
		Pump Intake (ft-bmp)	10.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.623				
Sample Time: Label	9:32	Volume Purged	1.72 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	8:55						
Purge End	9:36						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
8:57	0	200	5.88	0	6.7	2.08	0.02	4.11	10.6	191.8	Clear	None
9:00	3	200	5.88	0.16	6.76	1.97	0.02	1.51	10.3	191	Clear	None
9:05	5	200	5.88	0.42	6.93	2	0.02	0.49	10.2	175.7	Clear	None
9:10	5	200	5.88	0.68	6.99	2.1	0.02	0.38	10.1	170	Clear	None
9:15	5	200	5.88	0.94	7.04	2.22	0.02	0.29	10.1	162.8	Clear	None
9:20	5	200	5.88	1.2	7.06	2.29	0.02	0.25	10.2	157.9	Clear	None
9:25	5	200	5.88	1.46	7.07	2.25	0.02	0.26	10.3	151.4	Clear	None
9:30	5	200	5.88	1.72	7.08	2.27	0.02	0.24	10.3	151.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-83	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-83S			Date	5/22/2019
Project Name/Location		Ford LTP		Weather	53.96 degrees F and Light Rain		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	6.1	Total Depth (ft-bmp)	12.72	Water Column (ft.)	6.62	Gallons in Well	1.08
		Pump Intake (ft-bmp)	7.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.352				
Sample Time: Label	10:18	Volume Purged	1.46 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	9:45						
Purge End	10:20						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:45	0	200	6.2	0	7.68	0.74	0.02	2.88	10.7	96.6	Clear	None
9:50	3	200	6.2	0.16	7.65	0.72	0.2	2.2	10.7	98.5	Clear	None
9:55	5	200	6.2	0.42	7.71	0.74	0.02	1.76	10.6	101.4	Clear	None
10:00	5	200	6.2	0.68	7.48	1.13	0.02	1.45	10.5	115.4	Clear	None
10:05	5	200	6.2	0.94	7.11	1.61	0.02	0.9	10.5	122.3	Clear	None
10:10	5	200	6.2	1.2	7.08	1.61	0.02	0.9	10.4	119.8	Clear	None
10:15	5	200	6.2	1.46	7.08	1.62	0.02	0.93	10.4	118.7	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-83s	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-84			Date	5/21/2019
Project Name/Location		Ford LTP		Weather	57.92 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.2	Total Depth (ft-bmp)	12.49	Water Column (ft.)	10.29	Gallons in Well	1.67
		Pump Intake (ft-bmp)	11.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.401				
Sample Time: Label	14:07	Volume Purged	2.34 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	13:18						
Purge End	14:17						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:20	0	200	2.2	0	7.24	3.01	7.56	0.92	11.5	-42.7	Clear	None
13:25	5	200	2.2	0.26	7.25	2.95	10.9	0.35	11.5	-64	Clear	None
13:30	5	200	2.2	0.52	7.25	2.92	9.86	0.34	11.6	-72	Clear	None
13:35	5	200	2.2	0.78	7.26	2.89	9.61	0.3	11.6	-81	Clear	None
13:40	5	200	2.2	1.04	7.26	2.89	6.49	0.26	11.6	-89.8	Clear	None
13:45	5	200	2.2	1.3	7.25	2.81	4.44	0.22	11.2	-97.2	Clear	None
13:50	5	200	2.2	1.56	7.24	2.77	3.04	0.19	11.3	-102.8	Clear	None
13:55	5	200	2.2	1.82	7.24	2.76	0.58	0.18	11.3	-110.6	Clear	None
14:00	5	200	2.2	2.08	7.24	2.76	0.7	0.17	11.2	-114	Clear	None
14:05	5	200	2.2	2.34	7.24	2.76	0.56	0.17	11.2	-116.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-84	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-84S			Date	5/9/2019
Project Name/Location		Ford LTP		Weather	69.08 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.19	Total Depth (ft-bmp)	12.71	Water Column (ft.)	10.52	Gallons in Well	1.71
		Pump Intake (ft-bmp)	4	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.825				
Sample Time: Label	13:28	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	12:24						
Purge End	13:34						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:25	0	200	2.19	0	8.18	0.445	6.94	8.95	13.4	86.9	Clear	None
12:30	5	200	2.19	0.26	8.19	0.42	2.11	7.96	12.5	94.3	Clear	None
12:35	5	200	2.19	0.52	8.17	0.428	0.53	7.92	12.2	97	Clear	None
12:40	5	200	2.19	0.78	8.15	0.431	1.9	7.72	12.3	98.7	Clear	None
12:45	5	200	2.19	1.04	8.2	0.436	0.89	7.58	12	98.7	Clear	None
12:50	5	200	2.19	1.3	8.26	0.443	1.31	7.45	12	99.5	Clear	None
12:55	5	200	2.19	1.56	8.22	0.46	0.39	7.35	11.8	102.5	Clear	None
13:00	5	200	2.19	1.82	7.44	0.84	0.02	5.18	11.8	118.3	Clear	None
13:05	5	200	2.19	2.08	7.23	1.27	0.57	3.6	11.8	123.7	Clear	None
13:10	5	200	2.19	2.34	7.21	1.47	0.07	3.27	11.8	123.3	Clear	None
13:15	5	200	2.19	2.6	7.23	1.64	0.45	3.07	11.8	120.5	Clear	None
13:20	5	200	2.19	2.86	7.25	1.75	0.02	3.08	11.8	116.6	Clear	None
13:25	5	200	2.19	3.12	7.26	1.87	0.02	3.09	11.9	111.5	Clear	None

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	34851 Beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-85			Date	5/17/2019
Project Name/Location		Ford LTP		Weather	60.98 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.16	Total Depth (ft-bmp)	12.71	Water Column (ft.)	8.55	Gallons in Well	1.39
		Pump Intake (ft-bmp)	10.5	Purge Method	Low-Flow	Sample Method	Grab
		Well Volumes Purged	1.683				
Sample Time: Label	9:55	Volume Purged	2.34 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	9:00						
Purge End	9:50						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:05	0	200	4.21	0	7.05	3.27	1.94	0.97	10.2	5.4	Clear	None
9:10	5	200	4.21	0.26	7.03	3.23	0.62	0.72	10	-3.3	Clear	None
9:15	5	200	4.21	0.52	7	3.03	0.02	0.43	10.1	-33.3	Clear	None
9:20	5	200	4.21	0.78	7	2.81	0.02	0.33	10	-48.1	Clear	None
9:25	5	200	4.21	1.04	7	2.73	0.02	0.29	9.9	-55.1	Clear	None
9:30	5	200	4.21	1.3	7	2.66	0.02	0.26	9.9	-63.2	Clear	None
9:35	5	200	4.21	1.56	7.01	2.63	0.02	0.26	9.8	-68.3	Clear	None
9:40	5	200	4.21	1.82	7.02	2.63	0.02	0.35	10.2	-70.7	Clear	None
9:45	5	200	4.21	2.08	7.02	2.59	0.02	0.35	10.1	-75.7	Clear	None
9:50	5	200	4.21	2.34	7.02	2.59	0.02	0.35	10.1	-76.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	ROW Rosati	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00002	Well ID	MW-85SR			Date	4/12/2019
Project Name/Location		Ford LTP		Weather	56 degrees F, cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.5-9.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.59	Total Depth (ft-bmp)	8.45	Water Column (ft.)	3.86	Gallons in Well	0.63
		Pump Intake (ft-bmp)	6	Purge Method	Low-Flow	Sample Method	NA
		Well Volumes Purged	4.952				
Sample Time: Label	12:45	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	11:45						
Purge End	12:45						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (-C)/(-F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:45	0	200	4.59	0	7.02	2.16	41.5	0.37	7	15.8	Clear	None
11:50	5	200	4.62	0.26	6.97	2.16	38.2	0.34	7	12.8	Clear	None
11:55	5	200	4.63	0.52	6.95	2.16	31.1	0.33	7	6.2	Clear	None
12:00	5	200	4.63	0.78	6.95	2.16	27.6	0.37	7.1	1.8	Clear	None
12:05	5	200	4.63	1.04	6.94	2.18	18.9	0.4	7	-2.9	Clear	None
12:10	5	200	4.63	1.3	6.93	2.18	12.2	0.43	7	-6.2	Clear	None
12:15	5	200	4.63	1.56	6.93	2.17	8.9	0.44	7.1	-7.4	Clear	None
12:20	5	200	4.63	1.82	6.93	2.17	9.13	0.2	7	-9.4	Clear	None
12:25	5	200	4.63	2.08	6.93	2.16	6.49	0.56	7	-10.4	Clear	None
12:30	5	200	4.63	2.34	6.94	2.15	7.02	0.43	7	-11.5	Clear	None
12:35	5	200	4.63	2.6	6.94	2.15	10.7	0.68	6.9	-12.7	Clear	None
12:40	5	200	4.63	2.86	6.95	2.15	10.6	0.68	7	-13.3	Clear	None
12:45	5	200	4.63	3.12	6.95	2.14	12.3	0.71	6.9	-14.2	Clear	None

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments View Signature

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:	34400 Rosati	Well Locked at Arrival:	n/a
Condition of Well:	NA	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-86			Date	5/21/2019
Project Name/Location		Ford LTP		Weather	59.00 degrees F and Cloudy		
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)	5.31	Total Depth (ft-bmp)	16.61	Water Column (ft.)	11.3	Gallons in Well	1.84
		Pump Intake (ft-bmp)	14.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.848				
Sample Time: Label	15:10	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	14:38						
Purge End	15:21						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:40	0	200	5.3	0	7.23	0.9	8.02	2.45	11.7	-102.7	Clear	None
14:45	5	200	5.3	0.26	7.17	0.87	0.02	0.51	11.2	-126.7	Clear	None
14:50	5	200	5.3	0.52	7.23	0.86	0.02	0.56	11.2	-137.9	Clear	None
14:55	5	200	5.3	0.78	7.26	0.89	0.02	1.17	11.1	-143.9	Clear	None
15:00	5	200	5.3	1.04	7.27	0.94	0.02	1.45	11.3	-147.5	Clear	None
15:05	5	200	5.3	1.3	7.28	0.95	0.02	1.41	11.1	-150	Clear	None
15:10	5	200	5.3	1.56	7.29	0.96	0.02	1.55	11.2	-151.1	Clear	Clear
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	34891 Wadsworth	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-86S			Date	5/13/2019
Project Name/Location		Ford LTP		Weather	55.04 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.33	Total Depth (ft-bmp)	12.34	Water Column (ft.)	7.01	Gallons in Well	1.14
		Pump Intake (ft-bmp)	6.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.789				
Sample Time: Label	16:55	Volume Purged	2.04 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	16:15						
Purge End	16:55						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
16:15	0	200	5.38	0	7.86	0.376	24.3	9.7	11.1	25.8	Clear	None
16:20	5	200	5.38	0.26	7.73	0.386	41.5	9.09	11	32	yellowish	None
16:25	5	200	5.38	0.52	7.67	0.465	18.7	8.63	10.7	47.5	yellowish	None
16:30	5	200	5.38	0.78	7.66	0.474	13.3	8.62	10.6	49	yellowish	None
16:35	5	200	5.38	1.04	7.66	0.486	13.3	8.46	10.6	50.5	yellowish	None
16:40	5	200	5.38	1.3	7.66	0.487	6.05	8.47	10.6	50.9	Clear	None
16:45	5	200	5.38	1.56	7.66	0.49	5.14	8.47	10.6	52.3	Clear	None
16:48	3	200	5.38	1.72	7.66	0.492	4.71	8.37	10.6	52.9	Clear	None
16:51	3	200	5.38	1.88	7.67	0.494	4.52	8.37	10.6	53.3	Clear	None
16:54	3	200	5.39	2.04	7.66	0.498	3.28	8.32	10.6	54.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-86S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-87			Date	5/21/2019
Project Name/Location		Ford LTP		Weather	60.08 degrees F and Cloudy		
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)	8.53	Total Depth (ft-bmp)	18.8	Water Column (ft.)	10.27	Gallons in Well	1.67
		Pump Intake (ft-bmp)	16.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.934				
Sample Time: Label	16:12	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	15:40						
Purge End	16:16						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:40	0	200	5.3	0	9.37	0.223	0.2	0.76	11.7	-102	Clear	None
15:45	5	200	5.3	0.26	9.55	0.254	0.02	0.5	11.9	-97.2	Clear	None
15:50	5	200	5.3	0.52	9.68	0.261	0.02	0.38	11.9	-97.6	Clear	None
15:55	5	200	5.3	0.78	9.64	0.261	0.02	0.28	11.9	-99.2	Clear	None
16:00	5	200	5.3	1.04	9.66	0.267	0.02	0.23	11.9	-100.3	Clear	None
16:05	5	200	5.3	1.3	9.64	0.273	0.02	0.2	12	-101.4	Clear	None
16:10	5	200	5.3	1.56	9.66	0.275	0.02	0.22	11.9	-101.8	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	34901 Standish	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-87S			Date	5/13/2019
Project Name/Location	Ford LTP			Weather	53.06 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.5-14.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	8.29	Total Depth (ft-bmp)	14.11	Water Column (ft.)	5.82	Gallons in Well	0.95
		Pump Intake (ft-bmp)	10	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.905				
Sample Time: Label	15:40	Volume Purged	2.76 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	14:45						
Purge End	15:40						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:45	0	200	8.31	0	8.41	0.404	9.04	6.28	11.3	-18.8	Clear	None
14:50	5	200	8.31	0.26	8.01	0.406	13.4	5.96	11.1	-3.2	Clear	None
14:55	5	200	8.32	0.52	7.94	0.414	11.1	6.2	11	7.9	Clear	None
15:00	5	200	8.32	0.78	7.92	0.411	8.7	5.77	11	15.6	Clear	None
15:05	5	200	8.32	1.04	7.93	0.409	6.53	5.76	10.9	21.1	Clear	None
15:10	5	200	8.32	1.3	7.96	0.402	4.73	5	11.1	25.5	Clear	None
15:15	5	200	8.32	1.56	7.96	0.399	6.03	5.5	11.1	27.2	Clear	None
15:20	5	200	8.31	1.82	7.97	0.395	5.27	4.94	1.1	30.7	Clear	None
15:25	5	200	8.31	2.08	7.98	0.395	5.74	4.83	11.1	32.9	Clear	None
15:30	5	200	8.31	2.34	8	0.391	3.56	4.94	11.1	35.2	Clear	None
15:35	5	200	8.31	2.6	8.01	0.389	3.82	4.72	11.1	35.4	Clear	None
15:38	3	200	8.31	2.76	7.99	0.391	4.27	4.76	11.1	36.6	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-87S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-96S			Date	5/16/2019
Project Name/Location		Ford LTP		Weather	68.00 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.19	Total Depth (ft-bmp)	12.09	Water Column (ft.)	7.9	Gallons in Well	1.28
		Pump Intake (ft-bmp)	5.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.672				
Sample Time: Label	12:25	Volume Purged	2.14 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	11:40						
Purge End	12:25						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:40	0	200	4.2	0	7.45	0.469	7.35	6.77	10.8	117.7	Clear	None
11:45	5	200	4.2	0.26	7.15	0.495	6.53	5.53	10.6	119.7	Clear	None
11:50	5	200	4.2	0.52	7.05	0.616	5.73	2.32	10.4	118.1	Clear	None
11:55	5	200	4.2	0.78	7	0.654	4.57	1.02	10.3	111.4	Clear	None
12:00	5	200	4.2	1.04	7.01	0.654	3.65	1.1	10.3	104.5	Clear	None
12:05	5	200	4.2	1.3	7.73	0.654	2.98	0.83	10.3	97.3	Clear	None
12:10	5	200	4.2	1.56	8.45	0.655	2.88	0.84	10.3	96.8	Clear	None
12:15	5	200	4.2	1.82	8.72	0.653	2.74	0.85	10.2	93.1	Clear	None
12:18	3	200	4.2	1.98	8.76	0.651	2.44	0.79	10.2	91.6	Clear	None
12:21	3	200	4.2	2.14	8.7	0.654	2.04	0.8	10.1	88.2	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-96S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-97S			Date	5/10/2019
Project Name/Location		Ford LTP		Weather	55.04 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.38	Total Depth (ft-bmp)	12.01	Water Column (ft.)	8.63	Gallons in Well	1.4
		Pump Intake (ft-bmp)	5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.921				
Sample Time: Label	16:40	Volume Purged	2.69 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	15:50						
Purge End	16:40						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:50	0	250	3.38	0	7.67	0.509	5.87	4.06	11	19.5	Clear	None
15:55	5	200	3.39	0.33	7.56	0.492	13	2.86	10.7	20.5	Clear	None
16:00	5	200	3.4	0.59	7.5	0.492	12.1	2.86	10.7	20.7	Clear	None
16:05	5	200	3.4	0.85	7.55	0.496	7.1	2.49	10.6	21.9	Clear	None
16:10	5	200	3.4	1.11	7.54	0.505	5.99	2.57	10.6	22.9	Clear	None
16:15	5	200	3.4	1.37	7.55	0.571	3.02	1.86	10.6	26.3	Clear	None
16:20	5	200	3.41	1.63	7.54	0.59	2.54	1.8	10.6	27.3	Clear	None
16:25	5	200	3.41	1.89	7.52	0.66	2.09	1.73	10.5	29.6	Clear	None
16:28	3	200	3.41	2.05	7.51	0.676	1.65	1.75	10.5	30.5	Clear	None
16:31	3	200	3.41	2.21	7.5	0.7	2.18	1.84	10.5	31.5	Clear	None
16:34	3	200	3.41	2.37	7.5	0.73	2.1	1.75	10.5	32.2	Clear	None
16:37	3	200	3.41	2.53	7.49	0.75	1.75	1.74	10.5	32.5	Clear	None
16:40	3	200	3.41	2.69	7.49	0.75	1.99	1.72	10.5	33.1	Clear	None

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-97S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-98S			Date	5/10/2019
Project Name/Location		Ford LTP		Weather	55.04 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	0.1	Total Depth (ft-bmp)	12.1	Water Column (ft.)	12	Gallons in Well	1.95
		Pump Intake (ft-bmp)	2	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.021				
Sample Time: Label	15:15	Volume Purged	1.99 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	14:35						
Purge End	15:15						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:35	0	200	0.58	0	7.2	0.522	3.25	0.61	12.7	-27.5	Clear	None
14:40	5	200	0.58	0.26	7.18	0.522	3.22	0.49	12.4	-26	Clear	None
14:45	5	200	0.58	0.52	7.18	0.525	1.92	0.43	12	-20.5	Clear	None
14:50	5	200	0.6	0.78	7.18	0.532	2.07	0.39	11.8	-17.3	Clear	None
14:55	5	200	0.6	1.04	7.19	0.562	1.08	0.36	11.8	-10.1	Clear	None
15:00	5	200	0.6	1.3	7.2	0.605	1.01	0.37	11.8	-6.5	Clear	None
15:04	4	200	0.6	1.51	7.2	0.614	1.48	0.37	11.8	-6	Clear	None
15:07	3	200	0.6	1.67	7.21	0.635	0.74	0.36	11.9	-5.6	Clear	None
15:10	3	200	0.6	1.83	7.22	0.642	1.79	0.35	11.9	-5.4	Clear	None
15:13	3	200	0.6	1.99	7.22	0.654	1.24	0.34	11.9	-5.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-98S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-99S			Date	5/9/2019
Project Name/Location		Ford LTP		Weather	53.96 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.89	Total Depth (ft-bmp)	12.85	Water Column (ft.)	7.96	Gallons in Well	1.29
		Pump Intake (ft-bmp)	6	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.767				
Sample Time: Label	10:43	Volume Purged	2.28 gallons	Replicate/Code No.	MW-99S_050919	Sampled by	Shantel Johnson
Purge Start	9:54						
Purge End	10:48						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:57	0	200	4.89	0	6.81	1.88	10.3	0.5	11.4	-104.3	Clear	NA
10:02	5	300	4.92	0.26	6.83	2.6	2.87	0.31	11.3	-153.9	Clear	NA
10:07	5	200	4.9	0.66	6.82	3.26	0.96	0.25	11.4	-194	Clear	NA
10:12	5	200	4.91	0.92	6.78	3.9	0.6	0.27	11.4	-220.5	Clear	NA
10:17	5	200	4.92	1.18	6.78	4.08	0.46	0.26	11.6	-235.1	Clear	NA
10:22	5	200	4.92	1.44	6.77	4.32	0.61	0.23	11.5	-252.1	Clear	NA
10:27	5	200	4.92	1.7	6.77	4.46	0.02	0.23	11.5	-269.5	Clear	NA
10:32	5	200	4.93	1.96	6.77	4.55	0.02	0.21	11.6	-277.6	Clear	NA
10:35	3	200	4.92	2.12	6.77	4.62	0.02	0.21	11.5	-279.1	Clear	NA
10:38	3	200	4.92	2.28	6.77	4.67	0.02	0.22	11.5	-282	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	11864 Belden	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	no

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-100S			Date	5/9/2019
Project Name/Location		Ford LTP		Weather	60.98 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.43	Total Depth (ft-bmp)	12.87	Water Column (ft.)	7.44	Gallons in Well	1.21
		Pump Intake (ft-bmp)	7	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.818				
Sample Time: Label	10:50	Volume Purged	2.2 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	9:47						
Purge End	10:52						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:50	0	150	4.29	0	5.3	6	0.14	2.15	11.6	753.6	Clear	None
9:55	5	150	4.29	0.2	5.31	7.41	0.1	1	11.6	707.5	Clear	None
10:00	5	150	4.45	0.4	5.31	7.67	0.02	0.98	11.7	680.5	Clear	None
10:05	5	150	4.45	0.6	5.31	7.94	0.02	0.98	11.7	662.6	Clear	None
10:10	5	150	4.45	0.8	5.32	8.03	1.16	1.02	11.8	638.7	Clear	None
10:15	5	150	4.46	1	5.32	8.19	0.02	1.12	11.9	617.6	Clear	None
10:20	5	150	4.46	1.2	5.31	8.35	0.02	1.07	12	600.6	Clear	None
10:25	5	150	4.46	1.4	5.31	8.4	0.02	1.02	12.1	592.7	Clear	None
10:30	5	150	4.46	1.6	5.32	8.48	0.45	1.03	12	585.4	Clear	None
10:35	5	150	4.46	1.8	5.31	8.47	0.02	1.05	12	577	Clear	None
10:40	5	150	4.46	2	5.32	8.56	0.02	1.06	11.9	573.8	Clear	None
10:45	5	150	4.46	2.2	5.31	8.58	0.02	1.04	12	570.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-100S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-101S			Date	5/8/2019
Project Name/Location		Ford LTP		Weather	57.02 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.5-14.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	7.12	Total Depth (ft-bmp)	14.06	Water Column (ft.)	6.94	Gallons in Well	1.13
		Pump Intake (ft-bmp)	9	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	#VALUE!				
Sample Time: Label	16:41	Volume Purged	gallons	Replicate/Code No.	--	Sampled by	Madison Olender
Purge Start	15:38						
Purge End	16:44						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:39	0	300	7.12	0	8.06	1.35	0.73	1.84	11.3	26.1	Clear	None
15:44	5	300	7.12	0	7.68	1.44	2.08	1	11.4	30	Clear	None
15:49	5	300	7.12	0	7.53	1.57	1.91	0.7	11.2	33.9	Clear	None
15:54	5	300	7.12	0	7.45	1.73	1.22	0.57	11.2	37	Clear	None
15:59	5	300	7.12	0	7.44	1.82	2.42	1	11.2	39	Clear	None
16:05	6	300	7.12	0	7.4	2.24	2.49	0.1	11.2	44.5	Clear	None
16:10	5	300	7.12	0	7.4	2.34	2.05	0.81	11.2	-41.5	Clear	None
16:15	5	300	7.12	0	7.39	2.52	2.17	0.41	11.2	47	Clear	None
16:20	5	300	7.12	0	7.38	2.68	1.43	0.49	11.5	48.2	Clear	None
16:25	5	300	7.12	0	7.37	2.83	1.33	0.59	11.2	49.4	Clear	None
16:30	5	300	7.12	0	7.37	2.88	0.79	0.58	11.2	49.9	Clear	None
16:35	5	300	7.12	0	7.37	2.92	1.43	0.57	11.2	50.6	Clear	None
16:39	4	300	7.12	0	7.37	2.97	1.25	0.61	11.2	50.7	Clear	None

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Belden	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-102			Date	5/17/2019
Project Name/Location		Ford LTP		Weather	62.96 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	10.0-15.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	0.7	Total Depth (ft-bmp)	14.65	Water Column (ft.)	13.95	Gallons in Well	2.27
		Pump Intake (ft-bmp)	12.5	Purge Method	Low-Flow	Sample Method	Grab
		Well Volumes Purged	0.767				
Sample Time: Label	11:10	Volume Purged	1.74 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	10:30						
Purge End	11:05						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:35	0	220	0.75	0	7.29	6.13	35.5	0.5	10.9	-57.3	Clear	None
10:40	5	220	0.75	0.29	7.3	6.12	13.1	0.42	10.8	-72.7	Clear	None
10:45	5	220	0.75	0.58	7.31	6.06	11.3	0.25	10.7	-88	Clear	None
10:50	5	220	0.75	0.87	7.31	6.06	7.72	0.22	10.7	-95.3	Clear	None
10:55	5	220	0.75	1.16	7.32	6.05	3.32	0.19	10.7	-102.7	Clear	None
11:00	5	220	0.75	1.45	7.32	6.04	2.06	0.17	10.7	-106.4	Clear	None
11:05	5	220	0.75	1.74	7.32	6.04	1.08	0.16	10.7	-110.6	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	ROW Rosati	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-102S			Date	5/14/2019
Project Name/Location		Ford LTP		Weather	62.06 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	0.63	Total Depth (ft-bmp)	12.34	Water Column (ft.)	11.71	Gallons in Well	1.9
		Pump Intake (ft-bmp)	2	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.821				
Sample Time: Label	13:00	Volume Purged	1.56 gallons	Replicate/Code No.	MW-102S_051419	Sampled by	Seth Turner
Purge Start	12:23						
Purge End	13:10						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:25	0	200	0.63	0	7.27	2.11	0.86	2.39	13.7	-13.7	Clear	None
12:30	5	200	0.63	0.26	7.23	2.9	1.84	0.41	13.2	-11.2	Clear	None
12:35	5	200	0.63	0.52	7.24	3.26	6.02	0.23	12.9	-12.7	Clear	None
12:40	5	200	0.63	0.78	7.23	3.51	5.66	0.21	12.8	-12.2	Clear	None
12:45	5	200	0.63	1.04	7.22	3.95	3.75	0.19	12.7	-13.5	Clear	None
12:50	5	200	0.63	1.3	7.22	4.05	2.31	0.16	12.6	-14.6	Clear	None
12:55	5	200	0.63	1.56	7.21	4.01	0.93	0.14	12.6	-17	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Me-102s	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-105S			Date	5/14/2019
Project Name/Location		Ford LTP		Weather	64.94 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	1.82	Total Depth (ft-bmp)	11.76	Water Column (ft.)	9.94	Gallons in Well	1.62
		Pump Intake (ft-bmp)	3	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	0.963				
Sample Time: Label	14:20	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	13:44						
Purge End	14:24						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:45	0	200	1.82	0	6.91	0.77	26.6	7.27	12	-39	Clear	None
13:50	5	200	1.82	0.26	6.87	0.78	12.7	0.52	11.5	-61.1	Clear	None
13:55	5	200	1.82	0.52	6.97	1.06	7.73	0.32	11.2	-65.7	Clear	None
14:00	5	200	1.82	0.78	6.98	2.04	3.81	0.24	11.1	-75.7	Clear	None
14:05	5	200	1.82	1.04	7.01	2.58	2	0.21	11.1	-81	Clear	None
14:10	5	200	1.82	1.3	7.03	2.61	0.9	0.18	11.2	-86.5	Clear	None
14:15	5	200	1.82	1.56	7.03	2.65	0.02	0.16	11.1	-89.1	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Me-105S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-106S			Date	5/16/2019
Project Name/Location		Ford LTP		Weather	73.94 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.22	Total Depth (ft-bmp)	11.69	Water Column (ft.)	9.47	Gallons in Well	1.54
		Pump Intake (ft-bmp)	4	Purge Method	Low-Flow	Sample Method	Grab
		Well Volumes Purged	1.883				
Sample Time: Label	16:20	Volume Purged	2.9 gallons	Replicate/Code No.	MW-106S_051619	Sampled by	Christina Weaver
Purge Start	15:20						
Purge End	16:15						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:25	0	220	2.33	0	7.59	0.241	86.5	3.02	11.8	73.8	Clear	None
15:30	5	220	2.35	0.29	7.19	0.233	54.6	0.57	11.7	82.8	Clear	None
15:35	5	220	2.41	0.58	7.06	0.233	40	0.67	11.6	86.4	Clear	None
15:40	5	220	2.35	0.87	7.07	0.236	30.7	0.66	11.5	85.4	Clear	None
15:45	5	220	2.35	1.16	7.07	0.237	19.8	0.7	11.5	83.5	Clear	None
15:50	5	220	2.35	1.45	7.07	0.238	14.2	0.75	11.5	82.8	Clear	None
15:55	5	220	2.35	1.74	7.08	0.239	11.3	0.82	11.4	81.4	Clear	None
16:00	5	220	2.35	2.03	7.09	0.242	10.4	0.81	11.5	80.9	Clear	None
16:05	5	220	2.35	2.32	7.08	0.242	4.8	0.85	11.5	80	Clear	None
16:10	5	220	2.35	2.61	7.1	0.24	4.78	0.89	11.5	79.4	Clear	None
16:15	5	220	2.35	2.9	7.11	0.24	3.89	0.89	11.5	79.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	ROW Beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-107S			Date	5/10/2019
Project Name/Location		Ford LTP		Weather	51.98 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.55	Total Depth (ft-bmp)	12.17	Water Column (ft.)	7.62	Gallons in Well	1.24
		Pump Intake (ft-bmp)	6	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.355				
Sample Time: Label	12:05	Volume Purged	1.68 gallons	Replicate/Code No.	DUP-02_051019	Sampled by	Ellen Redner
Purge Start	11:30						
Purge End	12:05						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:30	0	170	4.75	0	7.39	0.697	7.67	5.53	10	109.8	Clear	None
11:35	5	200	4.91	0.22	7.29	0.72	26.9	5.55	9.9	110.2	Clear	None
11:40	5	200	5.01	0.48	7.31	0.71	19.5	4.44	9.8	109.9	Clear	None
11:45	5	200	5.07	0.74	7.32	0.706	7.08	3.77	9.6	108.8	Clear	None
11:50	5	200	5.08	1	7.33	0.705	4.55	3.6	9.6	108.7	Clear	None
11:55	5	200	5.1	1.26	7.35	0.706	3.68	3.15	9.5	108.4	Clear	None
12:00	5	200	5.12	1.52	7.36	0.706	3.17	3.15	9.5	108.3	Clear	None
12:03	3	200	5.12	1.68	7.37	0.706	3	2.95	9.5	108.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	6	HCL
1,4-dioxane	40 mL Glass	6	HCL

Comments --

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:	MW-107S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-108S			Date	5/14/2019
Project Name/Location		Ford LTP		Weather	69.08 degrees F and Partly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.7	Total Depth (ft-bmp)	12.26	Water Column (ft.)	9.56	Gallons in Well	1.55
		Pump Intake (ft-bmp)	4	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.013				
Sample Time: Label	16:27	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	15:23						
Purge End	16:31						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:25	0	200	2.81	0	7.31	0.71	55.8	6.16	12.4	48.8	brown	NA
15:30	5	200	2.86	0.26	7.3	0.69	53.5	4.62	11.4	51.1	Clear	NA
15:35	5	200	2.86	0.52	7.32	0.7	46.6	4.29	11	53	Clear	NA
15:40	5	200	2.95	0.78	7.24	0.89	34.1	3.39	10.6	49	Clear	NA
15:45	5	200	2.95	1.04	7.19	0.86	16.4	3.04	10.6	47	Clear	NA
15:50	5	200	2.96	1.3	7.17	0.96	10.9	2.59	10.6	46.4	Clear	NA
15:55	5	200	2.96	1.56	7.16	1.18	9.91	1.84	10.7	47.2	Clear	NA
16:00	5	200	2.96	1.82	7.13	1.39	10.9	1.29	10.6	49.6	Clear	NA
16:05	5	200	2.96	2.08	7.08	1.57	12.8	0.85	10.5	39.2	Clear	NA
16:10	5	200	2.96	2.34	7.07	1.6	14.4	0.74	10.5	24.3	Clear	NA
16:15	5	200	2.96	2.6	7.06	1.67	13.6	0.75	10.3	14.4	Clear	NA
16:20	5	200	2.96	2.86	7.05	1.71	14.7	0.67	10.3	4.3	Clear	NA
16:25	5	200	2.96	3.12	7.05	1.77	11.6	0.64	10.3	-2.7	Clear	NA

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	Rosati	Well Locked at Arrival:	yes
Condition of Well:	Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	no

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-131S			Date	5/14/2019
Project Name/Location	Ford LTP			Weather	68.00 degrees F and Mostly Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.18	Total Depth (ft-bmp)	12.64	Water Column (ft.)	9.46	Gallons in Well	1.54
		Pump Intake (ft-bmp)	5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.351				
Sample Time: Label	15:35	Volume Purged	2.08 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	14:48						
Purge End	15:36						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:50	0	200	1.82	0	6.95	5.02	3.5	0.73	11.5	-17.7	Clear	None
14:55	5	200	1.82	0.26	6.96	5.11	3.3	0.31	11.1	-52.4	Clear	None
15:00	5	200	1.82	0.52	6.99	5.11	7.82	0.27	10.8	-68.2	Clear	None
15:05	5	200	1.82	0.78	7	5.11	15.8	0.22	11	-75.9	Clear	None
15:10	5	200	1.82	1.04	7	5.07	12.8	0.21	10.8	-79.9	Clear	None
15:15	5	200	1.82	1.3	7.01	5.01	12.4	0.2	10.9	-83.3	Clear	None
15:20	5	200	1.82	1.56	7.01	4.88	7.16	0.17	10.7	-86.3	Clear	None
15:25	5	200	1.82	1.82	7.01	4.85	7.06	0.17	10.6	-87.2	Clear	None
15:30	5	200	1.82	2.08	7.02	4.81	6.65	0.18	10.5	-88.3	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	Mw-131S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-132S			Date	5/14/2019
Project Name/Location		Ford LTP		Weather	60.08 degrees F and Clear		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-12.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.04	Total Depth (ft-bmp)	12.38	Water Column (ft.)	7.34	Gallons in Well	1.19
		Pump Intake (ft-bmp)	6.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.277				
Sample Time: Label	13:22	Volume Purged	3.9 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	12:37						
Purge End	13:26						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:40	0	150	5.06	0	7.36	2.15	117	3.62	12.3	124.1	brown	NA
12:45	5	150	5.1	0.2	7.38	2.16	83.4	3.29	12.1	108.4	brown	NA
12:50	5	150	5.1	0.4	7.39	2.14	59.1	3.21	12.3	89.8	Clear	NA
12:55	5	150	5.1	0.6	7.39	2.12	37	3.11	12.3	81.8	Clear	NA
13:00	5	150	5.1	0.8	7.39	2.13	22.3	2.97	12.2	74.2	Clear	NA
13:05	65	150	5.1	3.38	7.39	2.12	16.8	2.92	12.4	61.7	Clear	NA
13:10	5	150	5.1	3.58	7.38	2.14	11.6	2.98	12.3	54.7	Clear	NA
13:15	5	150	5.1	3.78	7.38	2.13	12.1	2.83	12.2	48.9	Clear	NA
13:18	3	150	5.1	3.9	7.38	2.12	11.2	2.89	12.1	46.7	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	Rosati	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-133S			Date	5/23/2019
Project Name/Location		Ford LTP		Weather	71.06 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	4.0-9.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.84	Total Depth (ft-bmp)	8.55	Water Column (ft.)	3.71	Gallons in Well	0.6
		Pump Intake (ft-bmp)	6.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.600				
Sample Time: Label	12:27	Volume Purged	1.56 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	11:55						
Purge End	12:30						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:55	0	200	4.89	0	6.74	0.643	14.2	3.56	13	21.6	Clear	None
12:00	5	200	4.89	0.26	6.71	0.66	8.65	2.2	12.8	21.6	Clear	None
12:05	5	200	4.89	0.52	6.77	0.653	5.25	1.45	12.6	18	Clear	None
12:10	5	200	4.89	0.78	6.78	0.654	4.72	1.28	12.6	16.7	Clear	None
12:15	5	200	4.89	1.04	6.79	0.654	4.59	1.13	12.5	14.6	Clear	None
12:20	5	200	4.89	1.3	6.8	0.652	2.46	1.11	12.4	13.4	Clear	None
12:25	5	200	4.89	1.56	6.8	0.651	1.28	1.16	12.3	12.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	106 Stark	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-134S			Date	5/20/2019
Project Name/Location		Ford LTP		Weather	55.94 degrees F and Cloudy and Windy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5.0-10.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	5.77	Total Depth (ft-bmp)	9.46	Water Column (ft.)	3.69	Gallons in Well	0.6
		Pump Intake (ft-bmp)	7	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.200				
Sample Time: Label	16:32	Volume Purged	1.92 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	15:55						
Purge End	16:36						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:57	0	350	5.83	0	7.23	0.562	3.42	1.43	10.3	103.2	Clear	NA
16:02	5	200	5.83	0.46	7.16	0.572	3.88	1.32	10.3	72	Clear	NA
16:07	5	200	5.83	0.72	7.13	0.566	3.89	1.27	10.2	54.7	Clear	NA
16:12	5	200	5.83	0.98	7.12	0.568	3.21	1.33	10.2	45.1	Clear	NA
16:17	5	200	5.83	1.24	7.13	0.574	3.12	1.12	10.2	42.1	Clear	NA
16:22	5	200	5.83	1.5	7.13	0.559	3.41	0.98	10.2	30.5	Clear	NA
16:27	5	200	5.83	1.76	7.13	0.57	3.4	0.97	10.2	29.2	Clear	NA
16:30	3	200	5.83	1.92	7.13	0.569	3.47	1.03	10.1	28.5	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	12051 Stark	Well Locked at Arrival:	yes
Condition of Well:	Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-135S			Date	5/20/2019
Project Name/Location		Ford LTP		Weather	55.94 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	5.0-10.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	4.78	Total Depth (ft-bmp)	9.68	Water Column (ft.)	4.9	Gallons in Well	0.8
		Pump Intake (ft-bmp)	6	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	1.950				
Sample Time: Label	15:08	Volume Purged	1.56 gallons	Replicate/Code No.	DUP-06_052019	Sampled by	Shantel Johnson
Purge Start	14:34						
Purge End	15:15						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
14:36	0	200	4.82	0	7.2	0.531	24.8	7.55	10.3	167.3	Clear	NA
14:41	5	200	4.82	0.26	7.19	0.535	19.2	7.5	10.2	164.5	Clear	NA
14:46	5	200	4.82	0.52	7.13	0.558	14.6	6.81	10	128.9	Clear	NA
14:51	5	200	4.82	0.78	7.11	0.57	11.5	6.41	10	89.6	Clear	NA
14:56	5	200	4.82	1.04	7.1	0.587	7.41	5.95	9.9	61.4	Clear	NA
15:01	5	200	4.82	1.3	7.1	0.584	6.98	6.03	10	53.2	Clear	NA
15:06	5	200	4.82	1.56	7.1	0.586	7.03	5.91	9.9	54.9	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	12033 Stark	Well Locked at Arrival:	yes
Condition of Well:	Fair	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	no

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-136S			Date	5/22/2019
Project Name/Location		Ford LTP		Weather	53.06 degrees F and Heavy Rain		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	1.69	Total Depth (ft-bmp)	7.14	Water Column (ft.)	5.45	Gallons in Well	0.89
		Pump Intake (ft-bmp)	3	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.045				
Sample Time: Label	12:00	Volume Purged	1.82 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	11:20						
Purge End	12:03						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:20	0	200	1.7	0	7.19	0.673	53.8	1.71	10.7	84.9	Clear	None
11:25	5	200	1.7	0.26	7.17	0.73	7.46	0.95	10.6	81.8	Clear	None
11:30	5	200	1.7	0.52	7.19	0.77	0.51	0.61	10.5	69.1	Clear	None
11:35	5	200	1.7	0.78	7.19	0.78	0.02	0.5	10.4	57.7	Clear	None
11:40	5	200	1.7	1.04	7.2	0.79	0.02	0.43	10.4	49.7	Clear	None
11:45	5	200	1.7	1.3	7.2	0.8	0.02	0.39	10.4	33.8	Clear	None
11:50	5	200	1.7	1.56	7.2	0.8	0.02	0.38	10.4	32.6	Clear	None
11:55	5	200	1.7	1.82	7.2	0.8	0.02	0.36	10.4	25.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-136s	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-137S			Date	5/13/2019
Project Name/Location		Ford LTP		Weather	53.06 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.0-7.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	1.3	Total Depth (ft-bmp)	7.3	Water Column (ft.)	6	Gallons in Well	0.97
		Pump Intake (ft-bmp)	2.5	Purge Method	Low-Flow	Sample Method	Grab
		Well Volumes Purged	2.031				
Sample Time: Label	13:10	Volume Purged	1.97 gallons	Replicate/Code No.	--	Sampled by	Caitlin ONeill
Purge Start	12:30						
Purge End	13:05						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:30	0	220	1.35	0	7.19	0.484	36.5	0.6	9.8	-80.6	Clear	None
12:35	4	220	1.37	0.23	7.08	0.543	23.6	0.61	9.6	-68.9	Clear	None
12:40	5	220	1.38	0.52	7.03	0.697	12.4	0.46	9.5	-53.1	Clear	None
12:45	5	220	1.39	0.81	7.03	0.86	3.66	0.33	9.4	-48.4	Clear	None
12:50	5	220	1.4	1.1	7.03	0.96	0.87	0.29	9.4	-47.9	Clear	None
12:55	5	220	1.4	1.39	7.04	0.99	0.62	0.27	9.3	-49.3	Clear	None
13:00	5	220	1.41	1.68	7.04	1	0.75	0.24	9.3	-51.8	Clear	None
13:05	5	220	1.4	1.97	7.04	1.01	0.4	0.23	9.3	-53.4	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	ROW Brewster	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-138S			Date	5/16/2019
Project Name/Location		Ford LTP		Weather	60.98 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.0-7.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	0.5	Total Depth (ft-bmp)	5.98	Water Column (ft.)	5.48	Gallons in Well	0.89
		Pump Intake (ft-bmp)	2	Purge Method	Low-Flow	Sample Method	Grab
		Well Volumes Purged	2.607				
Sample Time: Label	12:10	Volume Purged	2.32 gallons	Replicate/Code No.	--	Sampled by	Christina Weaver
Purge Start	11:15						
Purge End	12:05						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
11:20	0	220	0.6	0	7.29	0.94	13.6	3.2	12.2	99.4	Clear	None
11:25	5	220	0.6	0.29	7.02	1.5	2.62	0.57	11.3	52.4	Clear	None
11:30	5	220	0.6	0.58	7.02	1.57	1.34	0.75	11.2	22.2	Clear	None
11:35	5	220	0.65	0.87	7.06	1.47	0.4	1.09	11.5	2.9	Clear	None
11:40	5	220	0.65	1.16	7.03	1.56	0.47	0.9	11.2	-13.4	Clear	None
11:45	5	220	0.65	1.45	7.05	1.58	0.02	0.83	11.1	-29	Clear	None
11:50	5	220	0.65	1.74	7.06	1.57	0.02	0.89	11.1	-35.3	Clear	None
11:55	5	220	0.65	2.03	7.06	1.58	0.02	0.82	11.1	-40.6	Clear	None
12:00	5	220	0.65	2.32	7.07	1.56	0.02	0.83	11.2	-43.7	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	ROW Beacon	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-139S			Date	5/9/2019
Project Name/Location		Ford LTP		Weather	69.08 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.0-7.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	0.65	Total Depth (ft-bmp)	6.88	Water Column (ft.)	6.23	Gallons in Well	1.01
		Pump Intake (ft-bmp)	2	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.337				
Sample Time: Label	13:21	Volume Purged	2.36 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	12:25						
Purge End	13:26						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
12:29	0	200	0.68	0	6.79	1.06	7.76	0.8	12.4	-179.6	Clear	NA
12:34	5	200	0.68	0.26	6.81	1.1	0.49	0.42	11.9	-242.1	Clear	NA
12:39	5	200	0.68	0.52	6.81	1.11	0.02	0.25	11.8	-314.5	Clear	NA
12:44	5	200	0.68	0.78	6.81	1.12	0.02	0.22	11.5	-332.7	Clear	NA
12:49	5	200	0.68	1.04	6.81	1.12	0.02	0.18	11.4	-358.2	Clear	NA
12:54	5	200	0.68	1.3	6.81	1.13	0.02	0.2	11.3	-374.4	Clear	NA
12:59	5	200	0.68	1.56	6.81	1.13	0.02	0.17	11.3	-385.5	Clear	NA
13:02	3	200	0.68	1.72	6.81	1.13	0.02	0.16	11.5	-389.5	Clear	NA
13:05	3	200	0.68	1.88	6.81	1.13	0.02	0.15	11.4	-397	Clear	NA
13:08	3	200	0.68	2.04	6.81	1.13	0.02	0.15	11.2	-412.1	Clear	NA
13:11	3	200	0.68	2.2	6.81	1.13	0.02	0.17	11.3	-417.7	Clear	NA
13:14	3	200	0.68	2.36	6.8	1.12	0.02	0.13	11.2	-420.5	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	12066 Boston Post	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-140S			Date	5/16/2019
Project Name/Location	Ford LTP			Weather	69.08 degrees F and Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.0-7.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	2.4	Total Depth (ft-bmp)	6.45	Water Column (ft.)	4.05	Gallons in Well	0.66
		Pump Intake (ft-bmp)	4	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.636				
Sample Time: Label	14:20	Volume Purged	2.4 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	13:27						
Purge End	14:20						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
13:30	0	200	2.44	0	9.77	0.139	7.88	6.84	14.3	101.3	Clear	None
13:35	5	200	2.44	0.26	10.78	0.149	9.97	4.18	13.7	99.4	Clear	None
13:40	5	200	2.43	0.52	11.19	0.18	6.01	2.8	13.3	89.5	Clear	None
13:45	5	200	2.43	0.78	1105	0.219	4.93	2.02	13.3	88.3	Clear	None
13:50	5	200	2.43	1.04	11.16	0.264	3.99	1.58	13.4	83.8	Clear	None
13:55	5	200	2.43	1.3	10.07	0.283	3.85	1.53	12.8	80.5	Clear	None
14:00	5	200	2.43	1.56	10.75	0.29	3.95	1.41	13.1	77.3	Clear	None
14:05	5	200	2.43	1.82	7.35	0.308	3.6	1.3	12.7	73.2	Clear	None
14:10	5	200	2.43	2.08	8.29	0.314	3.34	1.24	12.8	72.6	Clear	None
14:13	3	200	2.43	2.24	8.31	0.315	3.4	1.2	12.7	70.1	Clear	None
14:16	3	200	2.43	2.4	8.35	0.318	3.39	1.21	12.7	65.5	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	MW-140S	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-141S			Date	5/15/2019
Project Name/Location	Ford LTP			Weather	71.06 degrees F and Mostly Cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	3.0-8.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.48	Total Depth (ft-bmp)	7.68	Water Column (ft.)	4.2	Gallons in Well	0.68
		Pump Intake (ft-bmp)	5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	3.441				
Sample Time: Label	16:13	Volume Purged	2.34 gallons	Replicate/Code No.	--	Sampled by	Seth Turner
Purge Start	15:25						
Purge End	16:15						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
15:25	0	200	3.63	0	7.04	0.421	0.02	3.95	10.9	63.2	Clear	None
15:30	5	200	3.63	0.26	6.85	0.431	0.02	2.42	10.5	57	Clear	None
15:35	5	200	3.63	0.52	6.83	0.435	0.02	1.95	10.3	45.7	Clear	None
15:40	5	200	3.63	0.78	6.83	0.436	0.02	1.9	10.3	43	Clear	None
15:45	5	200	3.63	1.04	6.84	0.44	0.02	1.85	10.3	33.1	Clear	None
15:50	5	200	3.63	1.3	6.84	0.442	0.02	1.79	10.3	26.9	Clear	None
15:55	5	200	3.63	1.56	6.84	0.446	0.02	1.87	10.2	17.5	Clear	None
16:00	5	200	3.63	1.82	6.85	0.447	0.02	1.9	10.2	12.2	Clear	None
16:05	5	200	3.63	2.08	6.85	0.448	0.02	1.88	10.2	7.3	Clear	None
16:10	5	200	3.63	2.34	6.85	0.45	0.02	1.95	10.1	3.9	Clear	None
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

Constituents Sampled	Container	Number	Preservative
VOCs	40 mL Glass	3	HCL
1,4-dioxane	40 mL Glass	3	HCL

Comments --

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:	12124 Boston Post	Well Locked at Arrival:	yes
Condition of Well:	Good	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	yes

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0006.00003	Well ID	MW-142S			Date	5/23/2019
Project Name/Location		Ford LTP		Weather	66.02 degrees F and Light Rain		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	8.0-13.0	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	3.1	Total Depth (ft-bmp)	6.73	Water Column (ft.)	3.63	Gallons in Well	0.59
		Pump Intake (ft-bmp)	4.5	Purge Method	Low-Flow	Sample Method	Low-Flow
		Well Volumes Purged	2.661				
Sample Time: Label	9:38	Volume Purged	1.57 gallons	Replicate/Code No.	--	Sampled by	Shantel Johnson
Purge Start	9:03						
Purge End	9:41						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
9:05	0	200	3.13	0	6.22	0.826	52	0.96	11.5	89.4	brown	NA
9:10	5	200	3.13	0.26	6.27	0.833	48.2	0.23	11.4	47.5	brown	NA
9:15	5	200	3.13	0.52	6.33	0.832	24.7	0.15	11.5	28	Clear	NA
9:20	5	200	3.13	0.78	6.37	0.831	12.4	0.11	11.5	17.1	Clear	NA
9:25	5	200	3.13	1.04	6.4	0.826	5.24	0.06	11.5	11	Clear	NA
9:29	4	200	3.13	1.25	6.41	0.819	4.03	0.02	11.3	7.9	Clear	NA
9:32	3	200	3.13	1.41	6.42	0.817	4.81	0	11.3	6.1	Clear	NA
9:35	3	200	3.13	1.57	6.43	0.818	3.26	0.01	11.2	4.6	Clear	NA
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments --

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:	Rosati	Well Locked at Arrival:	n/a
Condition of Well:	Pad damaged	Well Locked at Departure:	yes
Well Completion:	Flush mount	Lock Functioning:	n/a

ARCADIS

LOW-FLOW GROUNDWATER SAMPLING FORM

Project No.	MI001454.0004.00002	Well ID	MW-192S			Date	4/11/2019
Project Name/Location		Ford LTP		Weather	38 degrees F, cloudy		
Measuring Pt. Description	Top of Casing	Screen Setting (ft-bmp)	2.5-7.5	Casing Diameter (in.)	2	Well Material	PVC
Static Water Level (ft-bmp)	1.73	Total Depth (ft-bmp)	7.7	Water Column (ft.)	5.97	Gallons in Well	0.97
		Pump Intake (ft-bmp)	3	Purge Method	Low-Flow	Sample Method	NA
		Well Volumes Purged	3.216				
Sample Time: Label	11:45	Volume Purged	3.12 gallons	Replicate/Code No.	--	Sampled by	Ellen Redner
Purge Start	10:45						
Purge End	11:45						

Time	Minutes Elapsed	Flow Rate (mL/min) [100-300 mL/min]	Depth to Water (ft) [± 0.3]	Gallons Purged	pH [± 0.1]	Cond. (mS/cm) [± 3%]	Turbidity (NTU) [± 10%*]	DO (mg/L) [± 10%]	Temp. (°C)/(°F) [± 3%]	Redox (mV) [± 10mV]	Appearance	
											Color	Odor
10:45	0	210	1.92	0	7.42	--	11.9	3.83	5.2	207.2	Clear	None
10:50	5	200	1.93	0.26	7.47	--	9.75	2.43	5	199.6	Clear	None
10:55	5	200	1.93	0.52	7.46	--	7.86	2.15	5	196	Clear	None
11:00	5	200	1.94	0.78	7.47	--	7.29	0.282	5	190.3	Clear	None
11:05	5	200	1.94	1.04	7.47	--	6.16	0.28	5	186.2	Clear	None
11:10	5	200	1.94	1.3	7.46	--	5	1.64	5	180.4	Clear	None
11:15	5	200	1.94	1.56	7.47	--	4.09	2.59	5	176.3	Clear	None
11:20	5	200	1.94	1.82	7.46	--	3.66	2.72	5	171	Clear	None
11:25	5	200	1.94	2.08	7.47	--	3.13	2.39	5	162.7	Clear	None
11:30	5	200	1.94	2.34	7.48	--	3.11	1.83	5	160	Clear	None
11:35	5	200	1.96	2.6	7.46	--	3.33	2.19	5	153.8	Clear	None
11:40	5	200	1.96	2.86	7.48	--	2.93	2.24	5	151.7	Clear	None
11:45	5	200	1.96	3.12	7.46	--	2.54	2.15	5	147.8	Clear	None

* **Turbidity** < 50 NTU and ±10% or within 1 NTU of a previous reading when <10 NTU

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

Comments View Signature

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:	12036 Brewster	Well Locked at Arrival:	n/a
Condition of Well:	NA	Well Locked at Departure:	n/a
Well Completion:	Flush mount	Lock Functioning:	n/a

APPENDIX D

Off-Site Soil Gas Field Sampling Logs

ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): ARCADIS of Michigan LLC, 28550 Cabot Dr Suite 500, Novi, MI, 48377			**Project Name:** Ford LTP **Project Number:** MI001454.0006
Project Manager: Kris Hinskey	**Field Manager:** Caitlin O'Neill		**Site Address:** 34730–34998 Wadsworth St Livonia Wayne MI 48150 US
Phone Number: 248-722-2411	**Special Instructions:**		
Email Address for Result Reporting: Kristoffer.Hinskey@Arcadis.com			**Sampler Info (Name, Phone Number, Email):** Caitlin ONeill 248-722-2411 Caitlin.Oneill@arcadis.com
Helium Detector Model Used: MGD-2002	**Helium Leak Test Method:** Bucket shroud	**Summa Canister Size (1L, 2.7 L, 6L):** 1 L	**Lab:** Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-28-3.0_062419	Belden	6/24/2019	Pass	20.9	0	Pass	180	60	1L1804	1910/23369	10:22	-28.5	10:45	-5.13	3.3	15.9	--
SVMP-25D-6.0_062419	Belden	6/24/2019	Pass	32.1	0	Pass	180	60	1L2319	1845/23801	13:01	-28.5	13:25	-3.83	3.4	16.2	--
SVMP-25S-3.0_062419	Belden	6/24/2019	Pass	32.1	0	Pass	180	60	1L2413	1910/23421	13:01	-28.5	13:26	-4.91	3.6	16.1	--
SVMP-17-2.0_062419	Beacon	6/24/2019	Pass	40.6	0	Pass	180	60	1L1707	1831/23346	15:44	-28.53	16:13	-5.39	5.4	16.3	--
DUP-01_062419	Beacon	6/24/2019	Pass	40.6	0	Pass	180	60	1L2630	1910/23437	15:44	-28.48	16:13	-4.65	5.4	16.3	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Meteorological Data

Date	Time	Temp. (ºF)		Relative Humidity (%)	Barometric Pressure (in. Hg)	Air Speed (mph)	Source of Weather Information
		Indoor	Outdoor				
6/24/2019	11:00:00 AM	--	75	78	29.67	W at 19	National Weather Service
6/24/2019	4:30:00 PM	--	82	59	29.63	W at 17	National Weather Service
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Purge Volume Calculations:

The purge volume for each sample has been pre-calculated using the information below:

* For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.085" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.

* For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations:

ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): ARCADIS of Michigan LLC, 28550 Cabot Dr Suite 500, Novi, MI, 48377			**Project Name:** Ford LTP **Project Number:** MI001454.0006
Project Manager: Kris Hinskey	**Field Manager:** Caitlin O'Neill		**Site Address:** 34730–34998 Wadsworth St Livonia Wayne MI 48150 US
Phone Number: 248-722-2411	**Special Instructions:**		
Email Address for Result Reporting: Kristoffer.Hinskey@Arcadis.com			**Sampler Info (Name, Phone Number, Email):** Caitlin ONeill 248-722-2411 Caitlin.Oneill@arcadis.com
Helium Detector Model Used: MGD-2002	**Helium Leak Test Method:** Bucket shroud	**Summa Canister Size (1L, 2.7 L, 6L):** 1 L	**Lab:** Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-04-3.5_062519	11850 Boston Post	6/25/2019	Pass	24.8	0	Pass	180	60	1L2513	24104	9:45	-28.22	10:14	-4.74	2.1	18.8	--
DUP-02-062519	11850 Boston Post	6/25/2019	Pass	24.8	0	Pass	180	60	1L2884	23660	9:45	-28.36	10:18	-5.1	2.1	18.8	--
SVMP-01S-3.5_062519	34965 Standish	6/25/2019	Pass	26.8	0	Pass	180	60	1L2434	24265	11:05	-28.22	11:31	-5.1	2	18.9	--
SVMP-01D-7.0_062519	34965 Standish	6/25/2019	Pass	26.8	0	Pass	180	60	1L3100	24127	11:03	-28.43	11:32	-4.55	1.9	18.6	--
SVMP-02D-8.5_062519	34963 Standish	6/25/2019	Pass	22.7	0	Pass	180	60	1L2423	23407	12:15	-28.43	12:34	-5.27	4	16.8	--
SVMP-02S-4.5_062519	34963 Standish	6/25/2019	Pass	22.7	0	Pass	180	60	1L3024	24305	12:15	-28.26	12:38	-5.03	3.6	17.1	--
SVMP-03D-7.0_062519	34851 Standish	6/25/2019	Pass	24.3	0	Pass	180	60	000003009	23573	12:57	-28.41	13:25	-6.23	1	19.1	--
SVMP-03S-3.5_062519	34851 Standish	6/25/2019	Pass	24.3	0	Pass	180	60	1L1611	24386	12:57	-28.29	13:21	-5.44	1.1	19.2	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Meteorological Data

Date	Time	Temp. (ºF)		Relative Humidity (%)	Barometric Pressure (in. Hg)	Air Speed (mph)	Source of Weather Information
		Indoor	Outdoor				
6/25/2019	9:45:00 AM	--	71	64	28.93	W at 17	National Weather Service
6/25/2019	12:19:00 PM	--	77	47	29.86	W at 19	National Weather Service
6/25/2019	1:30:00 PM	--	81	41	29.88	W at 18	National Weather Service
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Purge Volume Calculations:

The purge volume for each sample has been pre-calculated using the information below:

* For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.085" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.

* For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations:

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): ARCADIS of Michigan LLC, 28550 Cabot Dr Suite 500, Novi, MI, 48377			**Project Name:** Ford LTP **Project Number:** MI001454.0004
Project Manager: Kris Hinskey	**Field Manager:** Caitlin O'Neill		**Site Address:** 11771 Belden Ct Livonia Wayne MI 48150 US
Phone Number: 248-722-2411	**Special Instructions:**		
Email Address for Result Reporting: Kristoffer.Hinskey@Arcadis.com			**Sampler Info (Name, Phone Number, Email):** Julia McClafferty 734-972-8627 Julia.mcclafferty@arcadis.com
Helium Detector Model Used: MGD-2002	**Helium Leak Test Method:** Bucket shroud	**Summa Canister Size (1L, 2.7 L, 6L):** 1 L	**Lab:** Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-27-4.5_062419	In front of building, right next to curb	6/25/2019	Pass	25.8	0	Pass	180	60	1L1737	24216	11:33	-28.58	11:57	-4.43	2.2	17.9	--
SVMP-12-3.5_062419	To the left of white house	6/25/2019	Pass	26.5	0	Pass	180	60	1L3883	23481	14:45	-28.58	15:08	-4.62	2	18.1	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Meteorological Data

Date	Time	Temp. (ºF)		Relative Humidity (%)	Barometric Pressure (in. Hg)	Air Speed (mph)	Source of Weather Information
		Indoor	Outdoor				
6/24/2019	8:53:00 AM	--	74	79	30	NM	National Weather Service
6/24/2019	1:23:00 PM	--	79	67	30	NM	National Weather Service
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Purge Volume Calculations:

The purge volume for each sample has been pre-calculated using the information below:

* For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.085" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.

* For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations:

ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): ARCADIS of Michigan LLC, 28550 Cabot Dr Suite 500, Novi, MI, 48377			**Project Name:** Ford LTP **Project Number:** MI001454.0004
Project Manager: Kris Hinskey	**Field Manager:** Caitlin O'Neil		**Site Address:** 34409 Rosati Ave Livonia Wayne MI 48150 US
Phone Number: 248-722-2411	**Special Instructions:**		
Email Address for Result Reporting: Kristoffer.Hinskey@Arcadis.com			**Sampler Info (Name, Phone Number, Email):** Julia McClafferty 734-972-8627 Julia.mcclafferty@arcadis.com
Helium Detector Model Used: MGD-2002	**Helium Leak Test Method:** Bucket shroud	**Summa Canister Size (1L, 2.7 L, 6L):** 1 L	**Lab:** Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-23-3.0_062519	Across from field, underneath berry tree, by telephone pole	6/25/2019	Pass	21.5	0	Pass	180	60	1L3039	23379	11:07	-28.5	11:38	-2.11	3.3	17.7	--
SVMP-22-3.0_062519	To the left of the nature trail	6/25/2019	Pass	22.3	0	Pass	180	60	1L1687	24284	10:06	-28.53	10:28	-4.13	1.6	18.6	--
SVMP-24-4.0_062519	Across from West end of Mitten Automotive building	6/25/2019	Pass	20.9	0	Pass	180	60	1L2795	23637	13:04	-28.14	13:30	-3.35	3.7	16.8	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Meteorological Data

Date	Time	Temp. (ºF)		Relative Humidity (%)	Barometric Pressure (in. Hg)	Air Speed (mph)	Source of Weather Information
		Indoor	Outdoor				
6/25/2019	5:53:00 AM	--	63	90	30	SW at 10	National Weather Service
6/25/2019	9:53:00 AM	--	72	64	29.85	undefined at 20	National Weather Service
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Purge Volume Calculations:

The purge volume for each sample has been pre-calculated using the information below:

* For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.085" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.

* For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations:

ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): ARCADIS of Michigan LLC, 28550 Cabot Dr Suite 500, Novi, MI, 48377			**Project Name:** Ford LTP **Project Number:** MI001454.0004
Project Manager: Kris Hinskey	**Field Manager:** Caitlin O'Neill		**Site Address:** 36200 Plymouth Road Livonia Wayne MI 48150 US
Phone Number: 248-722-2411	**Special Instructions:**		
Email Address for Result Reporting: Kristoffer.Hinskey@Arcadis.com			**Sampler Info (Name, Phone Number, Email):** Rachel Bielak 248-946-6331 Rachel.Bielak@Arcadis.com
Helium Detector Model Used: MGD-2002	**Helium Leak Test Method:** Bucket shroud	**Summa Canister Size (1L, 2.7 L, 6L):** 1 L	**Lab:** Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-26-4.0_062419	11895 Belden	6/24/2019	Pass	21.3	0	Pass	180	60	1L1791	23171	12:10	-28.5	12:23	-9.75	8.1	2.4	--
SVMP-08-3.5_062419	34969 Beacon	6/24/2019	Pass	21.1	0	Pass	180	60	1L1706	23171	13:18	-28.58	13:40	-5	2.8	16.3	--
SVMP-09-4.0_062419	34921 Beacon	6/24/2019	Pass	22	0	Pass	180	60	1L3169	23582	14:03	-28.55	14:23	-5	0.6	19.7	--
SVMP-07-3.5_062419	34965 Wadsworth	6/24/2019	Pass	20.9	0	Pass	180	60	1L2869	24236	15:58	-28.55	16:14	-5	1.8	18	--
SVMP-06-4.5_062419	34935 Wadsworth	6/24/2019	Pass	22.2	0	Pass	180	60	1L1576	23308	16:37	-28.58	16:59	-5.5	1.2	19.3	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Meteorological Data

Date	Time	Temp. (ºF)		Relative Humidity (%)	Barometric Pressure (in. Hg)	Air Speed (mph)	Source of Weather Information
		Indoor	Outdoor				
6/24/2019	12:09:00 PM	--	77	73	29.66	NM	National Weather Service
6/24/2019	4:52:00 PM	--	77	73	29.66	NM	National Weather Service
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Purge Volume Calculations:

The purge volume for each sample has been pre-calculated using the information below:

* For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.085" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.

* For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

General Notes or Observations:

ARCADIS

Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): ARCADIS of Michigan LLC, 28550 Cabot Dr Suite 500, Novi, MI, 48377			**Project Name:** Ford LTP **Project Number:** MI001454.0004
Project Manager: Kris Hinskey	**Field Manager:** Caitlin O'Neill		**Site Address:** 36200 Plymouth Rd Livonia Wayne MI 48150 US
Phone Number: 248-722-2411	**Special Instructions:**		
Email Address for Result Reporting: Kristoffer.Hinskey@Arcadis.com			**Sampler Info (Name, Phone Number, Email):** Rachel Bielak 248-946-6331 Rachel.Bielak@Arcadis.com
Helium Detector Model Used: MGD-2002	**Helium Leak Test Method:** Bucket shroud	**Summa Canister Size (1L, 2.7 L, 6L):** 1 L	**Lab:** Eurofins

Sample ID	Sample Location Description	Date	Pre-Sampling Shut-In / Leak-Down Test Pass/Fail?	Helium Tracer Test - Performed During Sample Point Purge			Purge Volume (mL)	Purge Rate (mL/min)	Canister Number	Flow Controller Number	Sample Collection Start Time	Starting Canister Pressure (in. Hg)	Sample Collection End Time	Ending Canister Pressure (in. Hg)	Post-Sampling CO_2 Reading from GEM (%)	Post-Sampling O_2 Reading from GEM (%)	Micromanometer Reading (in. WC)
				Shroud Helium Concentration During Purge (% Helium)	Helium Reading in Purged Vapor (% Helium)	Helium Test Pass/Fail (Purge contains <5% of shroud to pass)?											
SVMP-05-4.5_062519	34851 Wadsworth	6/25/2019	Pass	20.8	0	Pass	180	60	1L2910	23676	9:41	-28.05	10:03	-6.35	0.4	19.3	--
SVMP-21-2.0_062519	34450 Beacon, on Brewster side near driveway	6/25/2019	Pass	23.5	0	Pass	180	60	1L3829	23521	11:30	-28.12	11:52	-5.53	5.9	12.1	--
SVMP-18-3.0_062518	34367 Capitol, west of driveway	6/25/2019	Pass	20.7	0	Pass	180	60	1L2736	23191	12:29	-28.19	12:50	-6.34	5.8	11.8	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Meteorological Data

Date	Time	Temp. (ºF)		Relative Humidity (%)	Barometric Pressure (in. Hg)	Air Speed (mph)	Source of Weather Information
		Indoor	Outdoor				
6/25/2019	9:00:00 AM	--	63	90	30	SW at 10	National Weather Service
6/25/2019	11:00:00 AM	--	66	81	30	16	National Weather Service
6/25/2019	12:49:00 PM	--	69	70	29.83	16	National Weather Service
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--

Purge Volume Calculations:

The purge volume for each sample has been pre-calculated using the information below:

* For sub-slab soil vapor samples the sample train tubing length is ~54 inches and the interior tubing radius is 0.085".
Three volumes of the sample train is 60 milliliters using the equation for volume of a cylinder (volume = pi * radius^2 * height) where Volume = 60 ml, radius = 0.085" and height = 54".
To have sufficient volume to conduct helium leak testing 100 milliliters should be purged from each sample point.

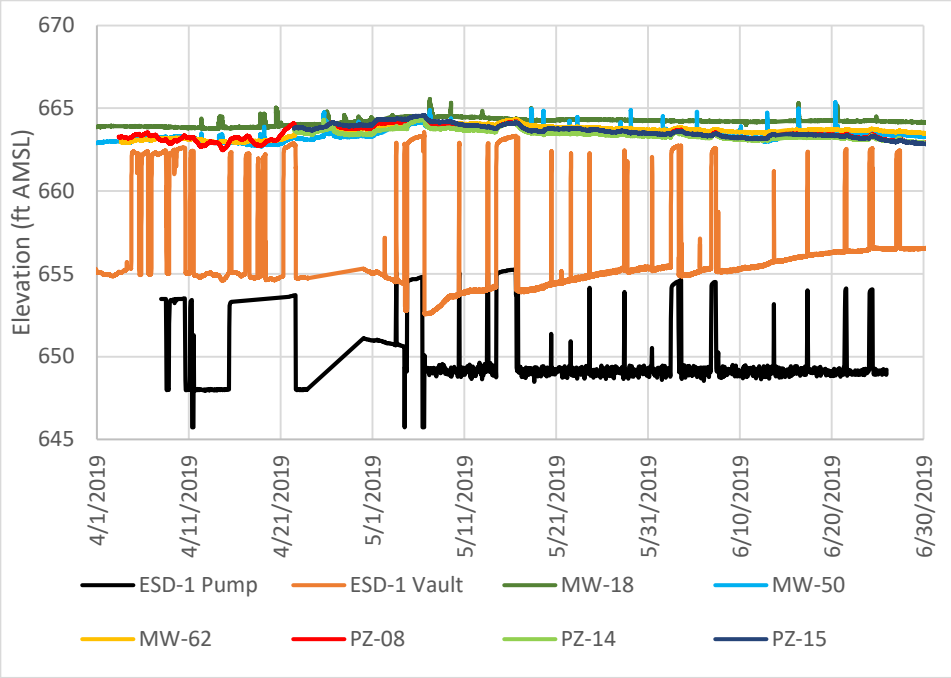
* For exterior soil vapor sampling 60 milliliters should be used for the above ground sample train.
Each additional foot of sub-grade tubing account for approximately 13 ml.
To have sufficient volume to conduct helium leak testing at least 100 milliliters should be purged from each sample point.

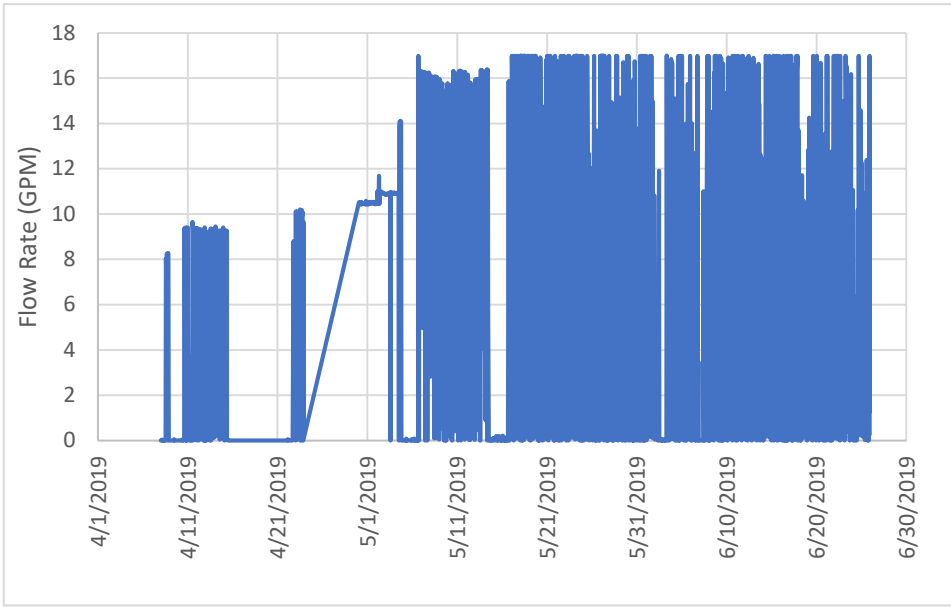
General Notes or Observations:

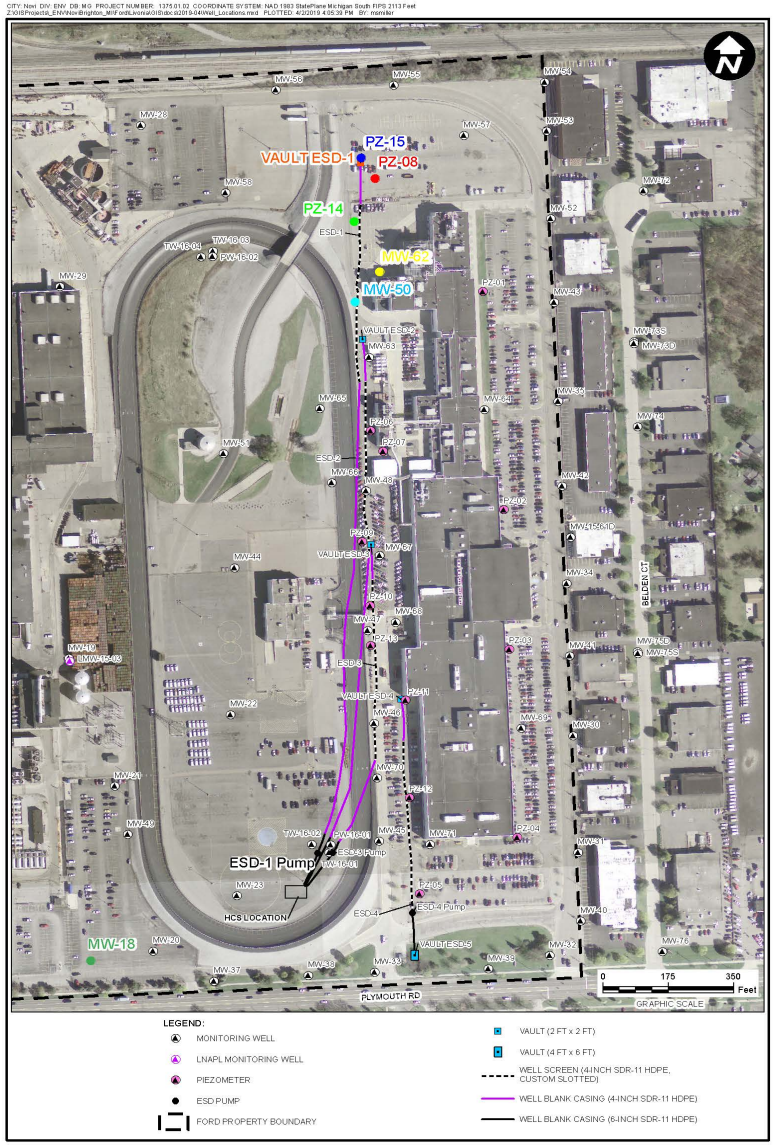
APPENDIX E

Transducer Data

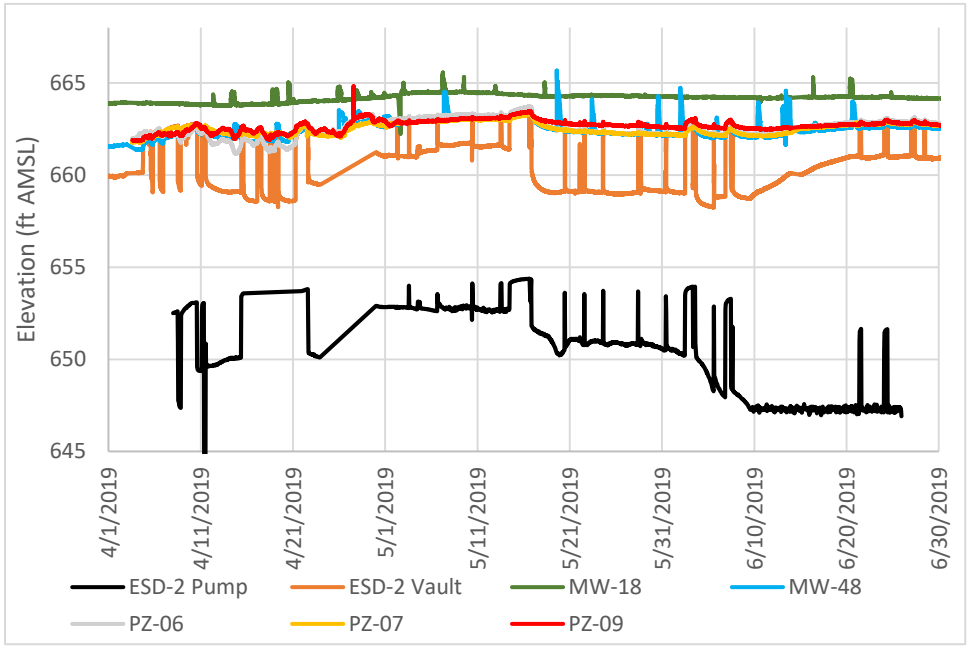
ESD-1

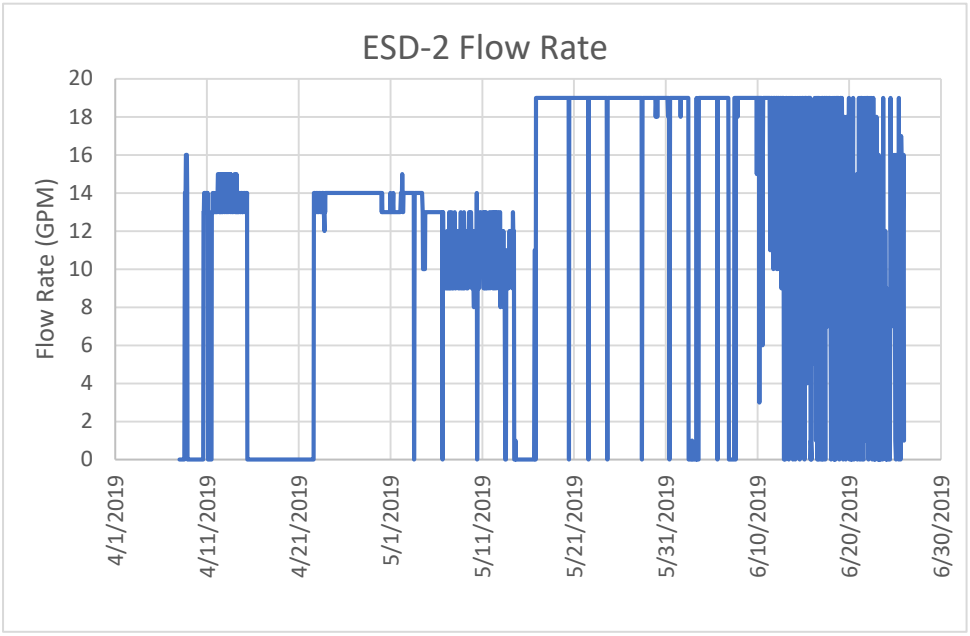

670
665
660
655
650
645
Elevation (ft AMSL)
4/1/2019
4/11/2019
4/21/2019
5/1/2019
5/11/2019
5/21/2019
5/31/2019
6/10/2019
6/20/2019
6/30/2019
ESD-1 Pump
ESD-1 Vault
MW-18
MW-50
MW-62
PZ-08
PZ-14
PZ-15


18
16
14
12
10
8
6
4
2
0
Flow Rate (GPM)
4/1/2019
4/11/2019
4/21/2019
5/1/2019
5/11/2019
5/21/2019
5/31/2019
6/10/2019
6/20/2019
6/30/2019


PZ-15
VAULT ESD-1
PZ-08
PZ-14
MW-62
MW-50
ESD-1 Pump
HCS LOCATION
MW-18
PLYMOUTH RD
0
175
350
Feet
GRAPHIC SCALE
LEGEND:
MONITORING WELL
LNAPL MONITORING WELL
PIEZOMETER
ESD PUMP
FORD PROPERTY BOUNDARY
VAULT (2 FT x 2 FT)
VAULT (4 FT x 6 FT)
WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
WELL BLANK CASING (4-INCH SDR-11 HDPE)
WELL BLANK CASING (6-INCH SDR-11 HDPE)

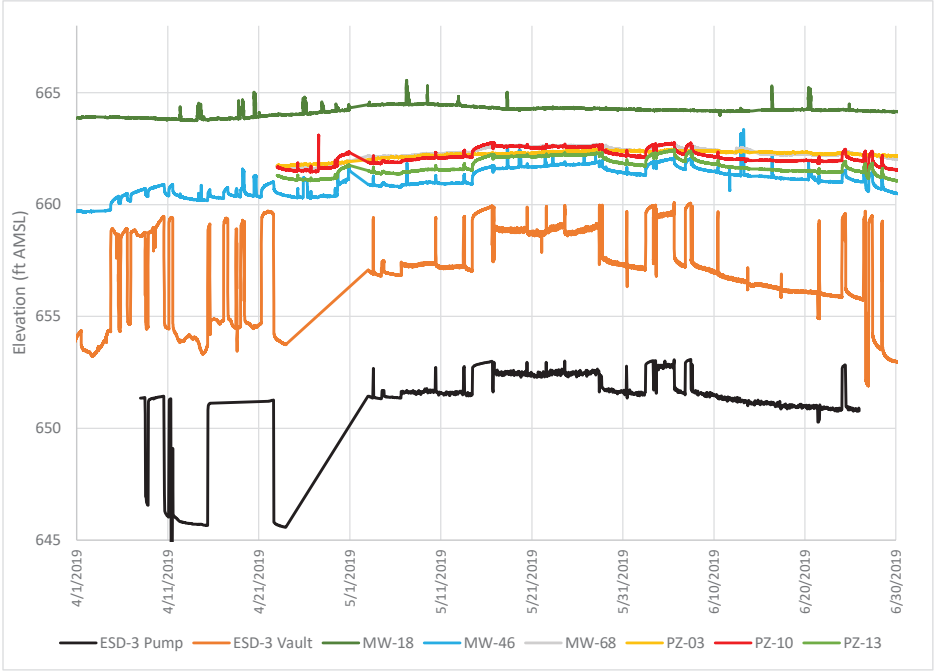
ESD-2

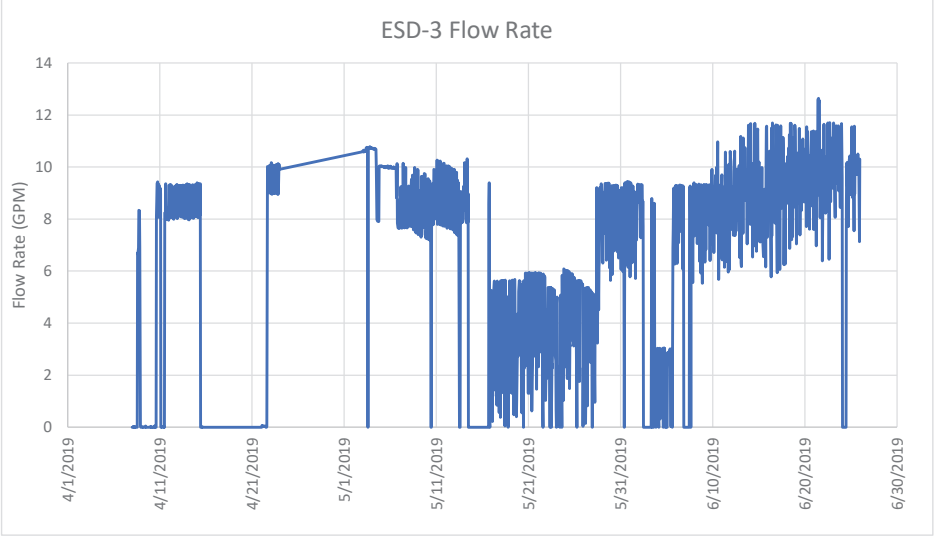

Elevation (ft AMSL)
665
660
655
650
645
4/1/2019
4/11/2019
4/21/2019
5/1/2019
5/11/2019
5/21/2019
5/31/2019
6/10/2019
6/20/2019
6/30/2019
ESD-2 Pump
ESD-2 Vault
MW-18
MW-48
PZ-06
PZ-07
PZ-09

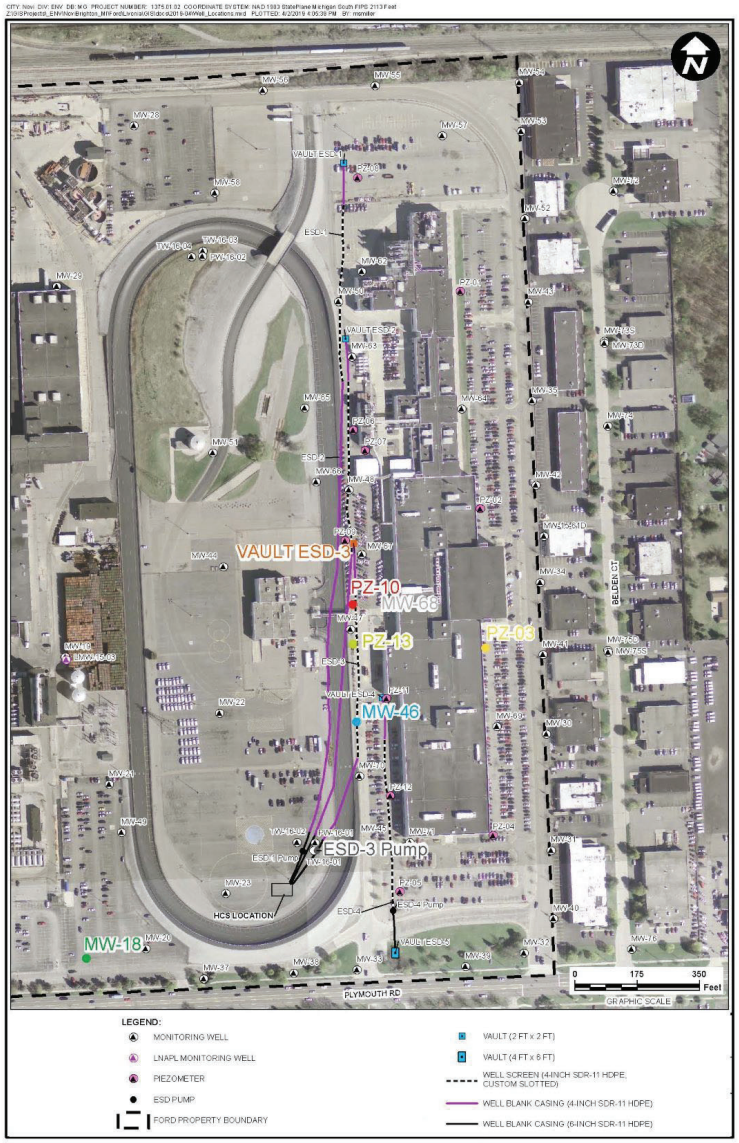

ESD-2 Flow Rate
Flow Rate (GPM)
20
18
16
14
12
10
8
6
4
2
0
4/1/2019
4/11/2019
4/21/2019
5/1/2019
5/11/2019
5/21/2019
5/31/2019
6/10/2019
6/20/2019
6/30/2019


VAULT ESD-2
PZ-06
PZ-07
MW-48
PZ-09
MW-18
HCS LOCATION
PLYMOUTH RD
LEGEND:
MONITORING WELL
LNAPL MONITORING WELL
PIEZOMETER
ESD PUMP
FORD PROPERTY BOUNDARY
VAULT (2 FT x 2 FT)
VAULT (4 FT x 6 FT)
WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
WELL BLANK CASING (4-INCH SDR-11 HDPE)
WELL BLANK CASING (6-INCH SDR-11 HDPE)
0
175
350
Feet
GRAPHIC SCALE

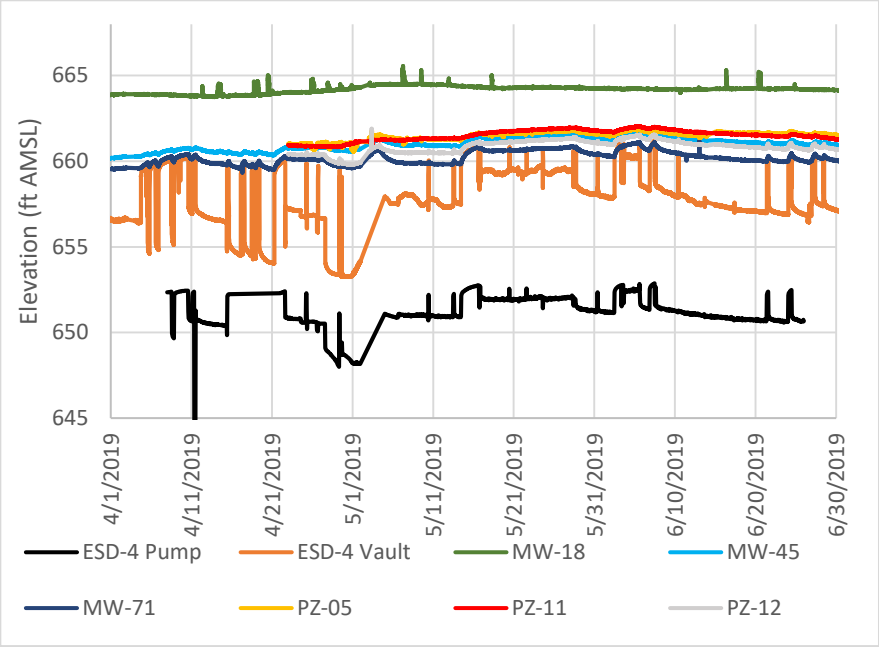
ESD-3

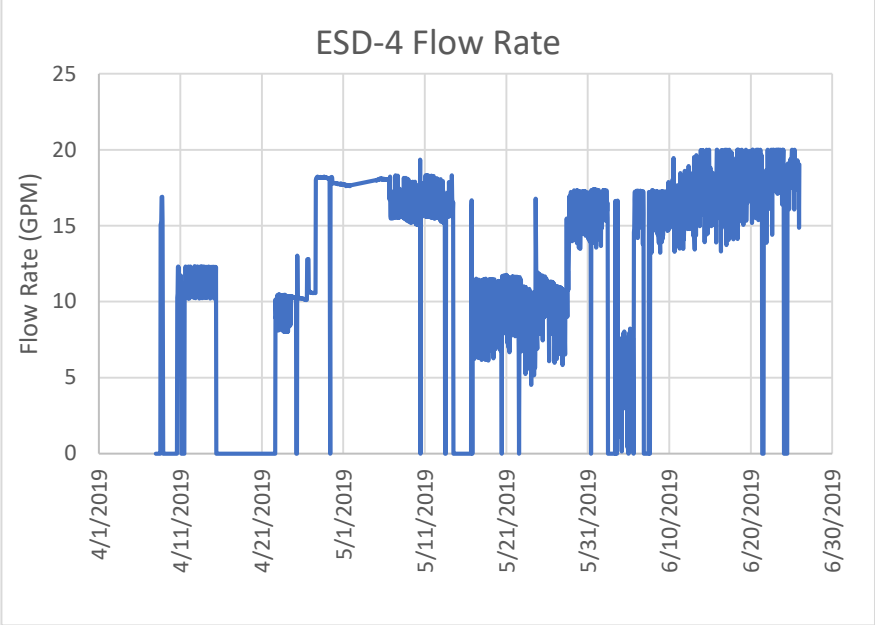

665
660
655
650
645
Elevation (ft AMSL)
4/1/2019
4/11/2019
4/21/2019
5/1/2019
5/11/2019
5/21/2019
5/31/2019
6/10/2019
6/20/2019
6/30/2019
ESD-3 Pump
ESD-3 Vault
MW-18
MW-46
MW-68
PZ-03
PZ-10
PZ-13

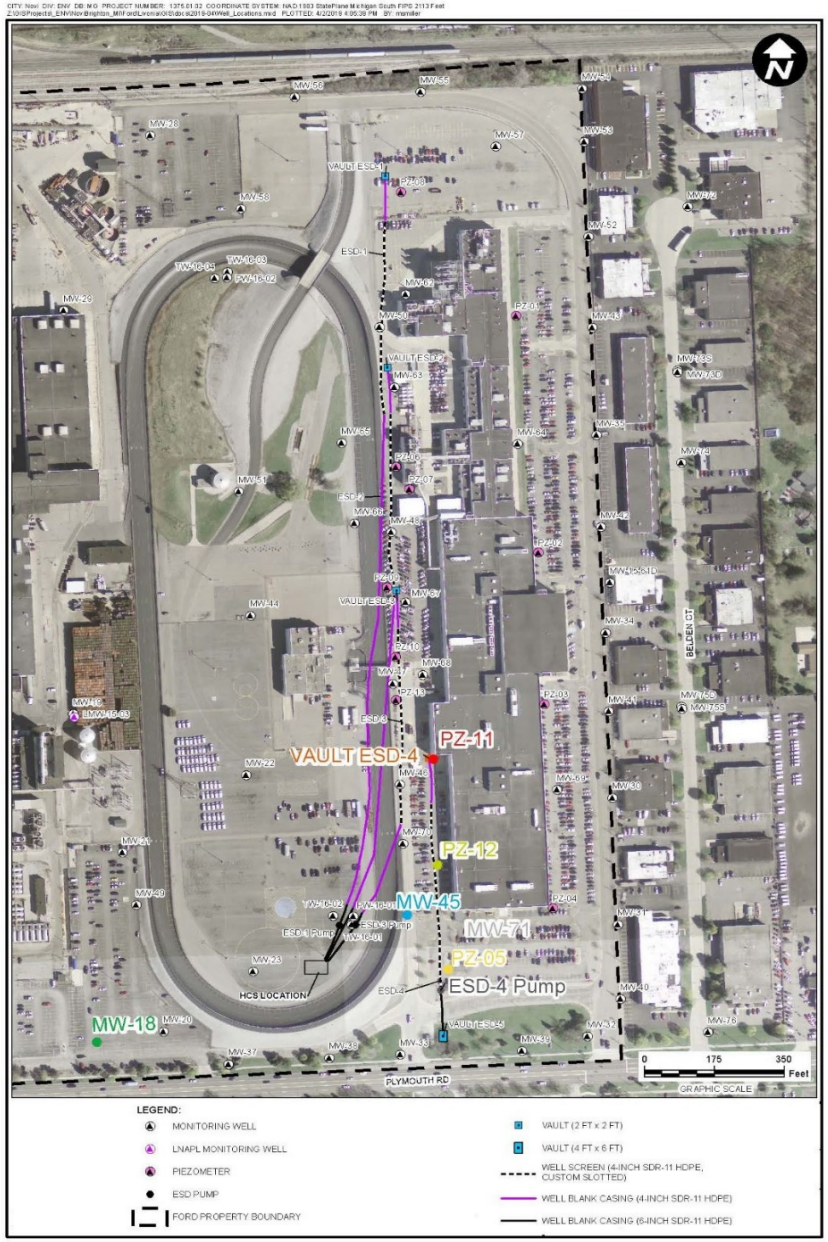

ESD-3 Flow Rate
14
12
10
8
6
4
2
0
Flow Rate (GPM)
4/1/2019
4/11/2019
4/21/2019
5/1/2019
5/11/2019
5/21/2019
5/31/2019
6/10/2019
6/20/2019
6/30/2019


VAULT ESD-3
PZ-10
MW-68
PZ-13
PZ-03
MW-46
ESD-3 Pump
MW-18
HCS LOCATION
PLYMOUTH RD
0
175
350
Feet
GRAPHIC SCALE
LEGEND:
MONITORING WELL
LNAPL MONITORING WELL
PIEZOMETER
ESD PUMP
FORD PROPERTY BOUNDARY
VAULT (2 FT x 2 FT)
VAULT (4 FT x 6 FT)
WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
WELL BLANK CASING (4-INCH SDR-11 HDPE)
WELL BLANK CASING (6-INCH SDR-11 HDPE)

ESD-4


665
660
655
650
645
Elevation (ft AMSL)
4/1/2019
4/11/2019
4/21/2019
5/1/2019
5/11/2019
5/21/2019
5/31/2019
6/10/2019
6/20/2019
6/30/2019
ESD-4 Pump
ESD-4 Vault
MW-18
MW-45
MW-71
PZ-05
PZ-11
PZ-12


ESD-4 Flow Rate
25
20
15
10
5
0
Flow Rate (GPM)
4/1/2019
4/11/2019
4/21/2019
5/1/2019
5/11/2019
5/21/2019
5/31/2019
6/10/2019
6/20/2019
6/30/2019


VAULT ESD-4
PZ-11
PZ-12
MW-45
MW-71
PZ-05
ESD-4 Pump
MW-18
HCS LOCATION
PLYMOUTH RD
BELDEN CT
0
175
350
Feet
GRAPHIC SCALE
LEGEND:
MONITORING WELL
LNAPL MONITORING WELL
PIEZOMETER
ESD PUMP
FORD PROPERTY BOUNDARY
VAULT (2 FT x 2 FT)
VAULT (4 FT x 6 FT)
WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
WELL BLANK CASING (4-INCH SDR-11 HDPE)
WELL BLANK CASING (6-INCH SDR-11 HDPE)

APPENDIX F

Stability Analysis

Trend Analysis Methodology

The Mann-Kendall trend test is a non-parametric test that determines trends based on ranked data. As such, it is relatively insensitive to small data sets, outlier values and non-detect concentrations and does not require the data to fit a specific model. The basic Mann-Kendall trend test is performed by listing the concentrations of the constituent of interest in temporal order and computing the differences between a given measurement and earlier measurements (Gilbert 1987; USEPA 2009). Based on USEPA guidance (USEPA 2009), non-detect values are set to a single value less than that of any detections, and laboratory qualified concentrations are set equal to the laboratory reporting limit.

The Mann-Kendall test statistic (sum of trend [S]) is the difference between the number of strictly positive differences and the number of strictly negative differences. If S is positive, an increasing trend is indicated; if S is negative, a decreasing trend is indicated; and if S is near zero, no trend is apparent. Trends with positive or negative S-statistics were accepted as statistically significant for p-values less than or equal to 0.1 (90% confidence level). The coefficient of variation (CV) is a quantitative measure that can be used to evaluate if concentrations are stable in cases where a statistically significant trend is not apparent. The CV is calculated as the standard deviation of concentrations of each COC measured over time at a monitoring well divided by the mean (average) concentration over the same time period. CV values near or greater than 1 indicate variability in concentrations over time or suggest an underlying trend that is not statistically significant. Lower CV values indicate that concentrations are stable over time. Where no significant trend was found, the trend determination presented was based on the sign and magnitude of the S-statistic, the CV value, and visual examination of the pattern in concentrations over time.

References

Gilbert, R.O. 1987. *Statistical Methods for Environmental Pollution Monitoring*. John Wiley and Sons, Inc. New York.

USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities. Office of Resource Conservation and Recovery. Unified Guidance. EPA 530-R-09-007.

Summary Statistics and Mann-Kendall Results
Ford Motor Company, Livonia Transmission Plant
Livonia, Michigan

Monitoring Well	Constituent	Start Date	End Date	Minimum Concentration	Maximum Concentration	Most Recent Concentration	n	% detections	CV	S-Statistic	p-value	Trend Determination
MW-02	TCE	5/12/2016	6/11/2019	8.2 J	27	< 100	10	20	NA	NA	NA	NA
MW-02	Total DCE	5/12/2016	6/11/2019	550	4190	4190	10	100	0.6	41	<0.01	Statistically Significant Increasing
MW-02	VC	5/12/2016	6/11/2019	140	230	190	10	100	0.1	1	0.500	Stable
MW-05	TCE	5/13/2016	6/11/2019	0.18 J	< 1.0	< 1.0	9	22	NA	NA	NA	NA
MW-05	Total DCE	5/13/2016	6/11/2019	0.39 J	< 1.0	< 1.0	9	22	NA	NA	NA	NA
MW-05	VC	5/13/2016	6/11/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-09	TCE	5/12/2016	6/10/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-09	Total DCE	5/12/2016	6/10/2019	0.29 J	< 1.0	< 1.0	9	11	NA	NA	NA	NA
MW-09	VC	5/12/2016	6/10/2019	0.94 J	7.6	1.2	9	100	0.7	-32	< 0.01	Statistically Significant Decreasing
MW-10	TCE	5/13/2016	6/11/2019	14 J	< 250	< 100	10	10	NA	NA	NA	NA
MW-10	Total DCE	5/13/2016	6/11/2019	< 25	< 250	< 100	10	0	NA	NA	NA	NA
MW-10	VC	5/13/2016	6/11/2019	1200	3600	3600	10	100	0.4	34	< 0.01	Statistically Significant Increasing
MW-22	TCE	5/10/2016	6/10/2019	< 50	< 200	< 200	10	0	NA	NA	NA	NA
MW-22	Total DCE	5/10/2016	6/10/2019	25 J	310	120 J	10	100	0.5	6	0.332	Stable to Increasing
MW-22	VC	5/10/2016	6/10/2019	1300	2600	2600	10	100	0.2	5	0.364	Stable
MW-23	TCE	5/10/2016	6/10/2019	1000	25000	7000	8	100	0.7	2	0.452	Variable
MW-23	Total DCE	5/10/2016	6/10/2019	2580	82100	24000	8	100	0.7	2	0.452	Variable
MW-23	VC	5/10/2016	6/10/2019	77 J	2400	670 J	8	88	0.6	-10	0.138	Potentially Decreasing
MW-34	TCE	5/10/2016	6/15/2019	< 1.0	< 1.0	< 1.0	10	0	NA	NA	NA	NA
MW-34	Total DCE	5/10/2016	6/15/2019	0.29 J	< 1.0	< 1.0	10	60	0.2	--	--	Less than screening criteria
MW-34	VC	5/10/2016	6/15/2019	0.52 J	2.0	0.89 J	10	100	0.4	4	0.398	Stable
MW-35	TCE	5/10/2016	6/15/2019	0.11 J	< 1.0	< 1.0	9	11	NA	NA	NA	NA
MW-35	Total DCE	5/10/2016	6/15/2019	0.19 J	< 1.0	< 1.0	9	11	NA	NA	NA	NA
MW-35	VC	5/10/2016	6/15/2019	1.8	7.2	6.7	9	100	0.4	0	0.540	Stable
MW-40	TCE	5/10/2016	6/15/2019	< 1.0	< 1.0	< 1.0	7	0	NA	NA	NA	NA
MW-40	Total DCE	5/10/2016	6/15/2019	2.6	4.2	2.6	7	100	0.2	--	--	Less than screening criteria
MW-40	VC	5/10/2016	6/15/2019	0.26 J	1.8	0.26 J	7	86	0.6	1	0.500	Stable
MW-41	TCE	5/11/2016	6/15/2019	< 1.0	< 1.0	< 1.0	10	0	NA	NA	NA	NA
MW-41	Total DCE	5/11/2016	6/15/2019	0.77 J	3.5	2.0	10	100	0.3	--	--	Less than screening criteria
MW-41	VC	5/11/2016	6/15/2019	1.9	5.3	1.9	10	100	0.4	-2	0.466	Stable
MW-43	TCE	5/11/2016	6/15/2019	< 1.0	< 1.0	< 1.0	10	0	NA	NA	NA	NA
MW-43	Total DCE	5/11/2016	6/15/2019	< 1.0	< 1.0	< 1.0	10	0	NA	NA	NA	NA
MW-43	VC	5/11/2016	6/15/2019	0.71 J	17	1.5	10	100	1.0	-25	0.014	Statistically Significant Decreasing
MW-46	TCE	5/12/2016	6/11/2019	< 1.0	< 5.0	< 3.3	10	0	NA	NA	NA	NA
MW-46	Total DCE	5/12/2016	6/11/2019	1.6	26	4.0	10	100	0.6	--	--	Less than screening criteria
MW-46	VC	5/12/2016	6/11/2019	13	150	87	10	100	0.7	-7	0.300	Potentially Decreasing
MW-49	TCE	5/12/2016	6/11/2019	< 500	< 2,500	< 710	9	0	NA	NA	NA	NA
MW-49	Total DCE	5/12/2016	6/11/2019	15100	43000	19000	9	100	0.4	-9	0.209	Potentially Decreasing
MW-49	VC	5/12/2016	6/11/2019	4900	10000	7100	9	100	0.2	-9	0.209	Stable to Decreasing
MW-50	TCE	5/11/2016	6/12/2019	< 1.0	< 6.7	< 1.0	10	0	NA	NA	NA	NA
MW-50	Total DCE	5/11/2016	6/12/2019	10	23	10	10	100	0.3	--	--	Less than screening criteria
MW-50	VC	5/11/2016	6/12/2019	48	200	200	10	100	0.4	20	0.045	Statistically Significant Increasing
MW-52	TCE	5/11/2016	6/15/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-52	Total DCE	5/11/2016	6/15/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-52	VC	5/11/2016	6/15/2019	3.4	9.1	3.4	9	100	0.4	-20	0.022	Statistically Significant Decreasing
MW-54	TCE	7/27/2017	6/10/2019	< 1.0	< 1.0	< 1.0	7	0	NA	NA	NA	NA
MW-54	Total DCE	7/27/2017	6/10/2019	< 1.0	< 1.0	< 1.0	7	0	NA	NA	NA	NA
MW-54	VC	7/27/2017	6/10/2019	0.34 J	1.5	0.87 J	7	100	0.4	-9	0.119	Stable to Decreasing
MW-64	TCE	4/24/2017	6/11/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-64	Total DCE	4/24/2017	6/11/2019	0.23 J	< 1.0	0.25 J	9	78	0.2	--	--	Less than screening criteria
MW-64	VC	4/24/2017	6/11/2019	1.3	7.0	1.7	9	100	0.5	-8	0.238	Potentially Decreasing
MW-65	TCE	4/25/2017	6/12/2019	< 1.0	< 4.0	< 1.0	9	0	NA	NA	NA	NA
MW-65	Total DCE	4/25/2017	6/12/2019	3.3	7.0	4.9	9	100	0.3	--	--	Less than screening criteria
MW-65	VC	4/25/2017	6/12/2019	34	61	41	9	100	0.2	-20	0.022	Statistically Significant Decreasing
MW-66	TCE	4/25/2017	6/10/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-66	Total DCE	4/25/2017	6/10/2019	0.19 J	< 1.0	< 1.0	9	11	NA	NA	NA	NA
MW-66	VC	4/25/2017	6/10/2019	1.2	5.6	1.5	9	100	0.5	-19	0.030	Statistically Significant Decreasing
MW-68	TCE	4/24/2017	6/12/2019	0.26 J	< 1.0	0.26 J	9	11	NA	NA	NA	NA
MW-68	Total DCE	4/24/2017	6/12/2019	11	35	35	9	100	0.4	--	--	Less than screening criteria
MW-68	VC	4/24/2017	6/12/2019	2.1	19	19	9	100	0.9	5	0.344	Variable
MW-69	TCE	4/25/2017	6/12/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-69	Total DCE	4/25/2017	6/12/2019	0.19 J	< 1.0	0.23 J	8	25	NA	NA	NA	NA
MW-69	VC	4/25/2017	6/12/2019	< 1.0	4.1	3.6	8	75	0.3	11	0.114	Stable to Increasing
MW-71	TCE	4/24/2017	6/11/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-71	Total DCE	4/24/2017	6/11/2019	0.30 J	< 1.0	0.42 J	9	78	0.1	--	--	Less than screening criteria
MW-71	VC	4/24/2017	6/11/2019	0.31 J	< 1.0	0.77 J	9	78	0.3	--	--	Less than screening criteria
MW-72	TCE	5/22/2017	5/17/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-72	Total DCE	7/26/2017	5/17/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-72	VC	5/22/2017	5/17/2019	1.1	3.9	1.7	9	100	0.5	-14	0.090	Statistically Significant Decreasing
MW-73D	TCE	5/22/2017	5/8/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-73D	Total DCE	7/26/2017	5/8/2019	0.19 J	< 1.0	< 1.0	8	75	0.3	--	--	Less than screening criteria
MW-73D	VC	5/22/2017	5/8/2019	0.71 J	1.3	< 1.0	9	78	0.2	--	--	Less than screening criteria
MW-73S	TCE	5/22/2017	5/8/2019	0.23 J	< 1.0	< 1.0	10	90	0.2	--	--	Less than screening criteria
MW-73S	Total DCE	7/26/2017	5/8/2019	1.3	2.7	1.8	9	100	0.3	--	--	Less than screening criteria
MW-73S	VC	5/22/2017	5/8/2019	0.62 J	1.9	< 1.0	10	90	0.3	-15	0.108	Potentially Decreasing
MW-74	TCE	5/23/2017	5/17/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-74	Total DCE	7/26/2017	5/17/2019	0.41 J	1.3	1.3	8	75	0.5	--	--	Less than screening criteria
MW-74	VC	5/23/2017	5/17/2019	0.7 J	2.8	< 1.0	9	78	0.4	-7	0.272	Stable to Decreasing
MW-75D	TCE	5/23/2017	5/15/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-75D	Total DCE	7/26/2017	5/15/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-75D	VC	5/23/2017	5/15/2019	1.6	6.4	1.7	9	100	0.6	-29	< 0.01	Statistically Significant Decreasing
MW-79D	TCE	5/24/2017	5/15/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-79D	Total DCE	7/25/2017	5/15/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-79D	VC	5/24/2017	5/15/2019	1.3	4.1	2.6	9	100	0.4	-18	0.038	Statistically Significant Decreasing
MW-80S	TCE	5/24/2017	5/10/2019	< 1.0	< 1.0	< 1.0	10	0	NA	NA	NA	NA
MW-80S	Total DCE	7/25/2017	5/10/2019	0.18 J	< 1.0	< 1.0	9	11	NA	NA	NA	NA
MW-80S	VC	5/24/2017	5/10/2019	1.4	7.6	3.2	10	100	0.5	-21	0.036	Statistically Significant Decreasing
MW-85	TCE	5/25/2017	5/17/2019	< 1.0	< 1.0	< 1.0	9	0	NA	NA	NA	NA
MW-85	Total DCE	7/25/2017	5/17/2019	< 1.0	< 1.0	< 1.0	8	0	NA	NA	NA	NA
MW-85	VC	5/25/2017	5/17/2019	5.4	8.6	5.4	9	100	0.2	-24	< 0.01	Statistically Significant Decreasing
TW-16-02	TCE	4/25/2017	6/10/2019	< 250	< 1000	< 250	9	0	NA	NA	NA	NA
TW-16-02	Total DCE	4/25/2017	6/10/2019	3008	7830	3008	9	100	0.4	4	0.381	Potentially Increasing
TW-16-02	VC	4/25/2017	6/10/2019	550	15000	550	9	100	0.4	-23	< 0.01	Statistically Significant Decreasing
TW-16-04	TCE	4/25/2017	6/11/2019	< 1.0	< 6.7	< 2.5	9	0	NA	NA	NA	NA
TW-16-04	Total DCE	4/25/2017	6/11/2019	14	25	14	9	100	0.2	--	--	Less than screening criteria
TW-16-04	VC	4/25/2017	6/11/2019	51	150	51	9	100	0.4	-27	< 0.01	Statistically Significant Decreasing

Notes:
All concentrations are micrograms per liter
TCE = trichloroethene
Total DCE = sum of cis-1,2-DCE, trans-1,2-DCE, and 1,1-DCE. Non-detect concentrations taken as zero.
VC = vinyl chloride
< = less than the posted reporting limit
n = number of samples included in analysis
% = percent
CV = coefficient of variation; low values indicate stable concentrations. Values near or greater than 1 suggest variability and/or a temporal trend.
NA = not applicable due to elevated proportion of non-detect concentrations
-- = Trend analysis not conducted because each detected concentration is below the applicable screening level.
S-Statistic: positive values suggest increasing trend, negative values suggest decreasing trend, values near zero indicate stability or variability.
p-value: values less than 0.1 indicate a statistically significant trend at 90% confidence.

CITY: Novi DIV: ENV DB: MG PIC: R_ELLIS PM: K_HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
\\corpstorage\Data\ArcGisData\GISProjects_ENV\NoviBrighton_MIFord\Livonia\GIS\docs\2018-10\MK_Trends_20181022.mxd PLOTTED: 10/22/2018 11:50:54 AM BY: dolexa

ON-SITE AREA

OFF-SITE AREA

LIVONIA TRANSMISSION PLANT

TEST TRACK

ATNPC BUILDING

MW-54
MW-72
MW-85
MW-52
TW-16-04
MW-50
MW-43
MW-73S
MW-79D
MW-80S
MW-73D
MW-35
MW-65
MW-64
MW-74
MW-66
MW-34
MW-68
MW-41
MW-75D
MW-22
MW-46
MW-69
MW-05
MW-02
MW-10
MW-49
TW-16-02
MW-71
MW-23
MW-40
MW-09

VAULT V-ESD-1
VAULT V-ESD-2
VAULT V-ESD-3
VAULT V-ESD-4
VAULT V-ESD-5

ROSATI AVE
CONCORD ST
CAPITOL ST
BREWSTER ST
BELDEN CT
BOSTON POST ST
STARK RD
WADSWORTH ST
STANDISH ST
PRISCILLA LN
LEVAN RD
PLYMOUTH RD
YALE ST
YALE AVE
ELMIRA ST
WAYNE RD
LAUREL ST

N

0 400 800
SCALE IN FEET

LEGEND

TRICHLOROETHENE TRENDS

- NO SIGNIFICANT TREND
- CONSTITUENT BELOW LABORATORY REPORTING LIMIT OR APPLICABLE SCREENING LEVEL
- AREA OF CONCERN
- FORD PROPERTY BOUNDARY
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY

NOTES:

ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

MANN-KENDALL STATISTICAL TRICHLOROETHENE TREND RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: Novi DIV: ENV DB: MG PIC: R_ELLIS PM: K_HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
\\corpstorage\Data\ArcGisData\GISProjects_ENV\Novi\Brighton_MI\Ford\Livonia\GIS\docs\2018-10\MK_Trends_20181022.mxd PLOTTED: 4/15/2019 1:46:05 PM BY: dolexa

ON-SITE AREA

OFF-SITE AREA

LIVONIA TRANSMISSION PLANT

TEST TRACK

ATNPC BUILDING

MW-54 MW-72 MW-85 MW-52 MW-43 MW-73D MW-73S MW-79D MW-80S MW-35 MW-74 MW-34 MW-41 MW-75D MW-68 MW-22 MW-46 MW-69 MW-05 MW-02 MW-10 MW-49 MW-71 MW-23 MW-40 MW-09 MW-50 MW-65 MW-64 MW-66

TW-16-04 TW-16-02

VAULT V-ESD-1 VAULT V-ESD-2 VAULT V-ESD-3 VAULT V-ESD-4 VAULT V-ESD-5

ROSATI AVE CONCORD ST CAPITOL ST BREWSTER ST BELDEN CT BOSTON POST ST STARK RD WADSWORTH ST STANDISH ST PRISCILLA LN LEVAN RD PLYMOUTH RD YALE ST YALE AVE ELMIRA ST WAYNE RD LAUREL ST

0 400 800
SCALE IN FEET

LEGEND

TOTAL DICHLOROETHENE TRENDS

- INCREASING TREND
- NO SIGNIFICANT TREND
- CONSTITUENT BELOW LABORATORY REPORTING LIMIT OR APPLICABLE SCREENING LEVEL
- AREA OF CONCERN
- FORD PROPERTY BOUNDARY
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY

NOTES:

ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

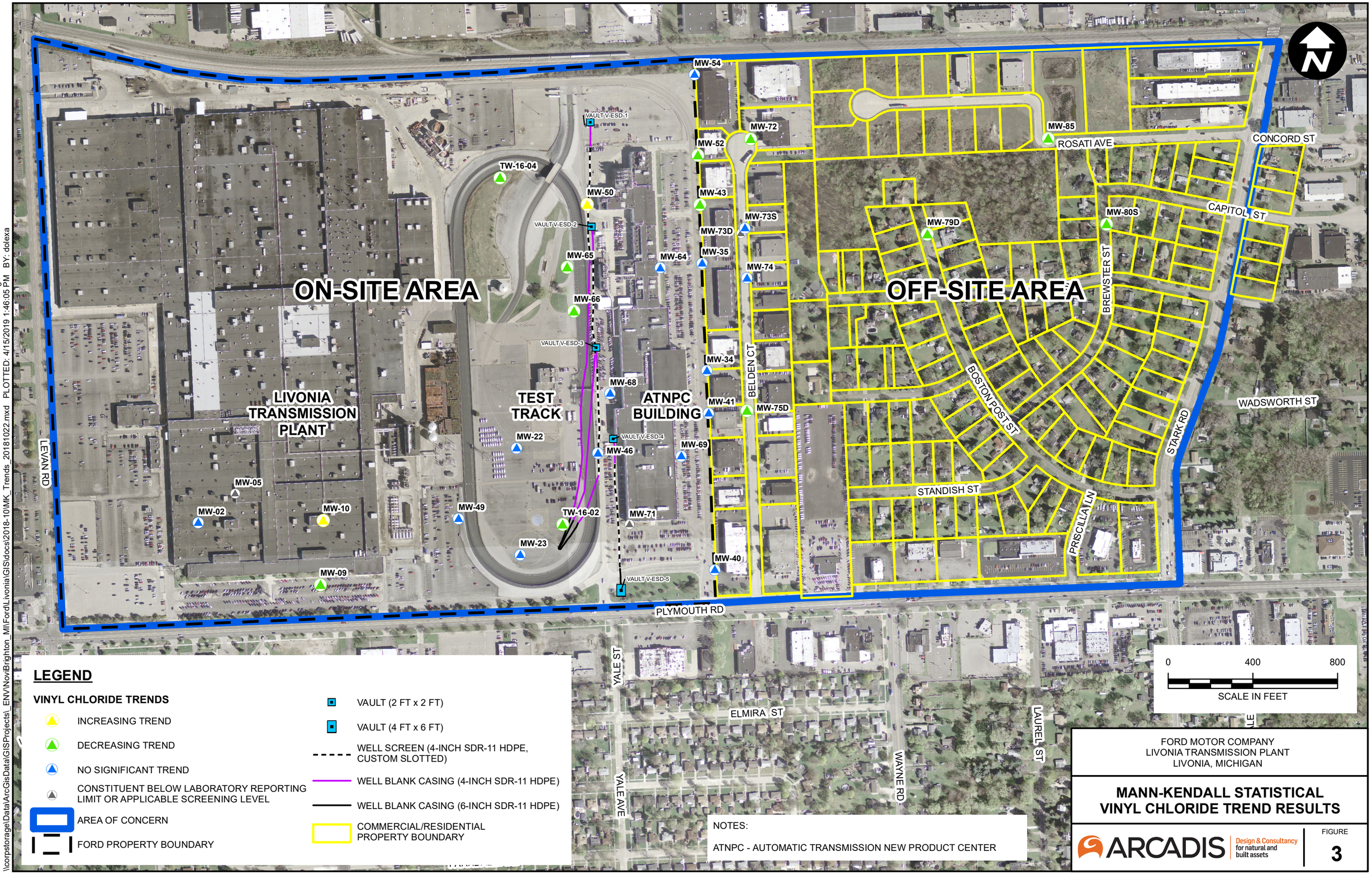
FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

MANN-KENDALL STATISTICAL TOTAL DICHLOROETHENE TREND RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: Novi DIV: ENV DB: MG PIC: R_ELLIS PM: K_HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet
\\corpstorage\Data\ArcGisData\GISProjects_ENV\Novi\Brighton_MI\Ford\Livonia\GISdocs\2018-10\MK_Trends_20181022.mxd PLOTTED: 4/15/2019 1:46:05 PM BY: dolexa



LEGEND

VINYL CHLORIDE TRENDS

- INCREASING TREND
- DECREASING TREND
- NO SIGNIFICANT TREND
- CONSTITUENT BELOW LABORATORY REPORTING LIMIT OR APPLICABLE SCREENING LEVEL
- AREA OF CONCERN
- FORD PROPERTY BOUNDARY
- VAULT (2 FT x 2 FT)
- VAULT (4 FT x 6 FT)
- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED)
- WELL BLANK CASING (4-INCH SDR-11 HDPE)
- WELL BLANK CASING (6-INCH SDR-11 HDPE)
- COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY

NOTES:

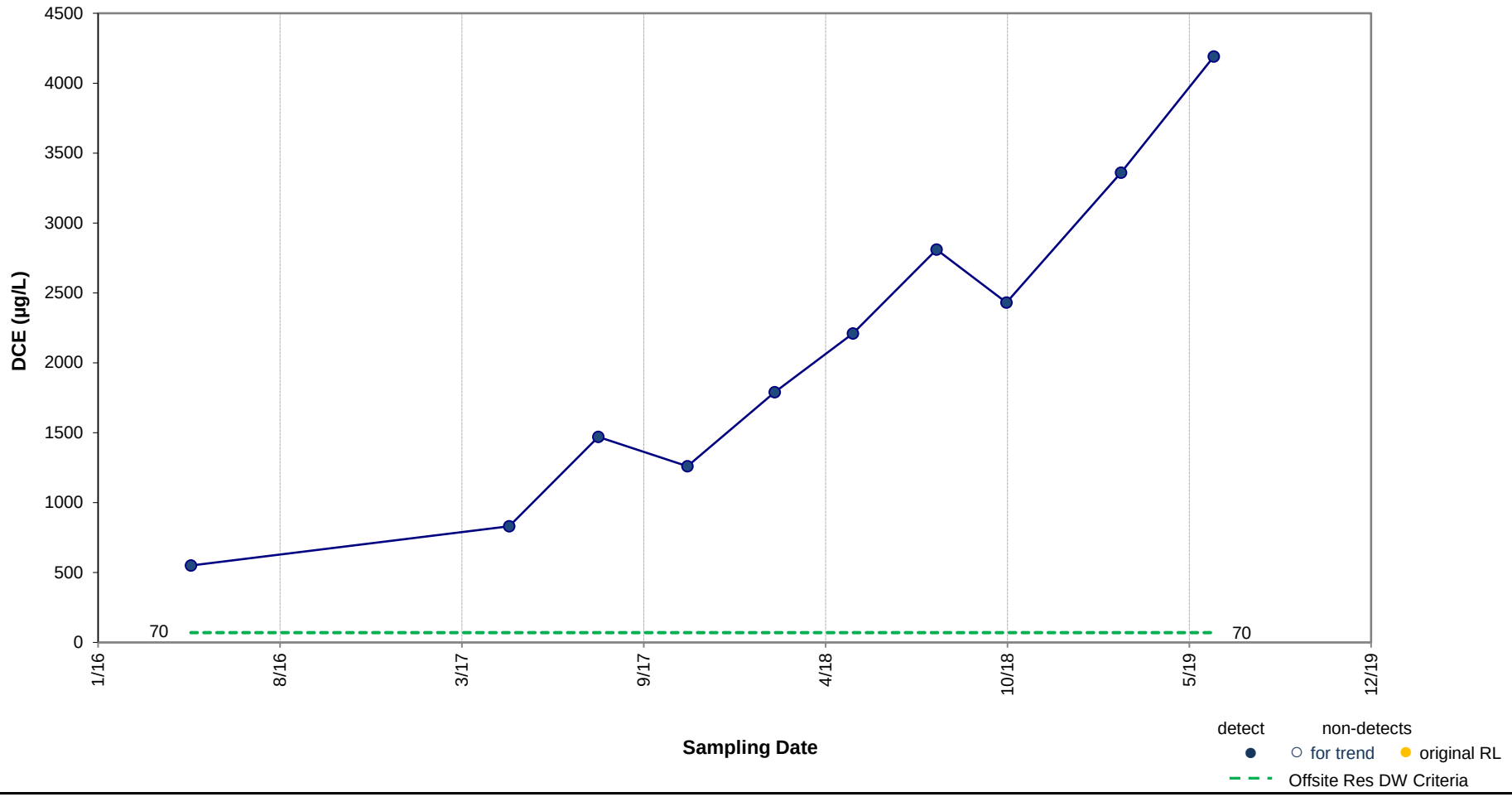
ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

MANN-KENDALL STATISTICAL VINYL CHLORIDE TREND RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

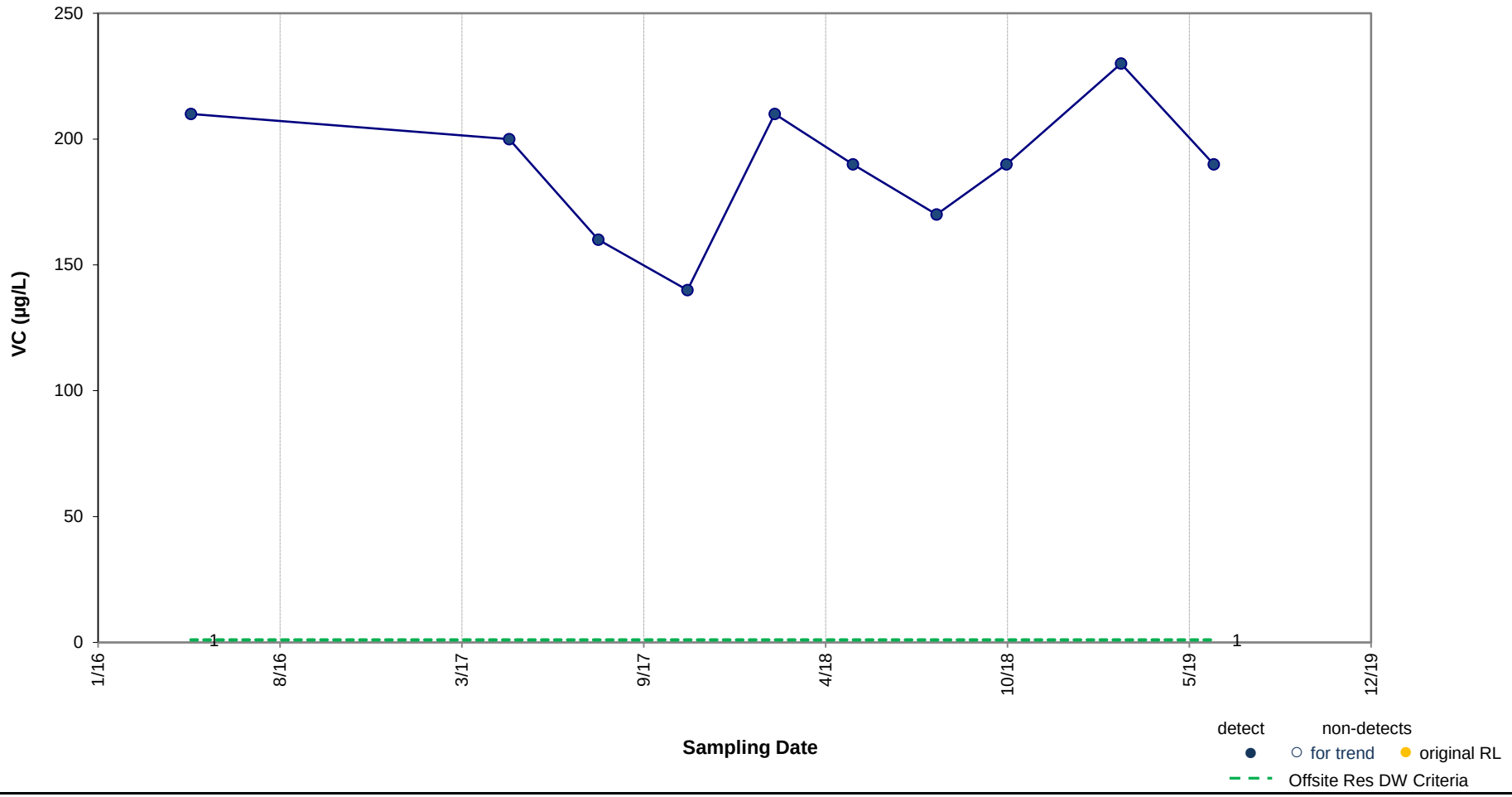
p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – DCE in MW-2

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 4



Results of Mann-Kendall Test for Trend: **No Significant Trend**

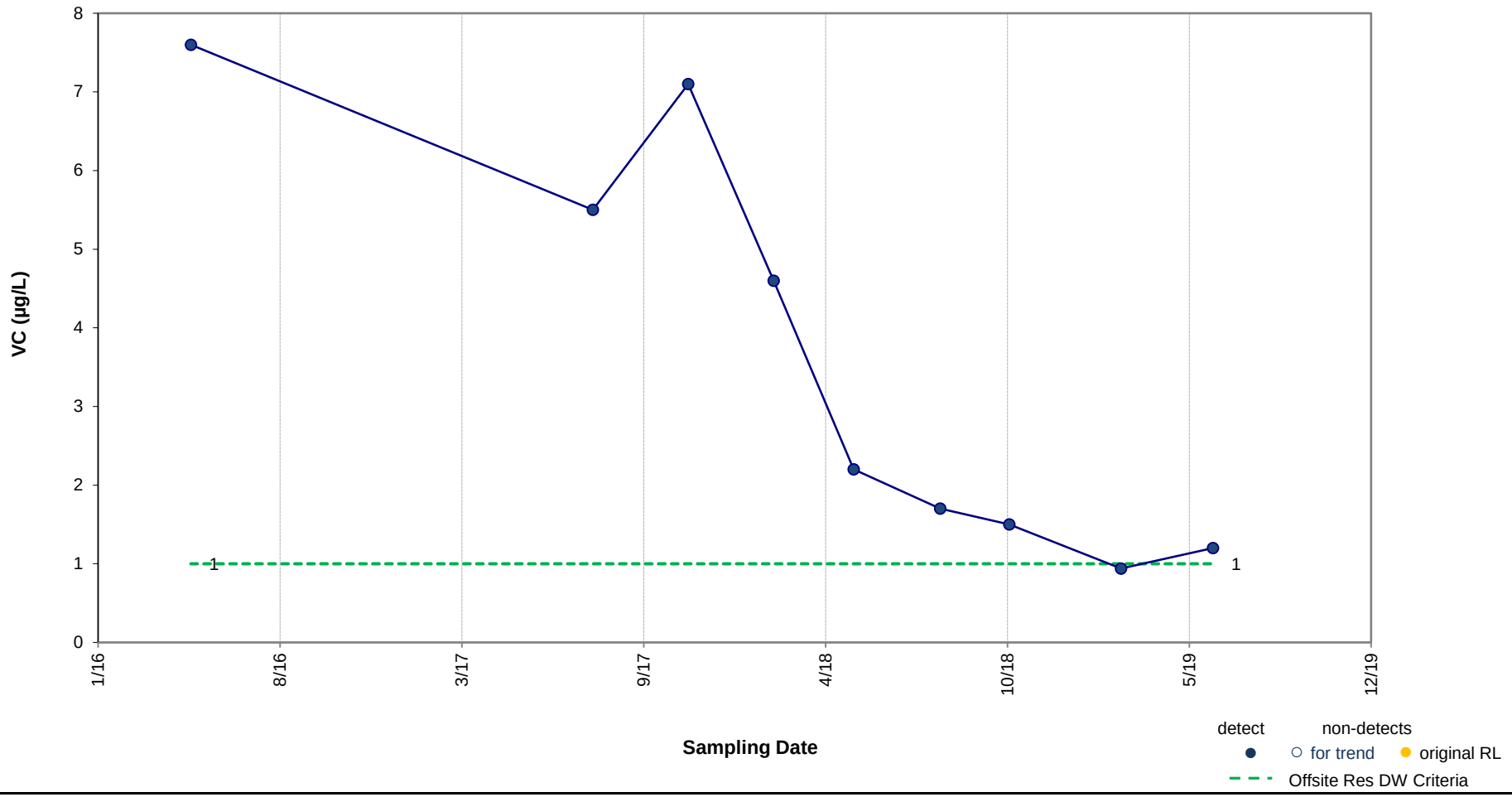
p value = 0.500 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-2

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 5



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

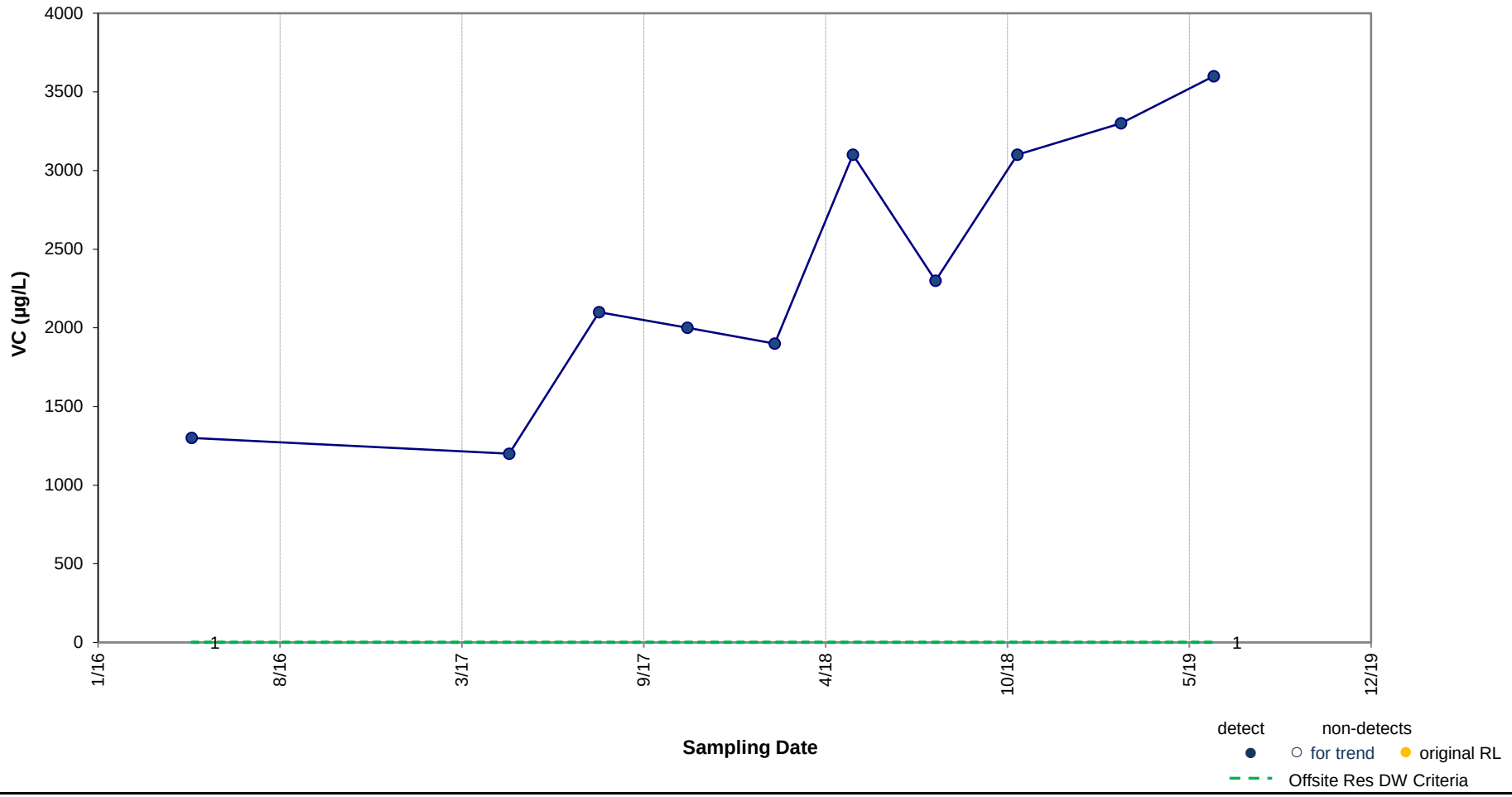
p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-9

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 6



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

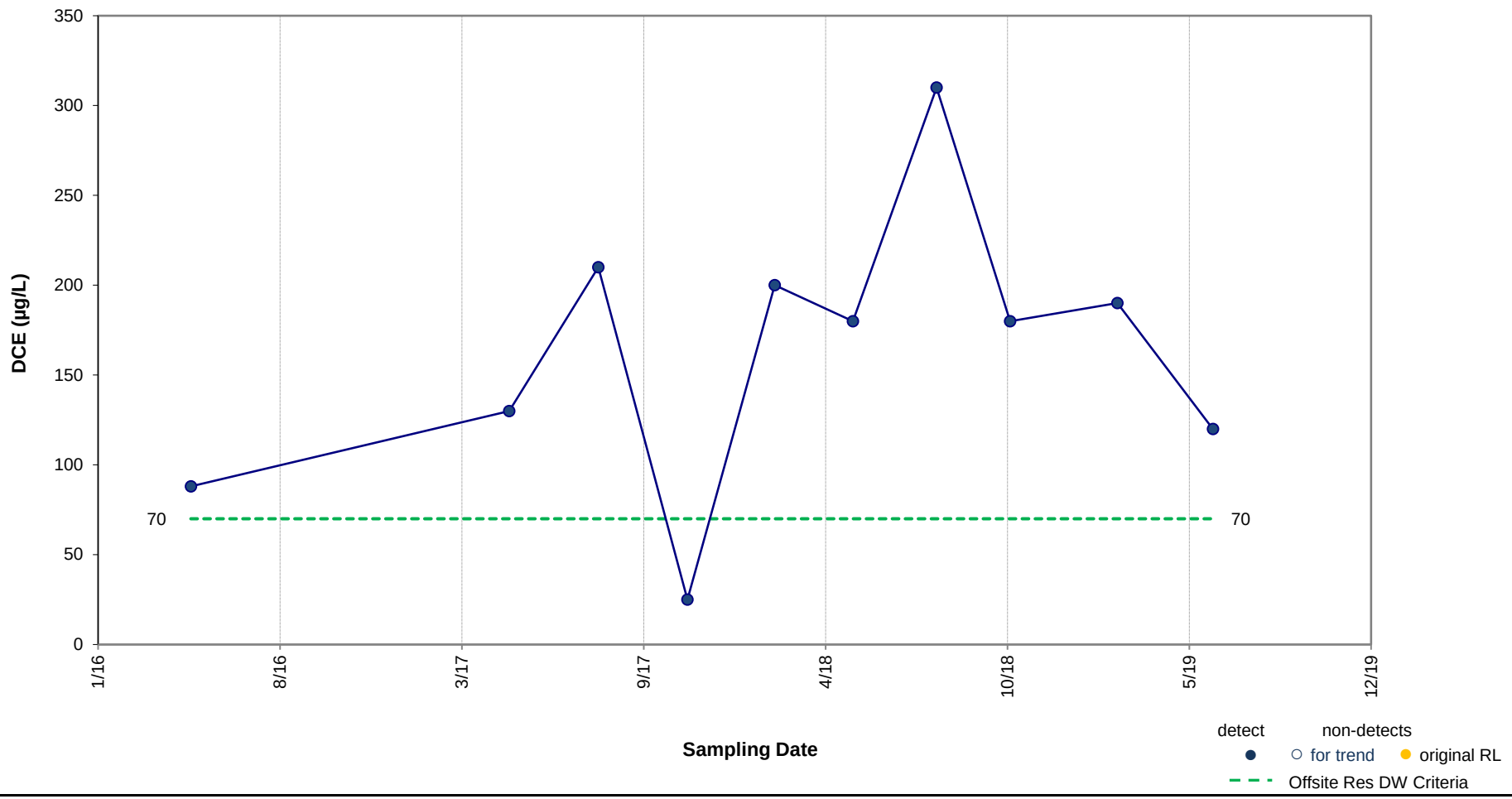
p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-10

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 7



Results of Mann-Kendall Test for Trend: **No Significant Trend**

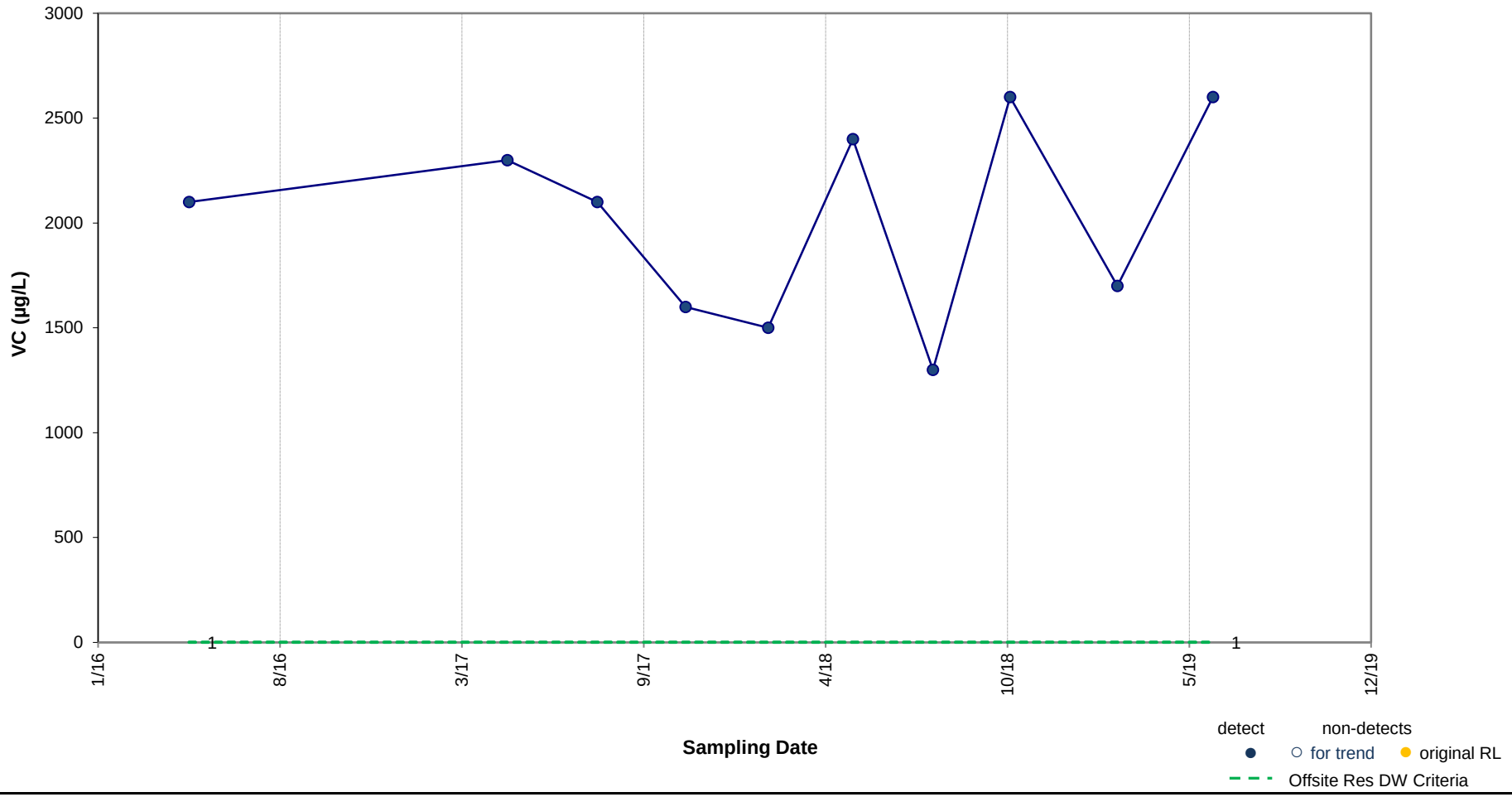
p value = 0.332 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – DCE in MW-22

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 8



Results of Mann-Kendall Test for Trend: **No Significant Trend**

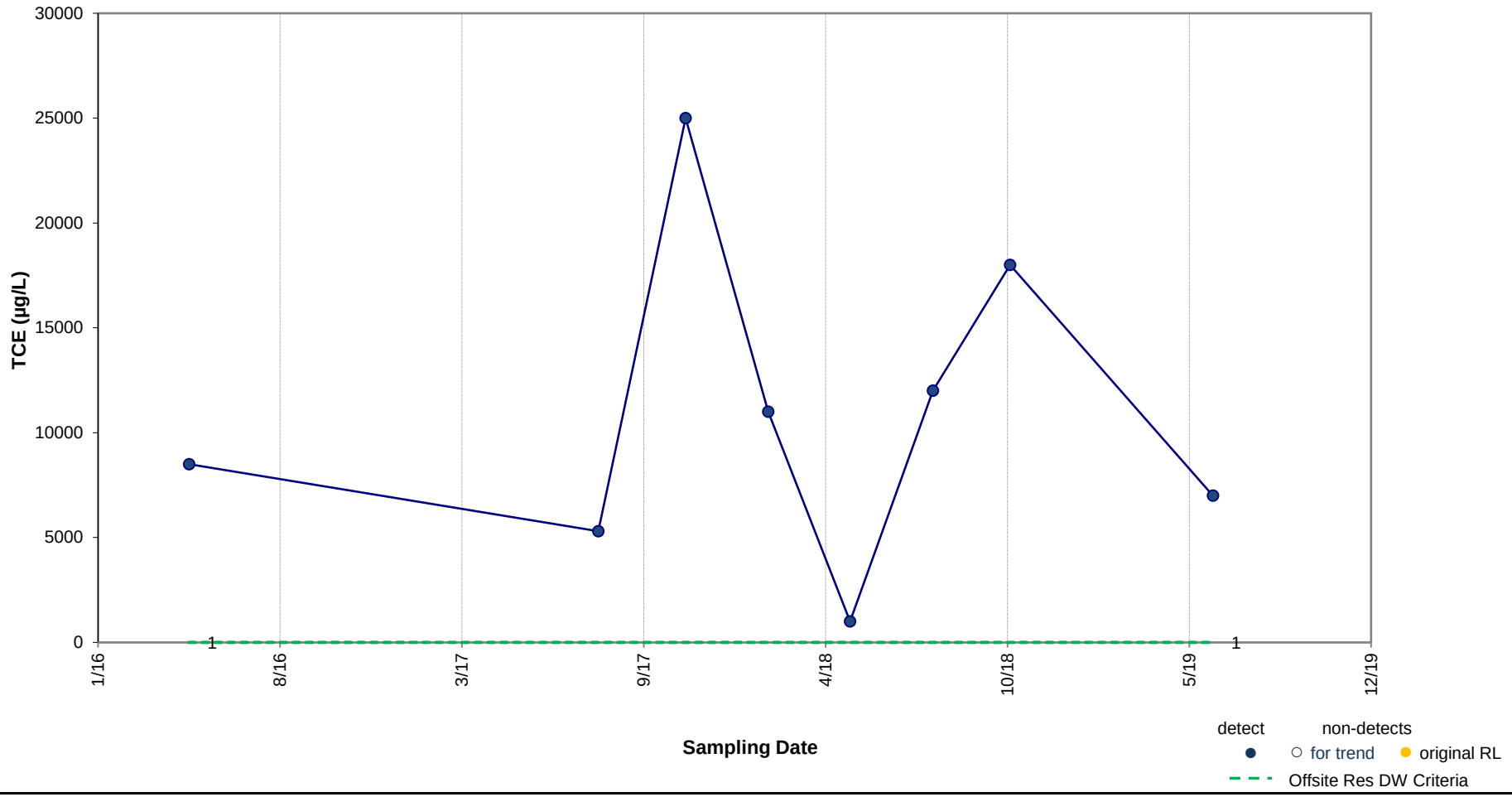
p value = 0.364 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-22

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 9



Results of Mann-Kendall Test for Trend: **No Significant Trend**

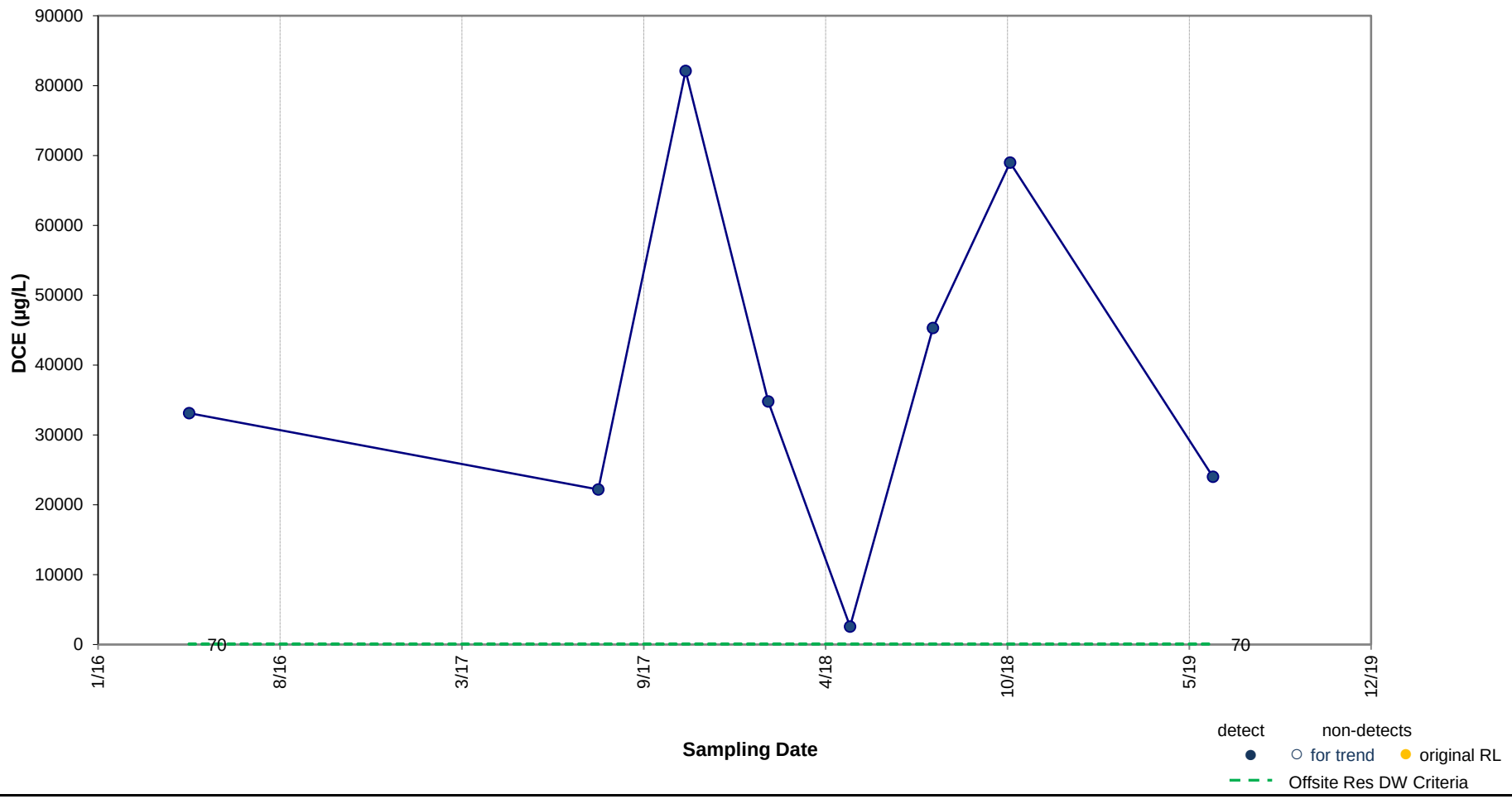
p value = 0.452 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – TCE in MW-23

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 10



Results of Mann-Kendall Test for Trend: **No Significant Trend**

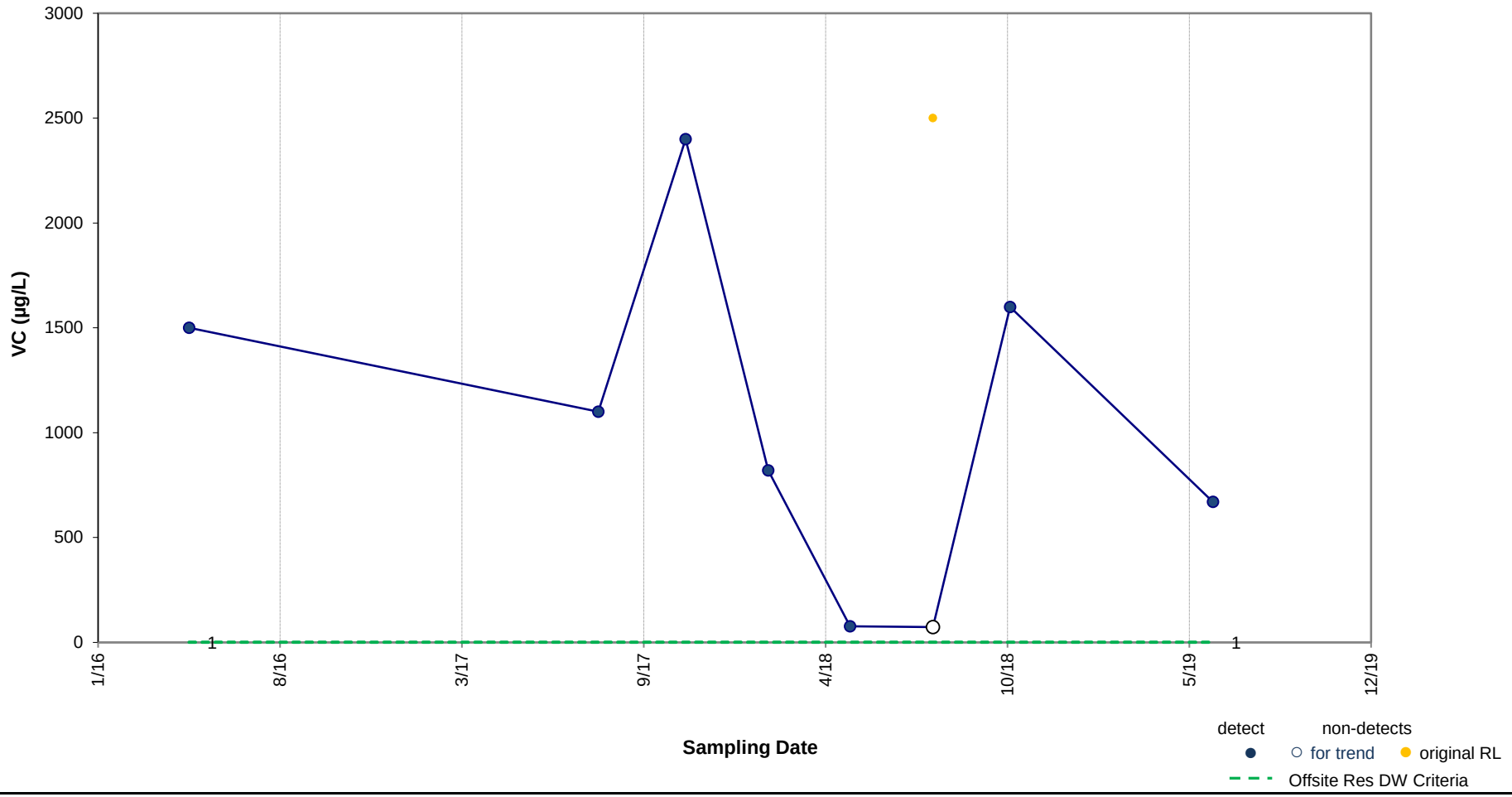
p value = 0.452 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – DCE in MW-23

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 11



Results of Mann-Kendall Test for Trend: **No Significant Trend**

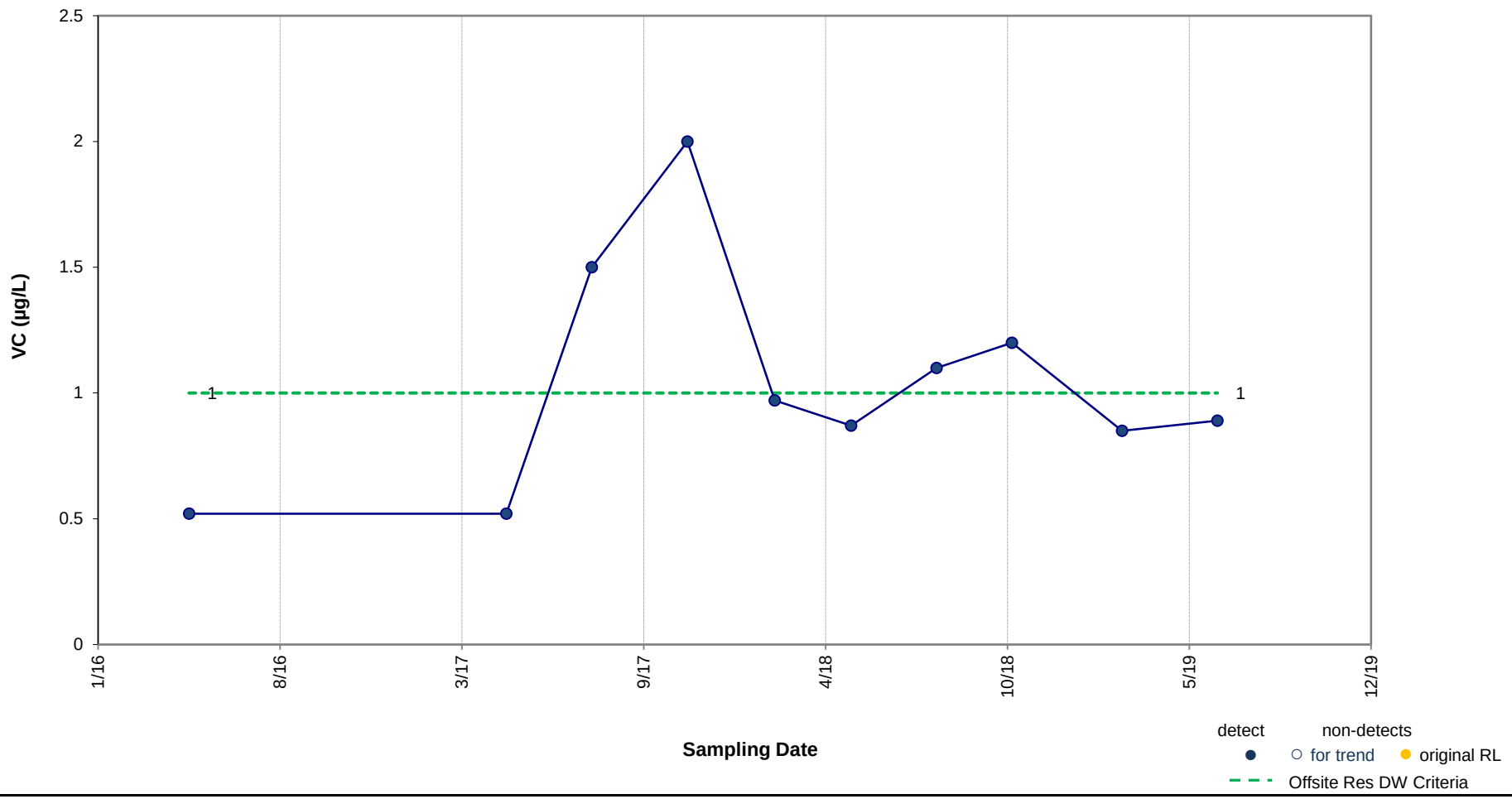
p value = 0.138 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-23

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 12



Results of Mann-Kendall Test for Trend: **No Significant Trend**

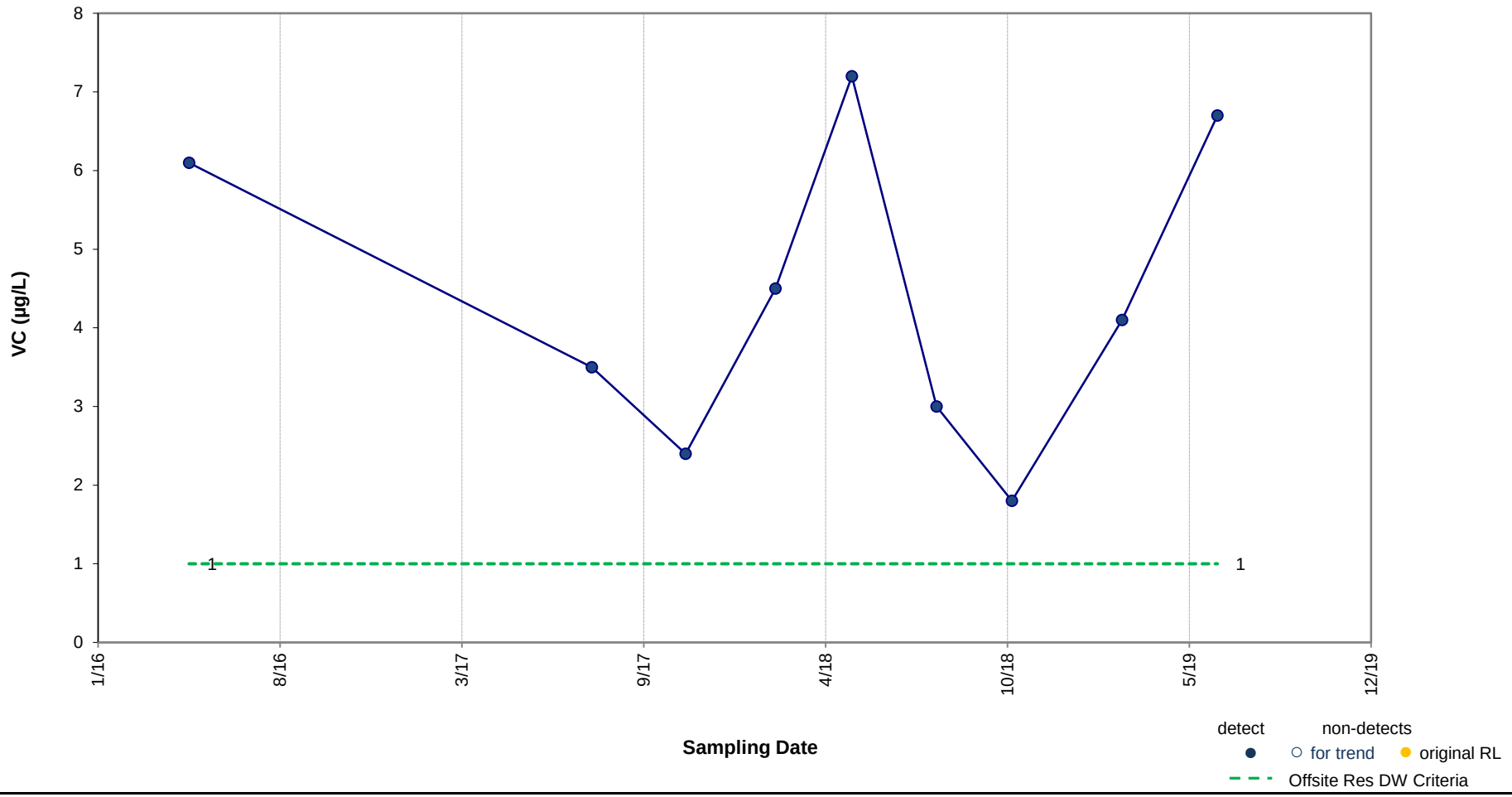
p value = 0.398 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-34

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 13



Results of Mann-Kendall Test for Trend: **No Significant Trend**

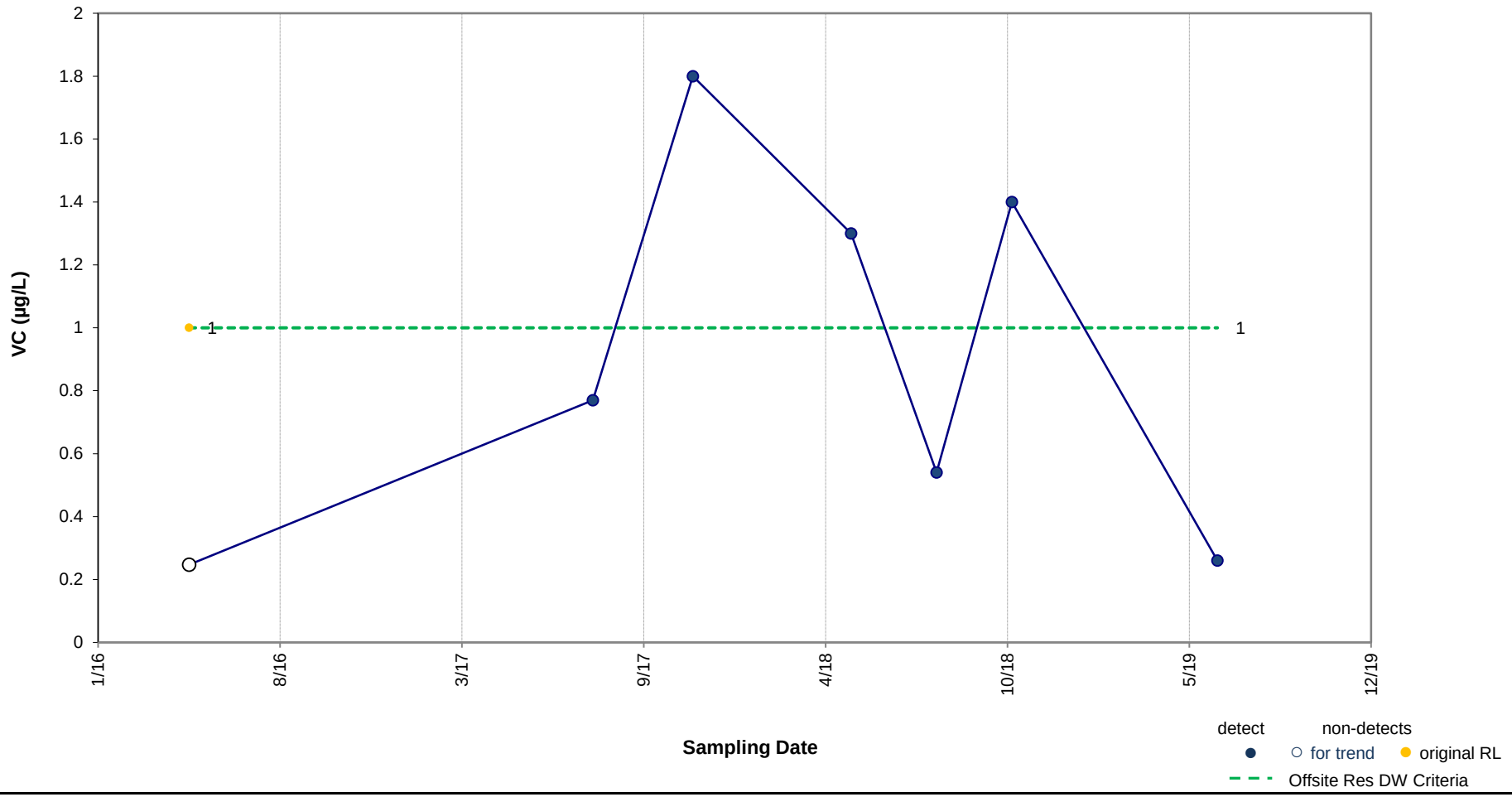
p value = 0.540 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-35

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 14



Results of Mann-Kendall Test for Trend: **No Significant Trend**

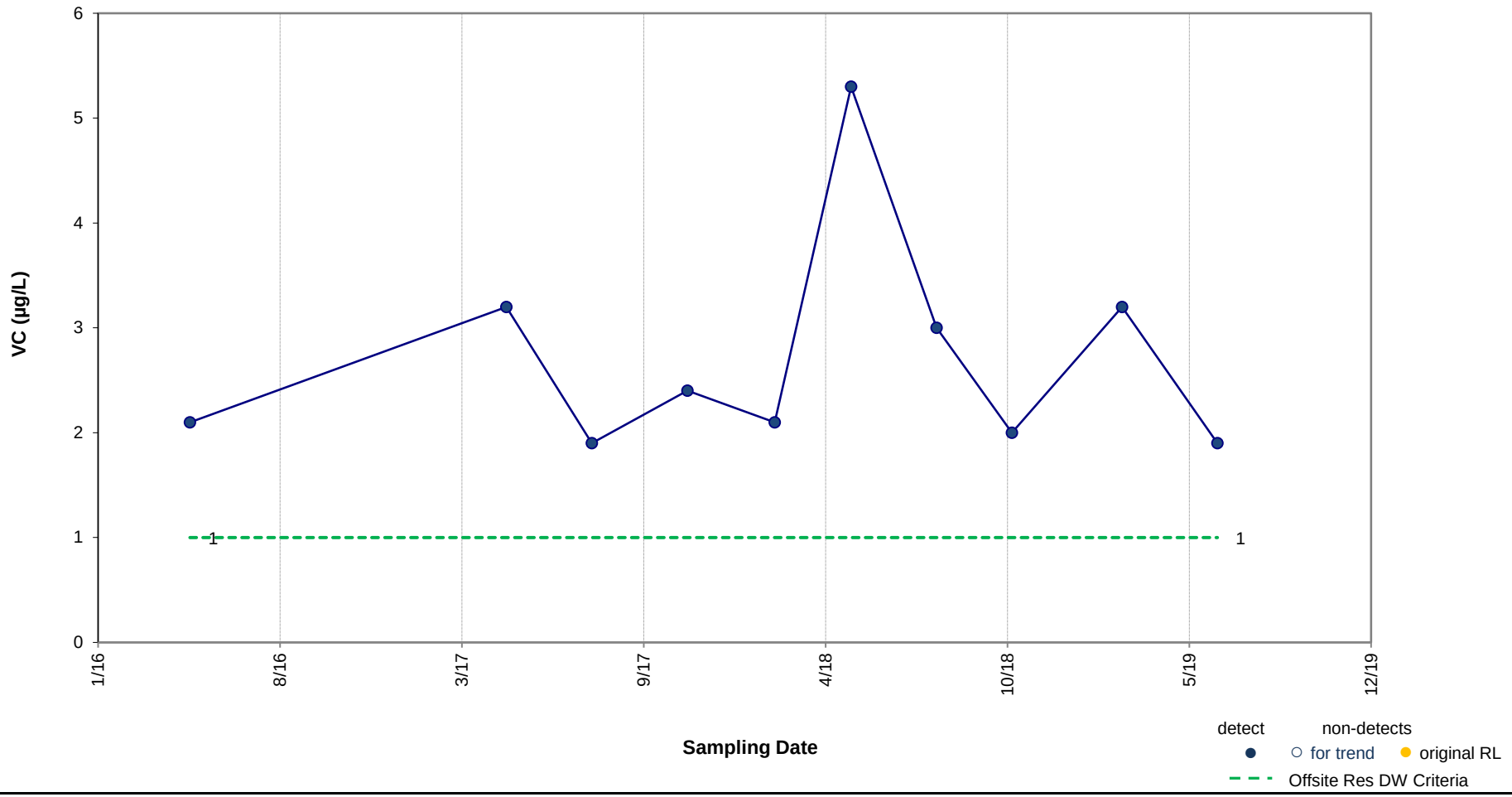
p value = 0.500 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-40

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 15



Results of Mann-Kendall Test for Trend: **No Significant Trend**

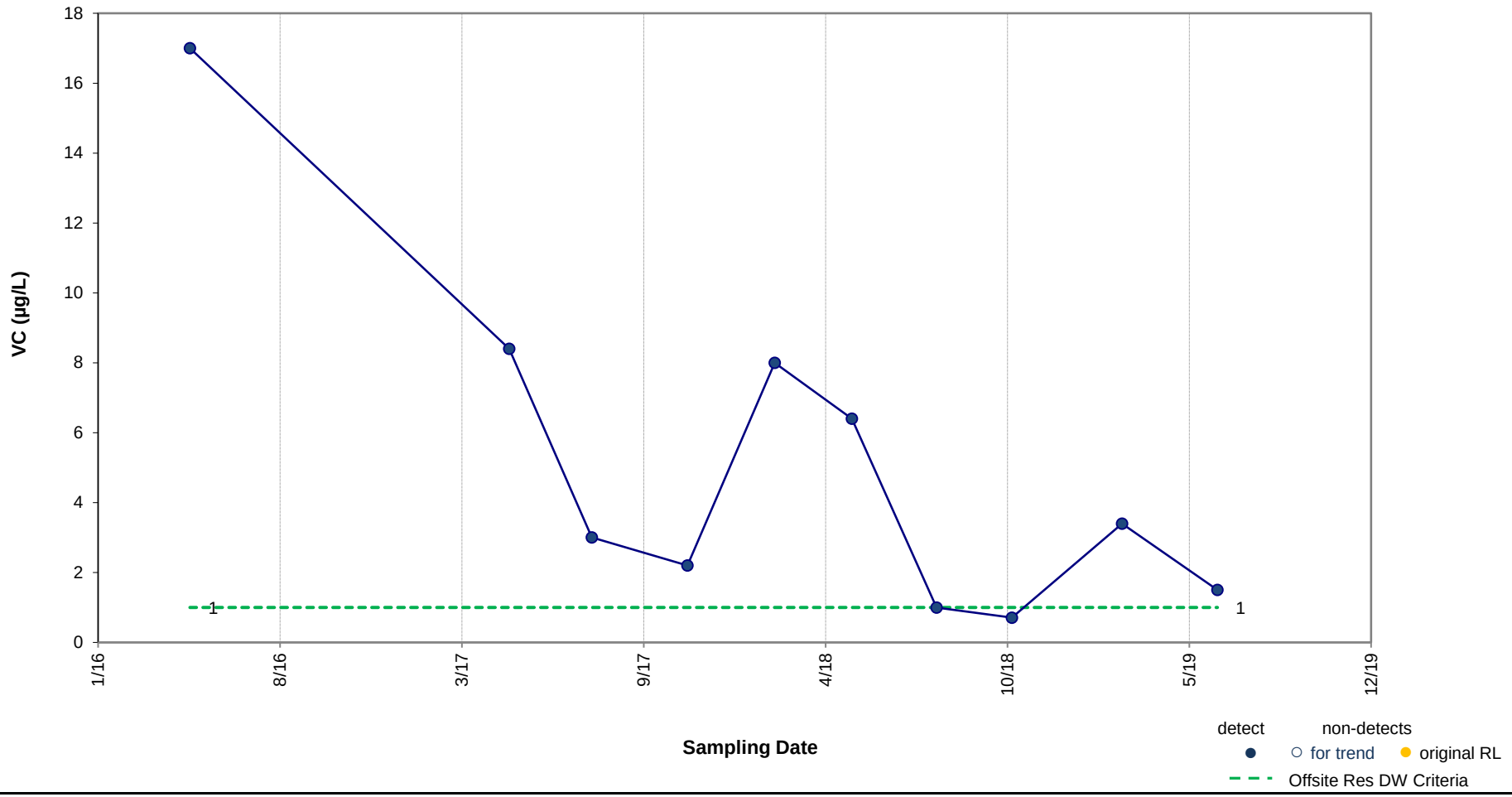
p value = 0.466 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-41

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 16



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

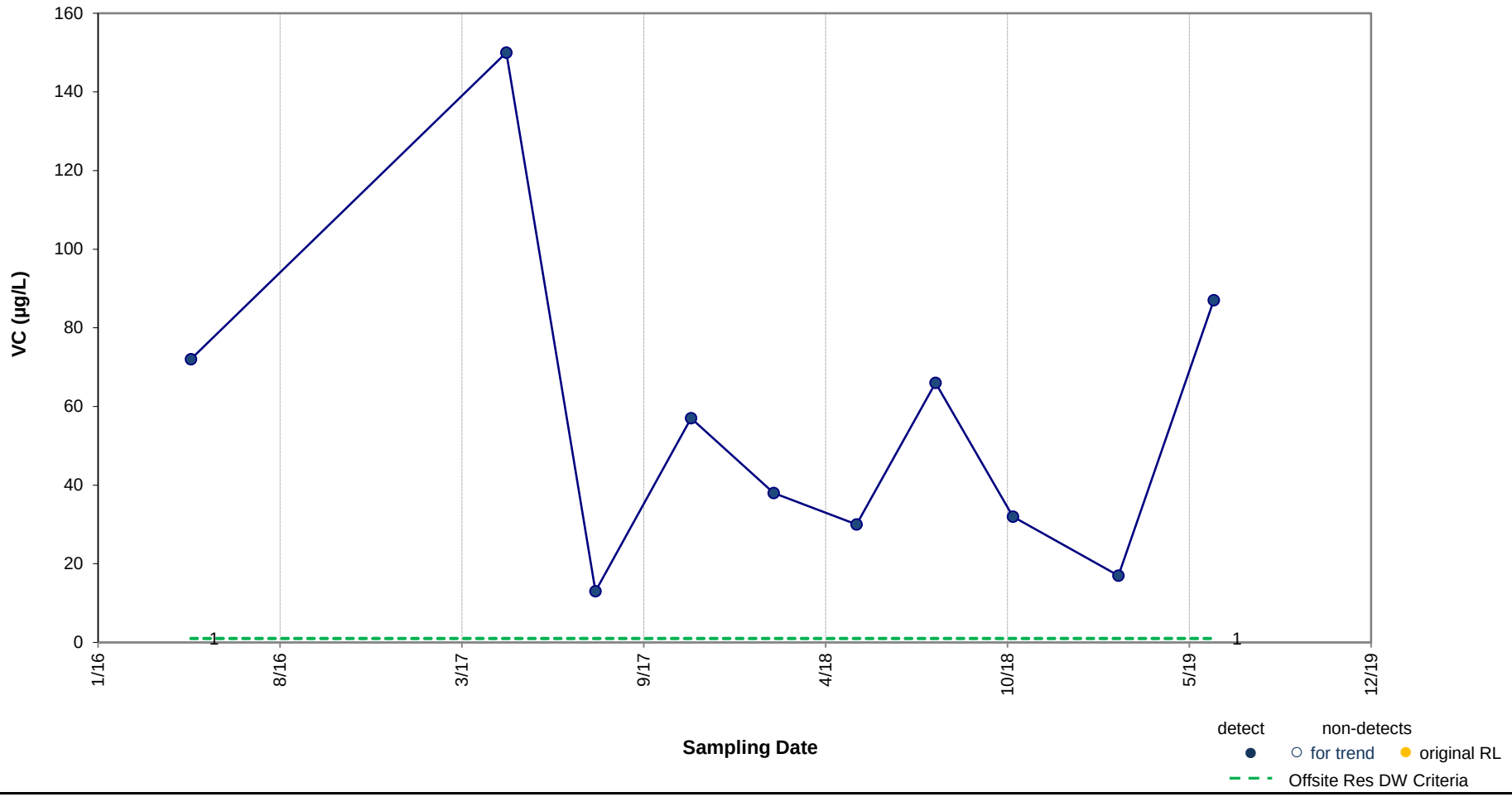
p value = 0.014 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-43

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 17



Results of Mann-Kendall Test for Trend: **No Significant Trend**

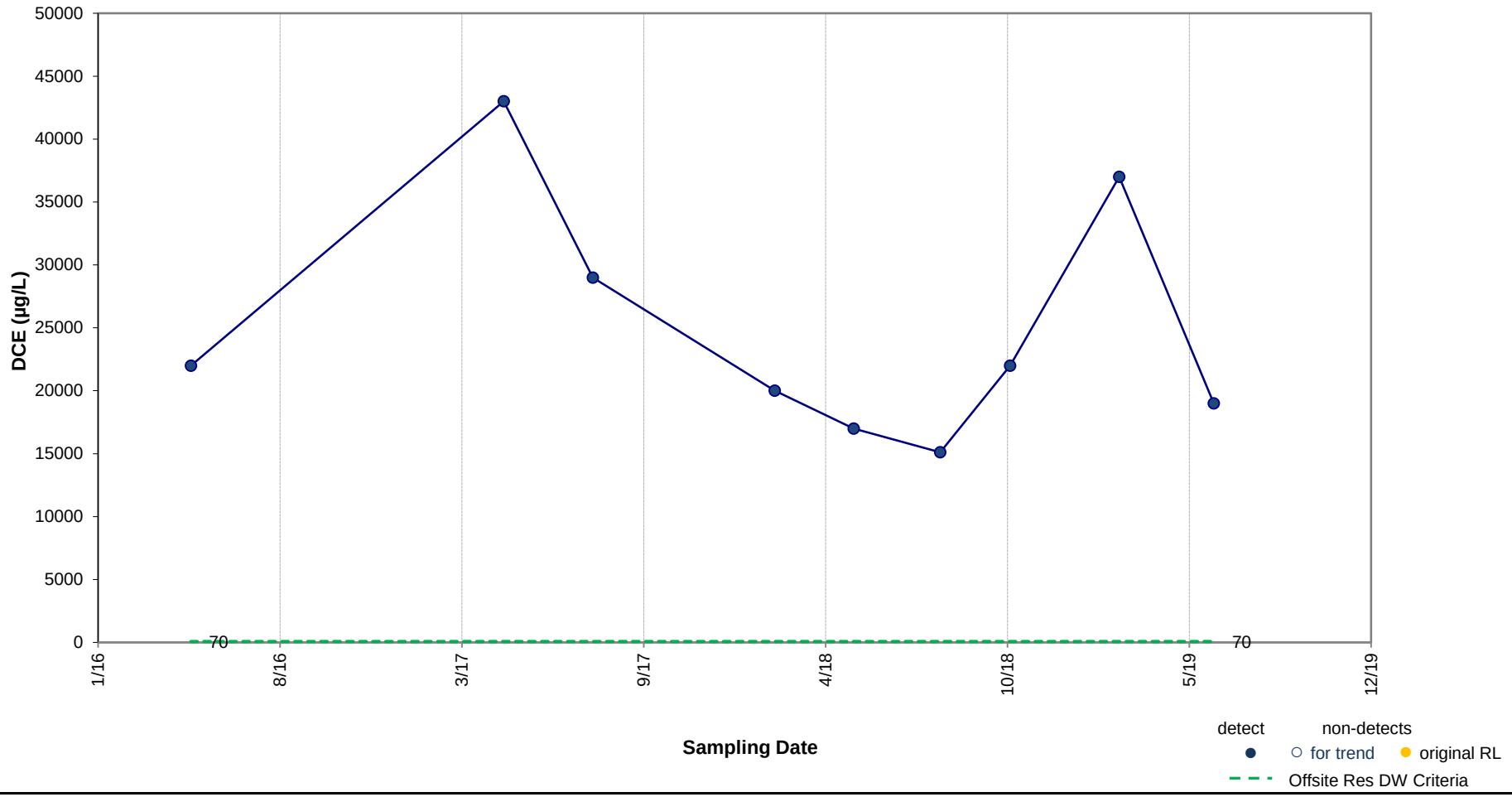
p value = 0.300 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-46

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 18



Results of Mann-Kendall Test for Trend: **No Significant Trend**

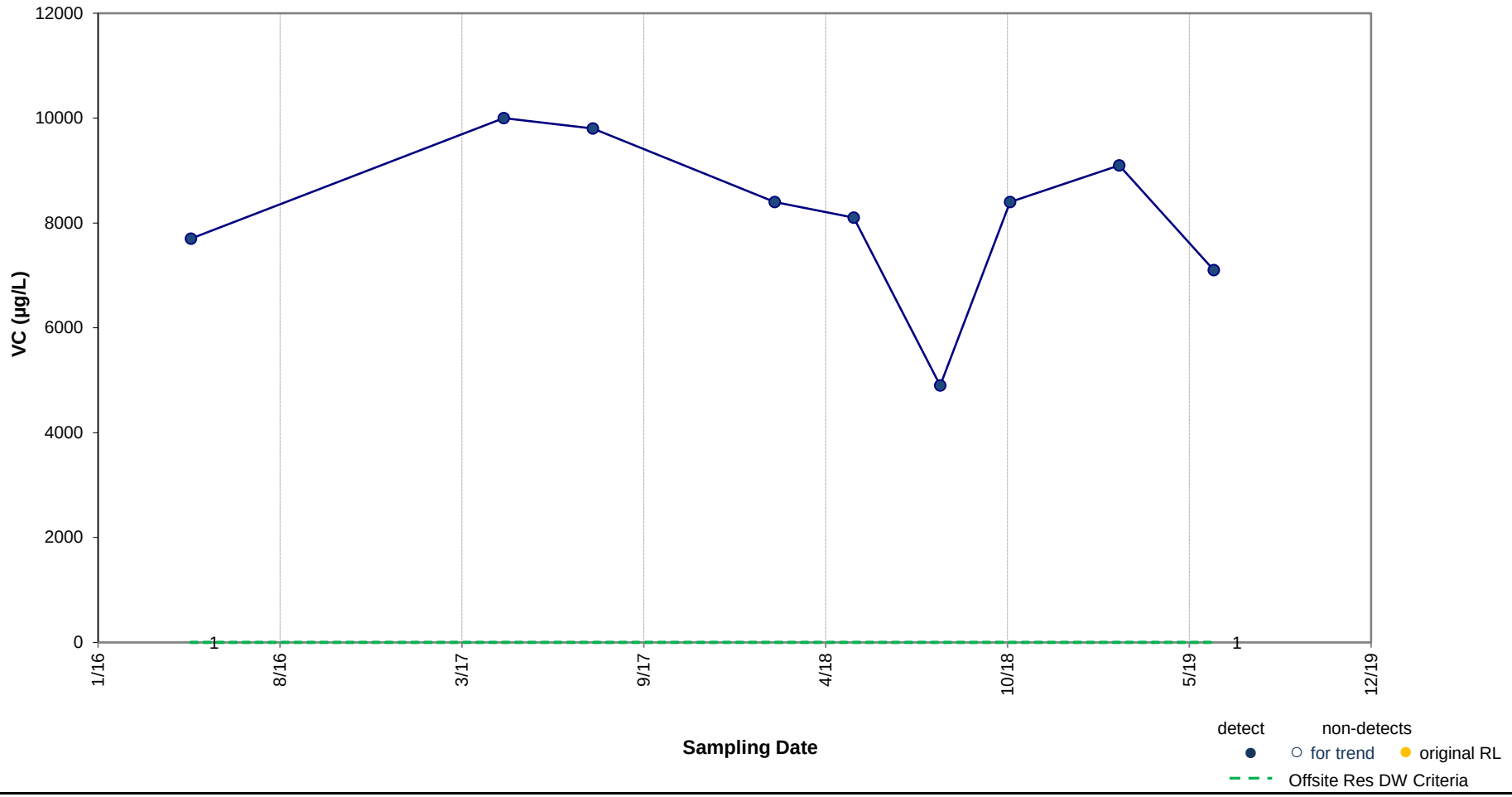
p value = 0.209 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – DCE in MW-49

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 19



Results of Mann-Kendall Test for Trend: **No Significant Trend**

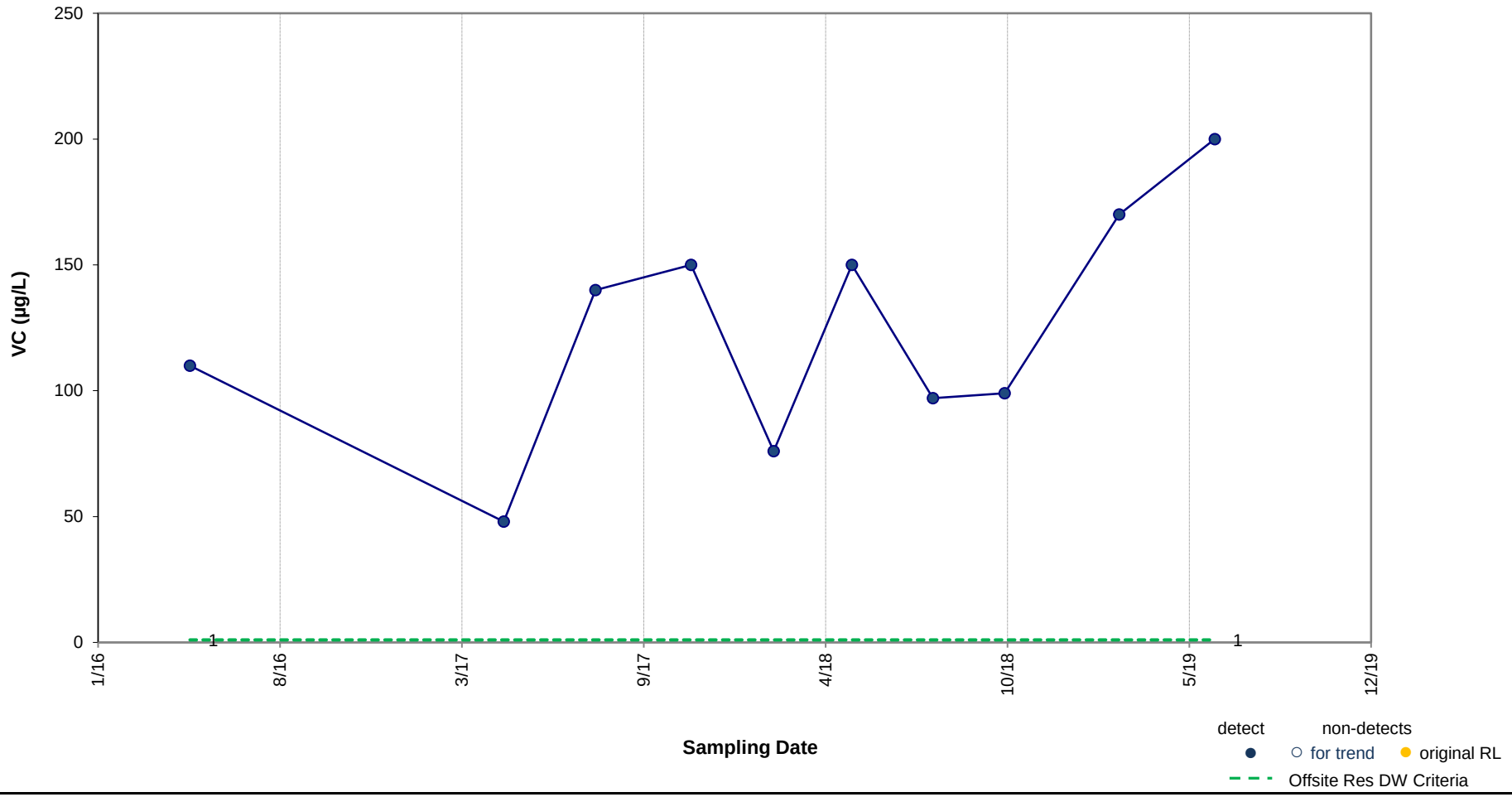
p value = 0.209 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-49

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 20



Results of Mann-Kendall Test for Trend: **INCREASING TREND**

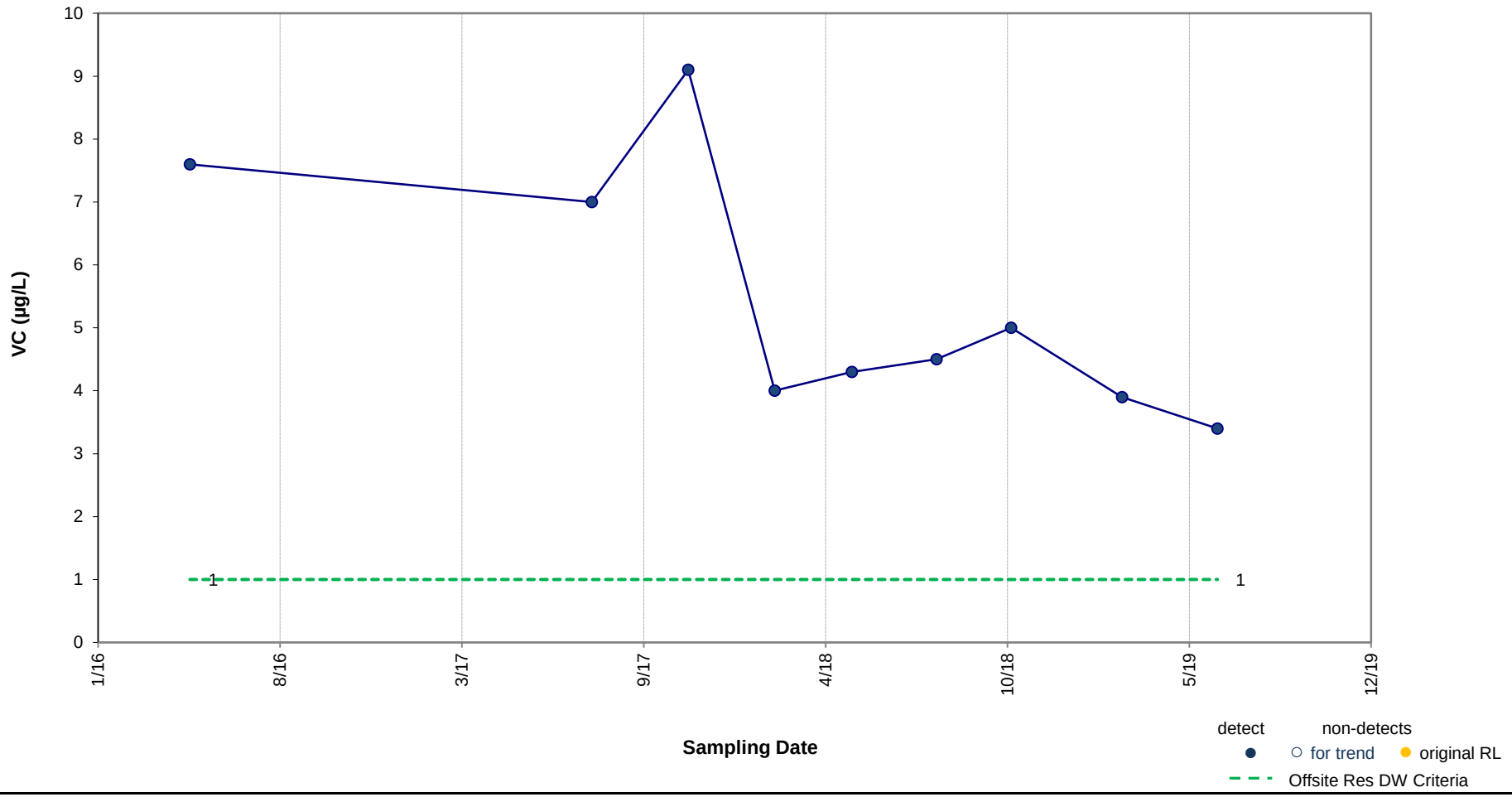
p value = 0.045 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-50

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 21



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

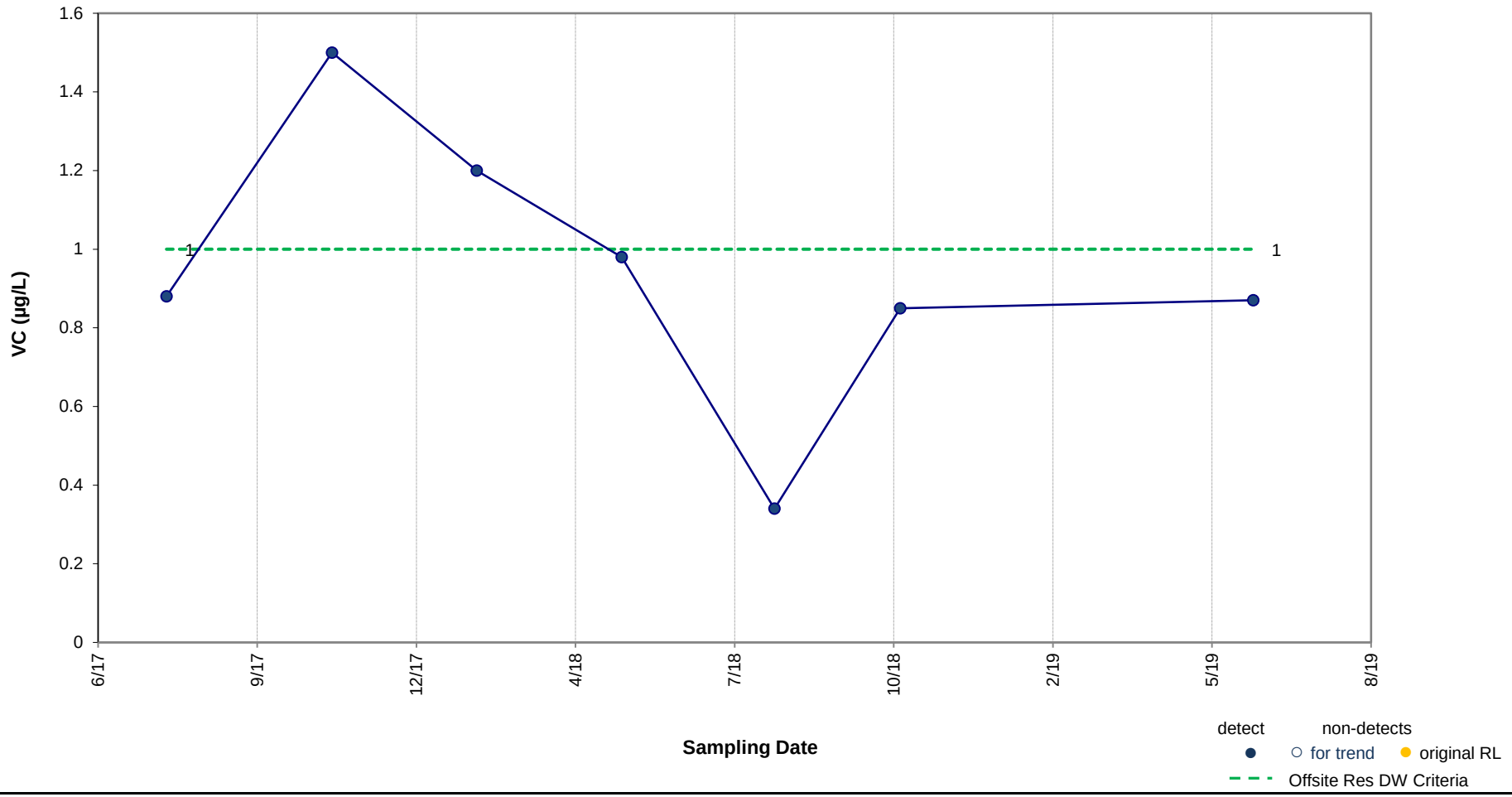
p value = 0.022 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-52

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 22



Results of Mann-Kendall Test for Trend: **No Significant Trend**

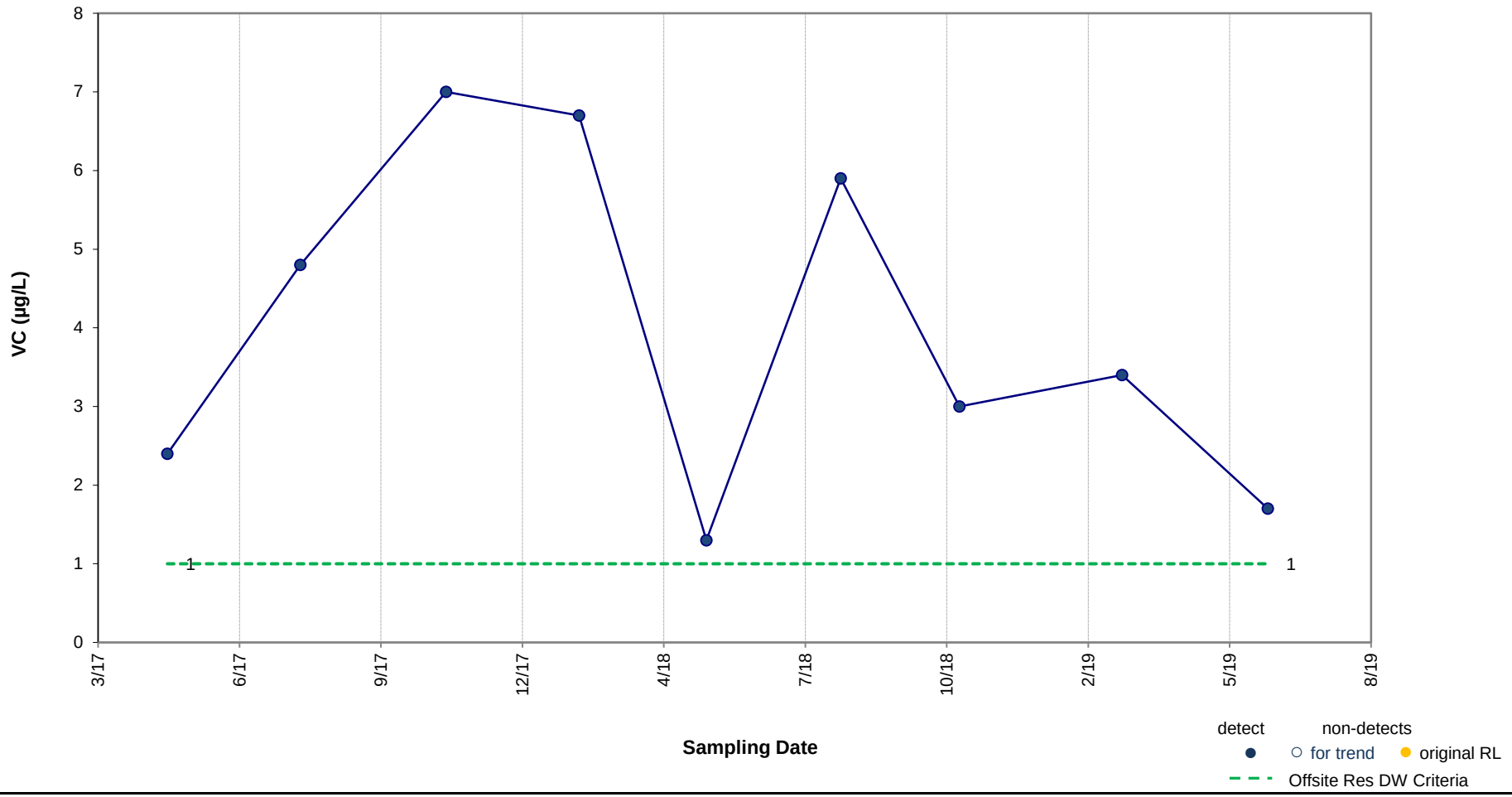
p value = 0.119 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-54

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 23



Results of Mann-Kendall Test for Trend: **No Significant Trend**

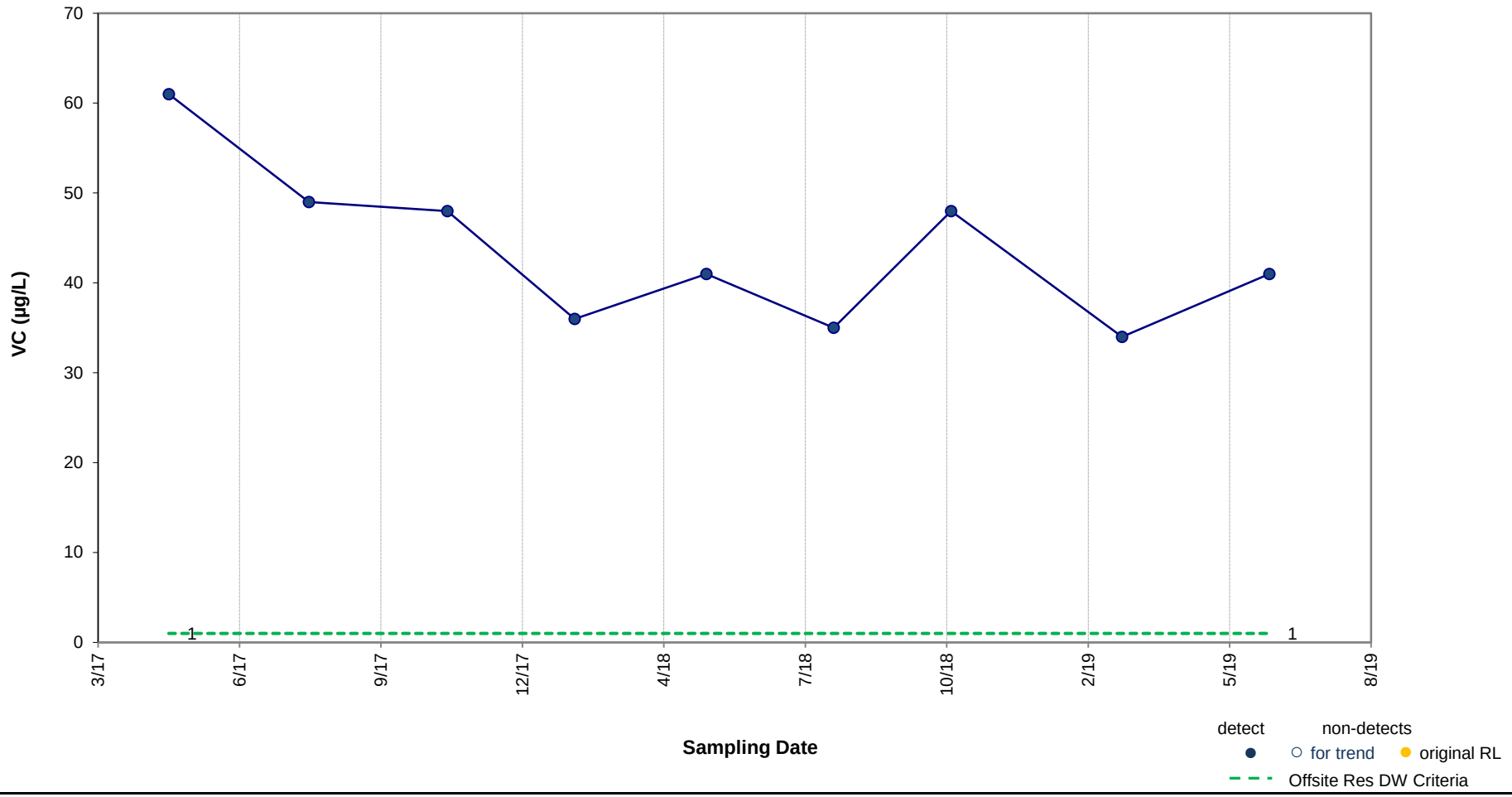
p value = 0.238 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-64

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 24



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

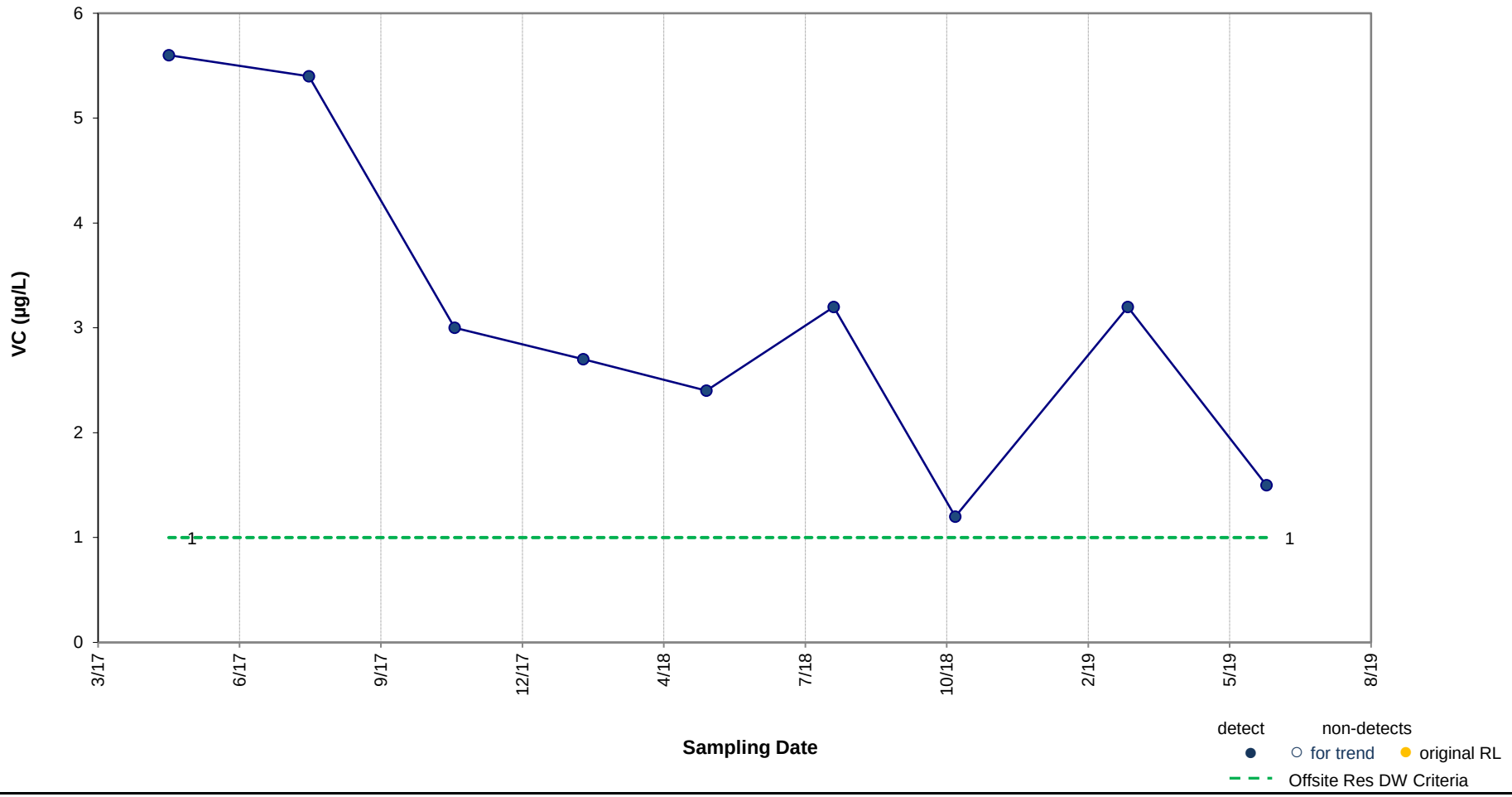
p value = 0.022 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-65

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 25



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

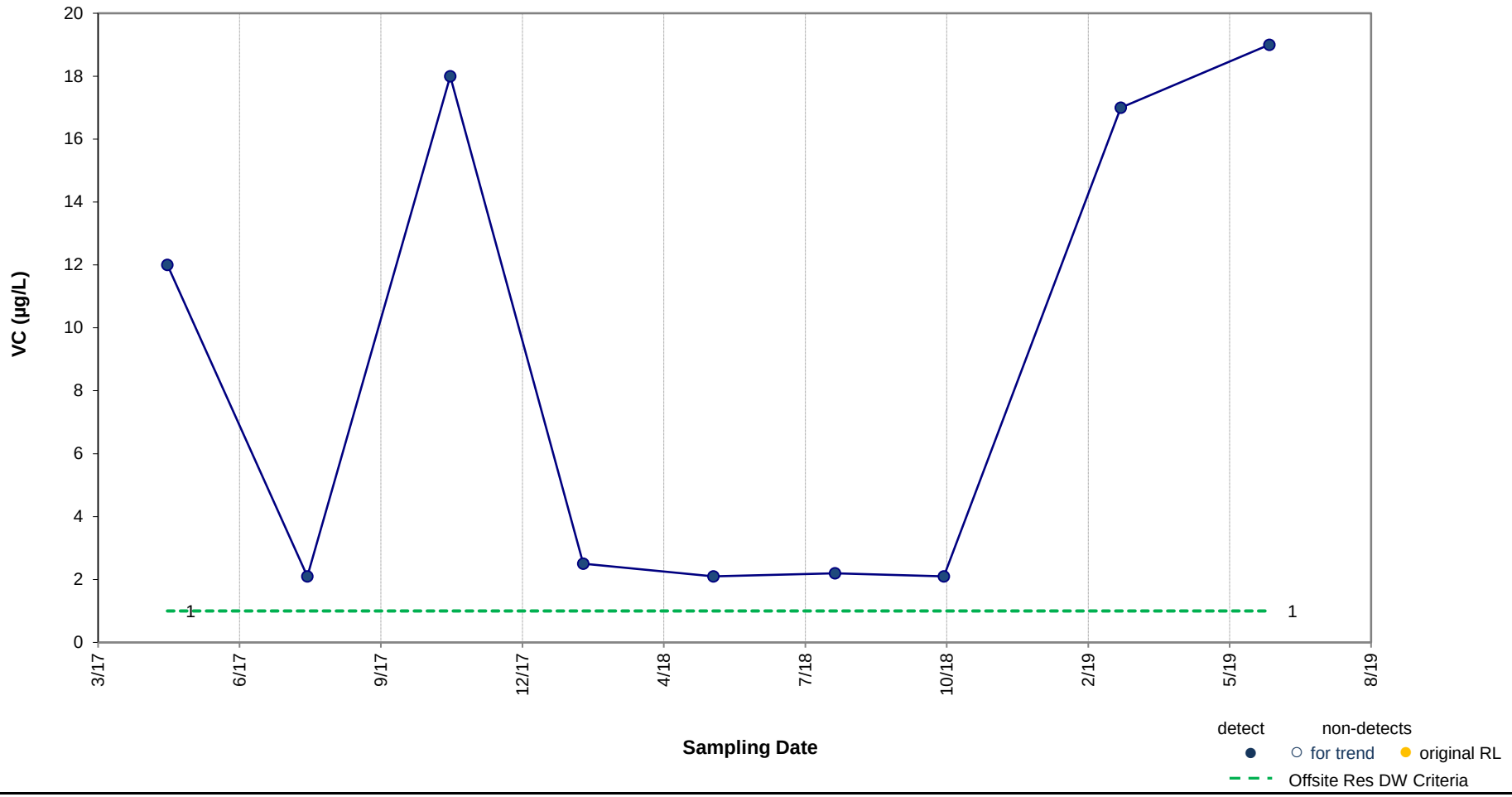
p value = 0.030 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-66

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 26



Results of Mann-Kendall Test for Trend: **No Significant Trend**

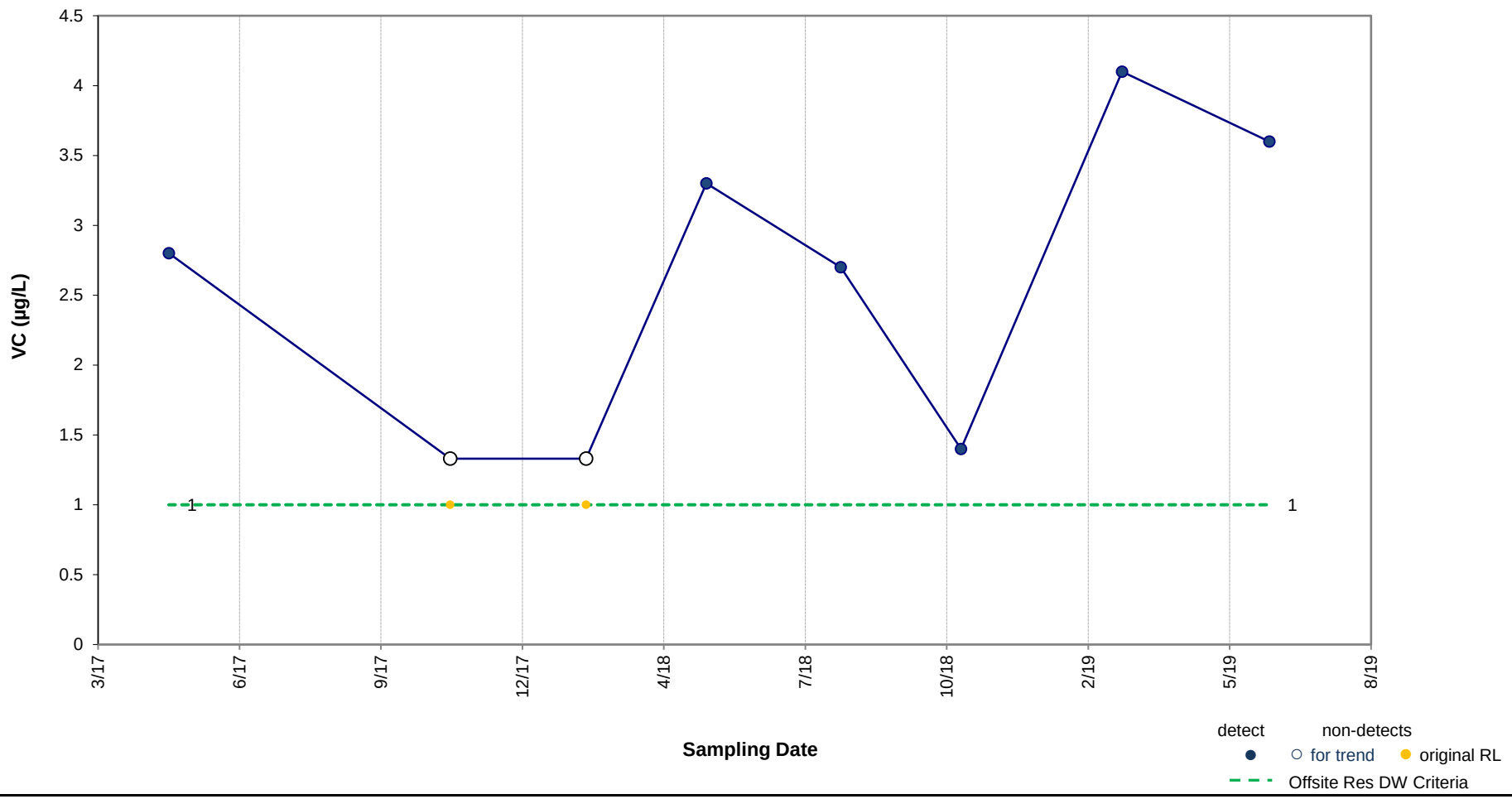
p value = 0.344 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-68

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 27



Results of Mann-Kendall Test for Trend: **No Significant Trend**

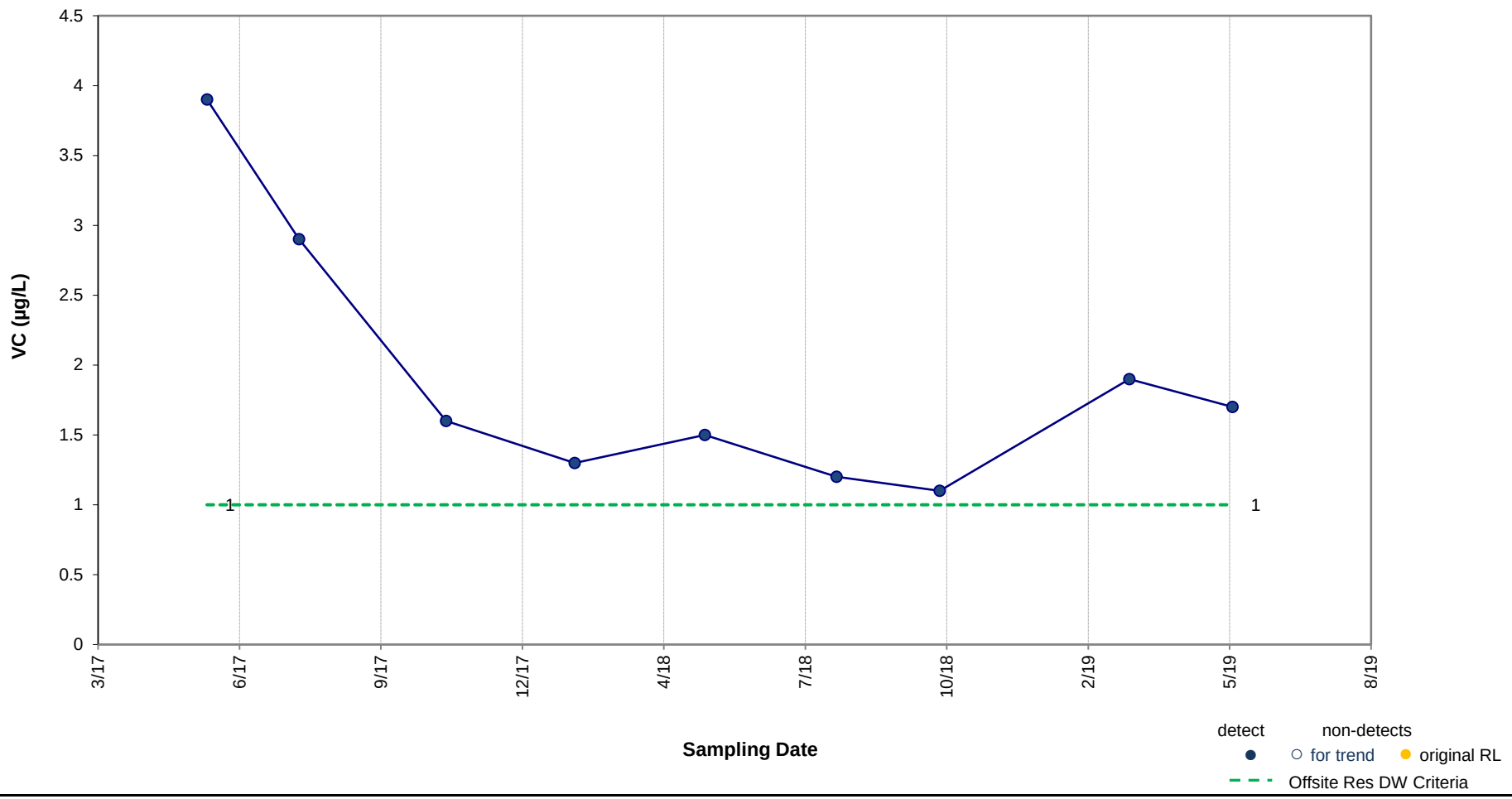
p value = 0.114 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-69

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 28



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

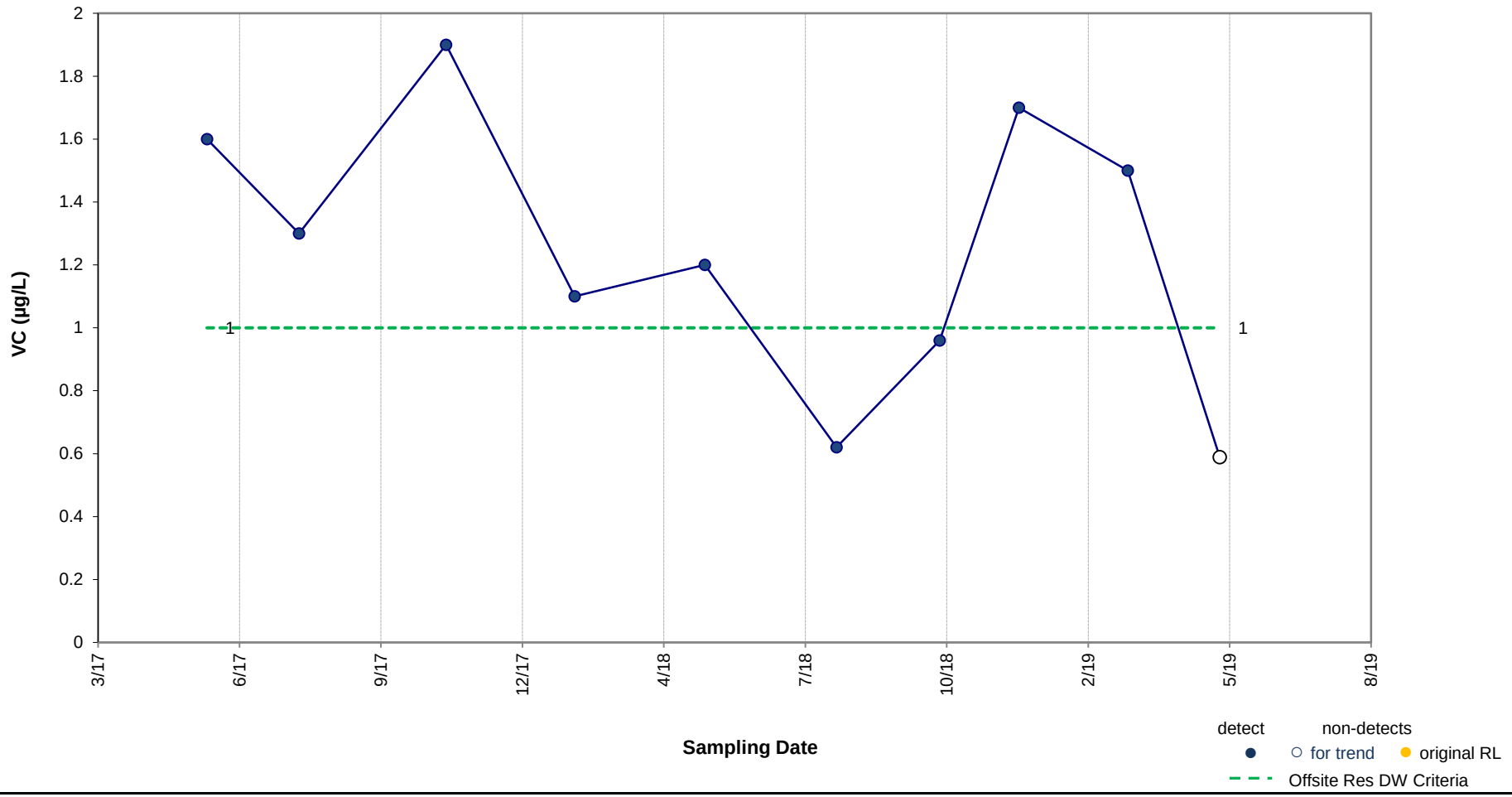
p value = 0.090 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-72

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 29



Results of Mann-Kendall Test for Trend: **No Significant Trend**

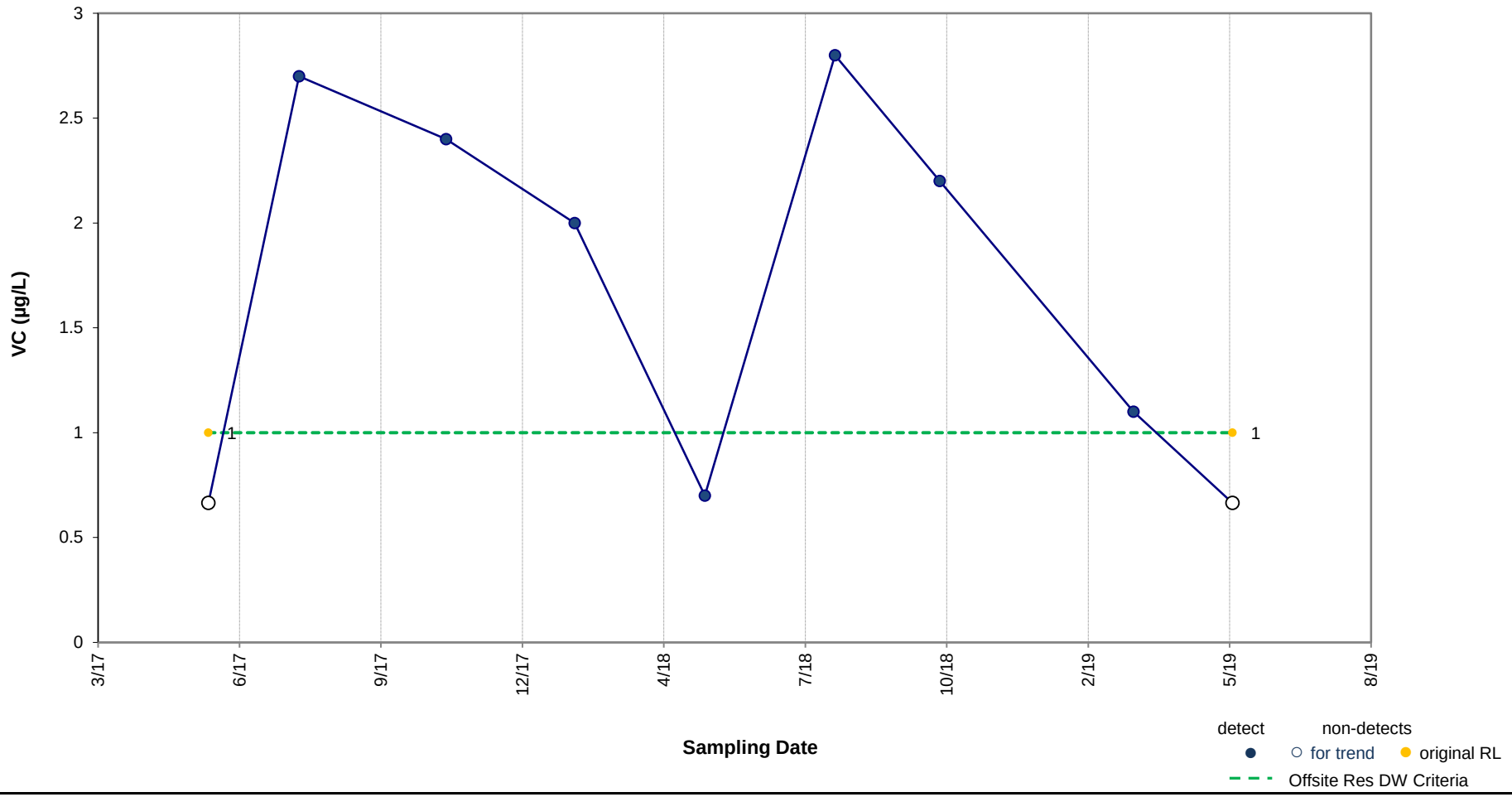
p value = 0.108 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-73S

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 30



Results of Mann-Kendall Test for Trend: **No Significant Trend**

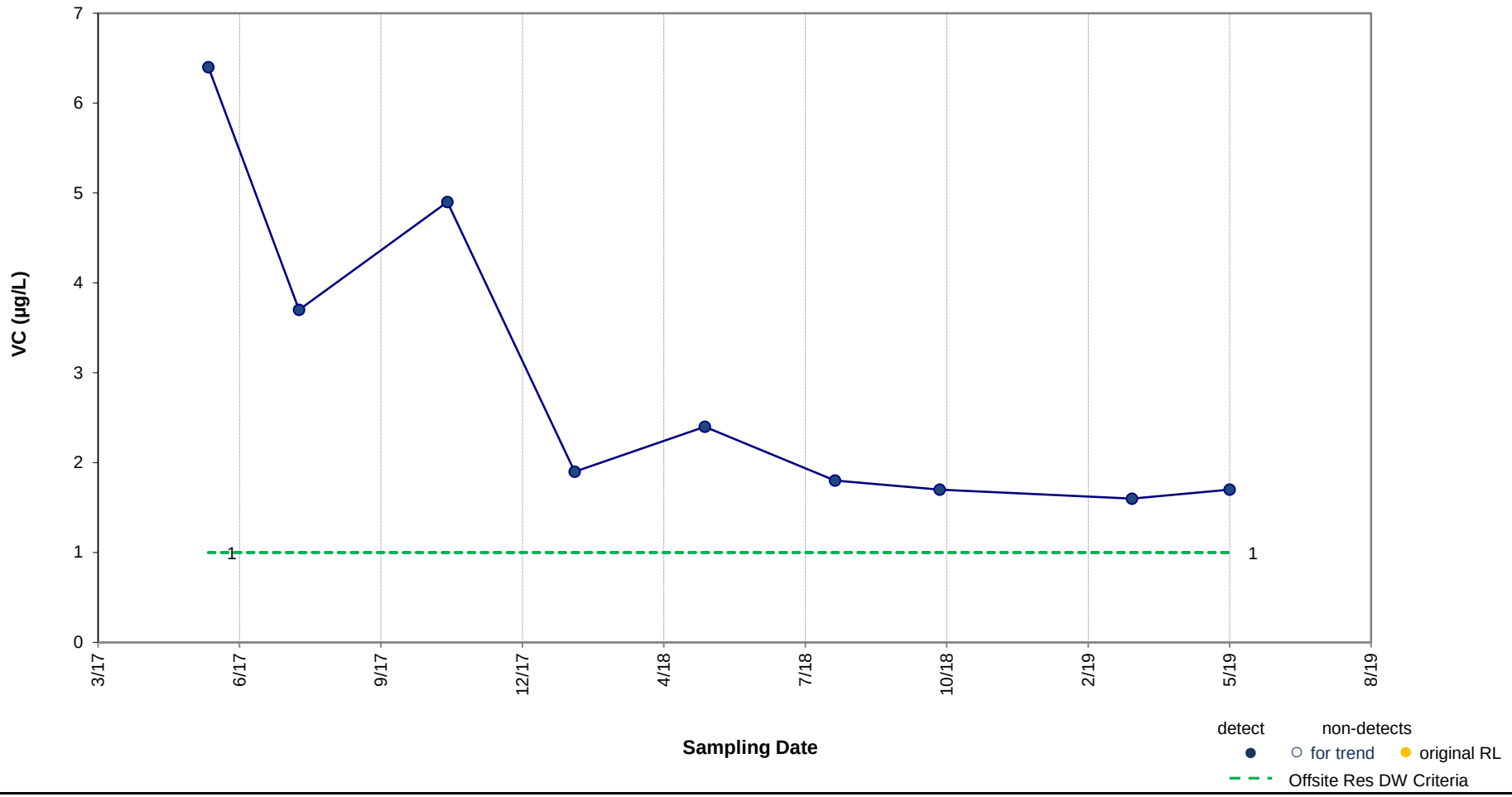
p value = 0.272 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-74

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 31



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

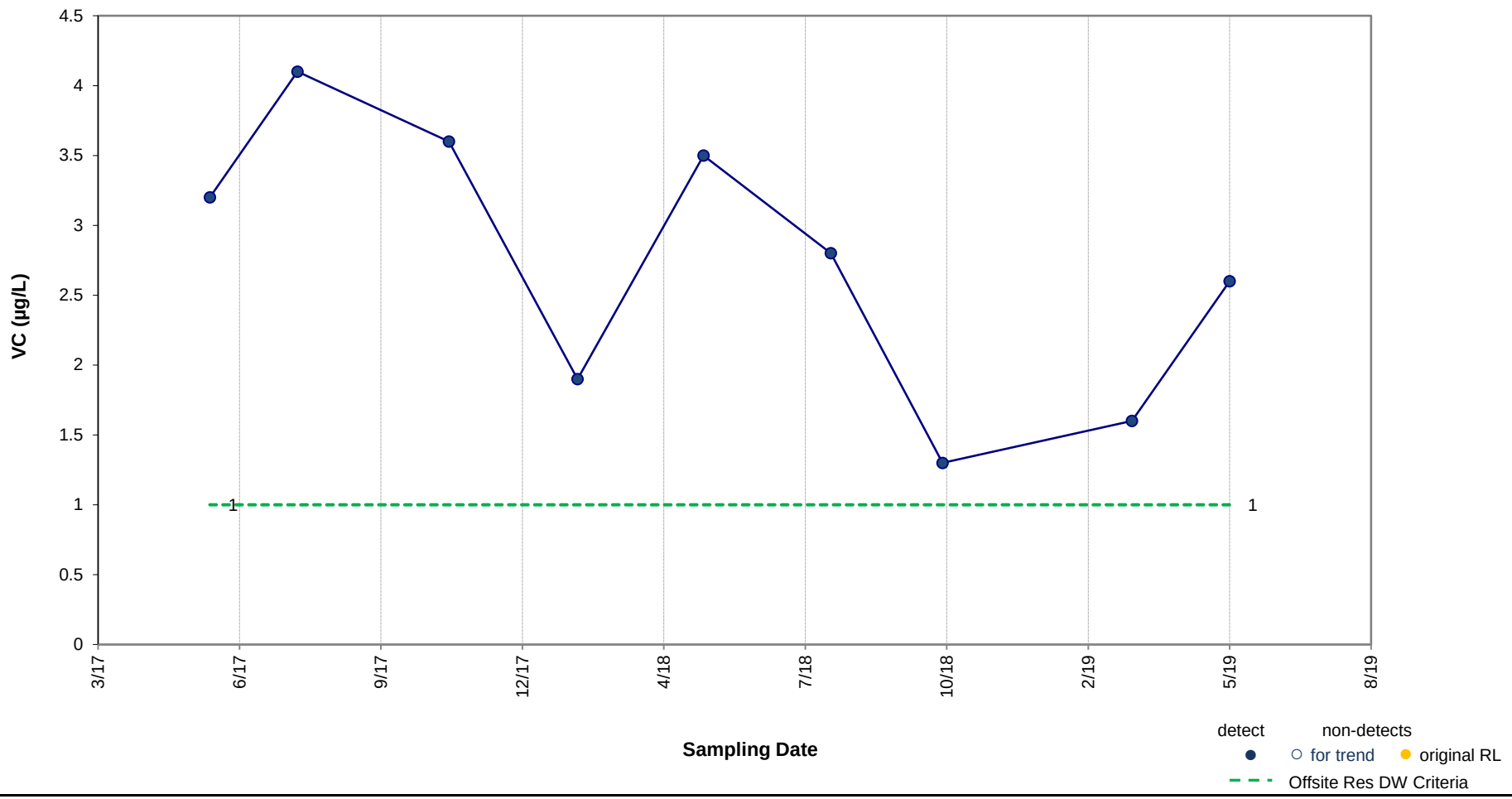
p value = <0.001 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-75D

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 32



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

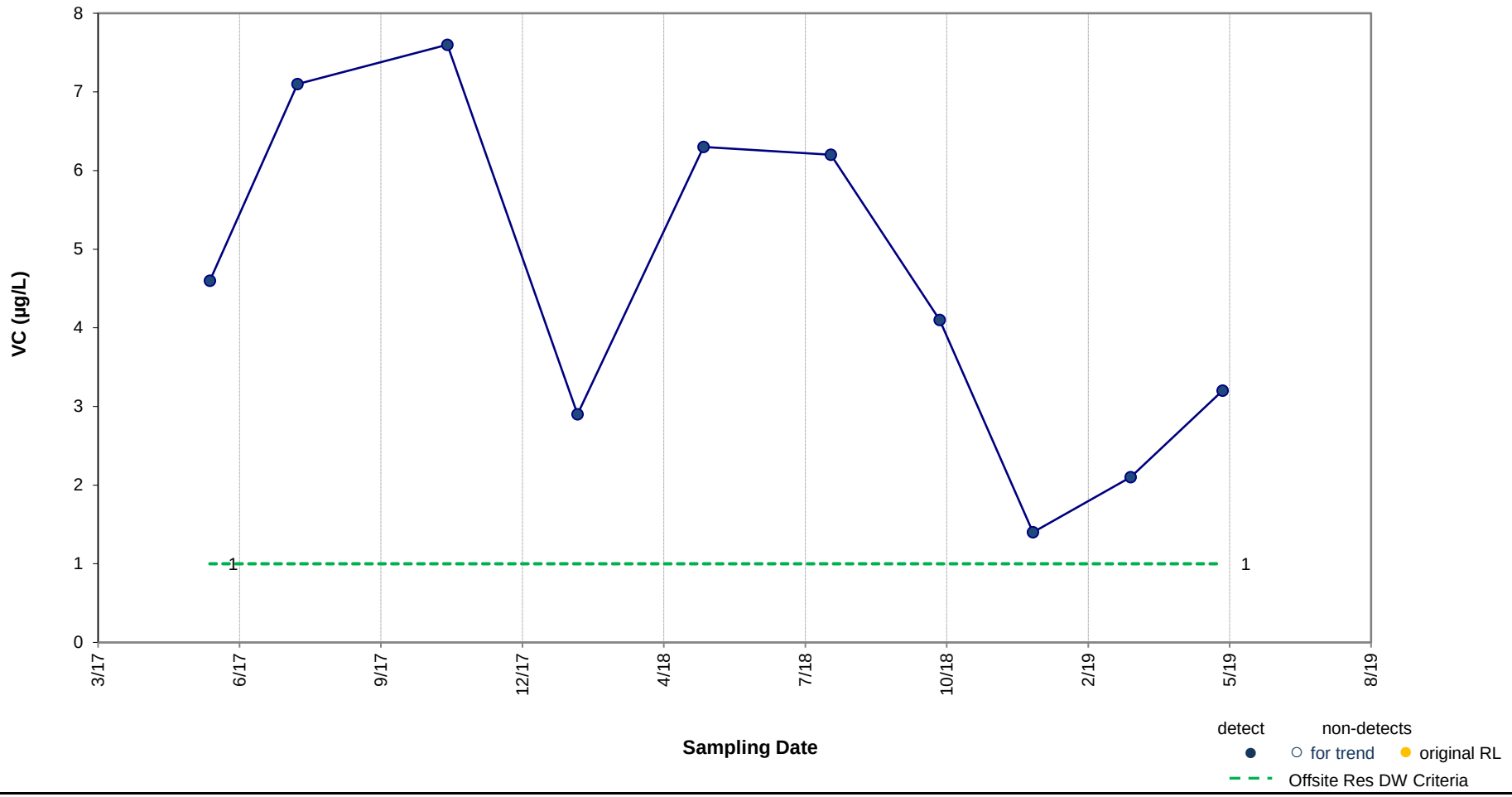
p value = 0.038 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-79D

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 33



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

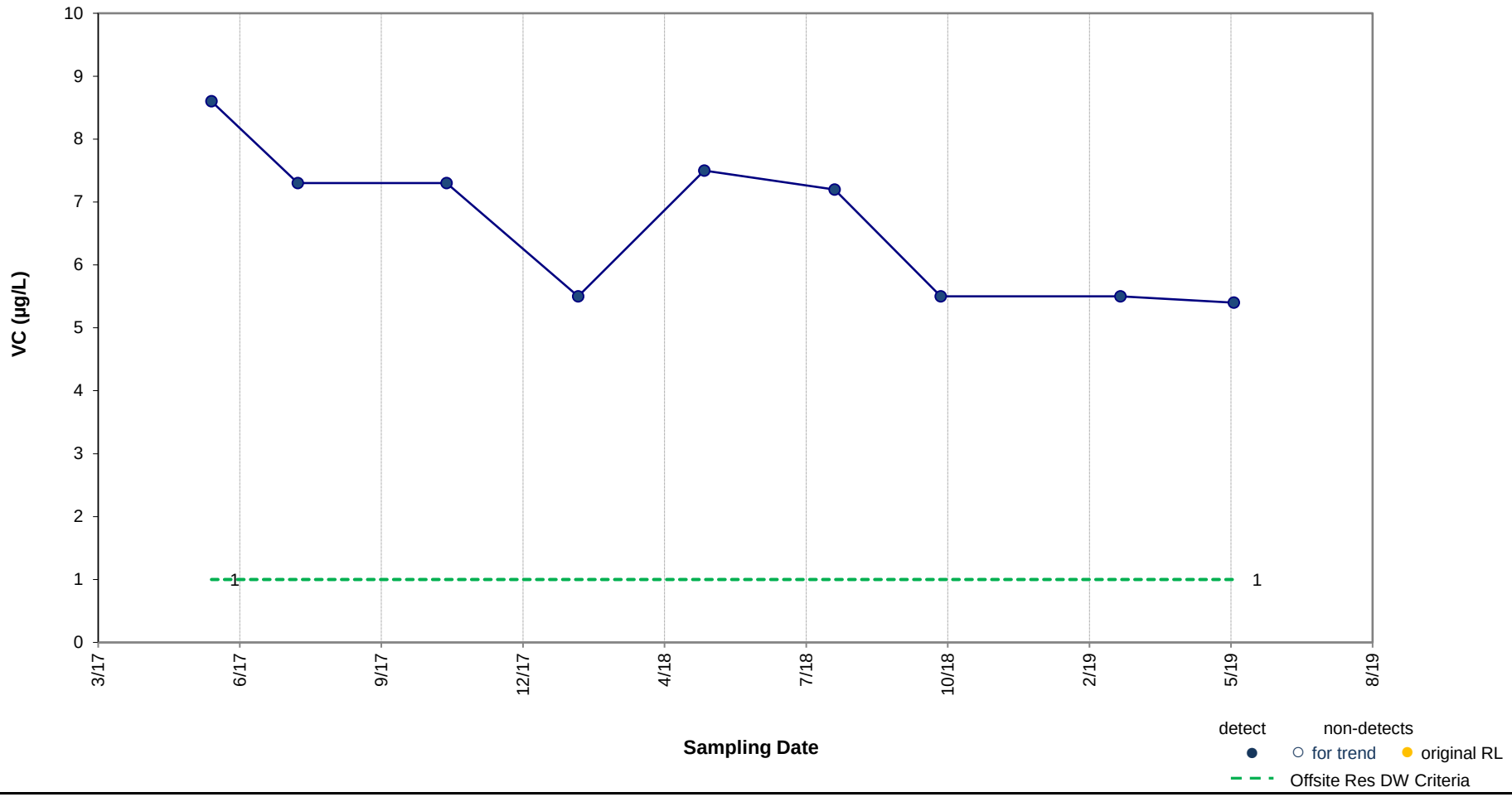
p value = 0.036 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-80S

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 34



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

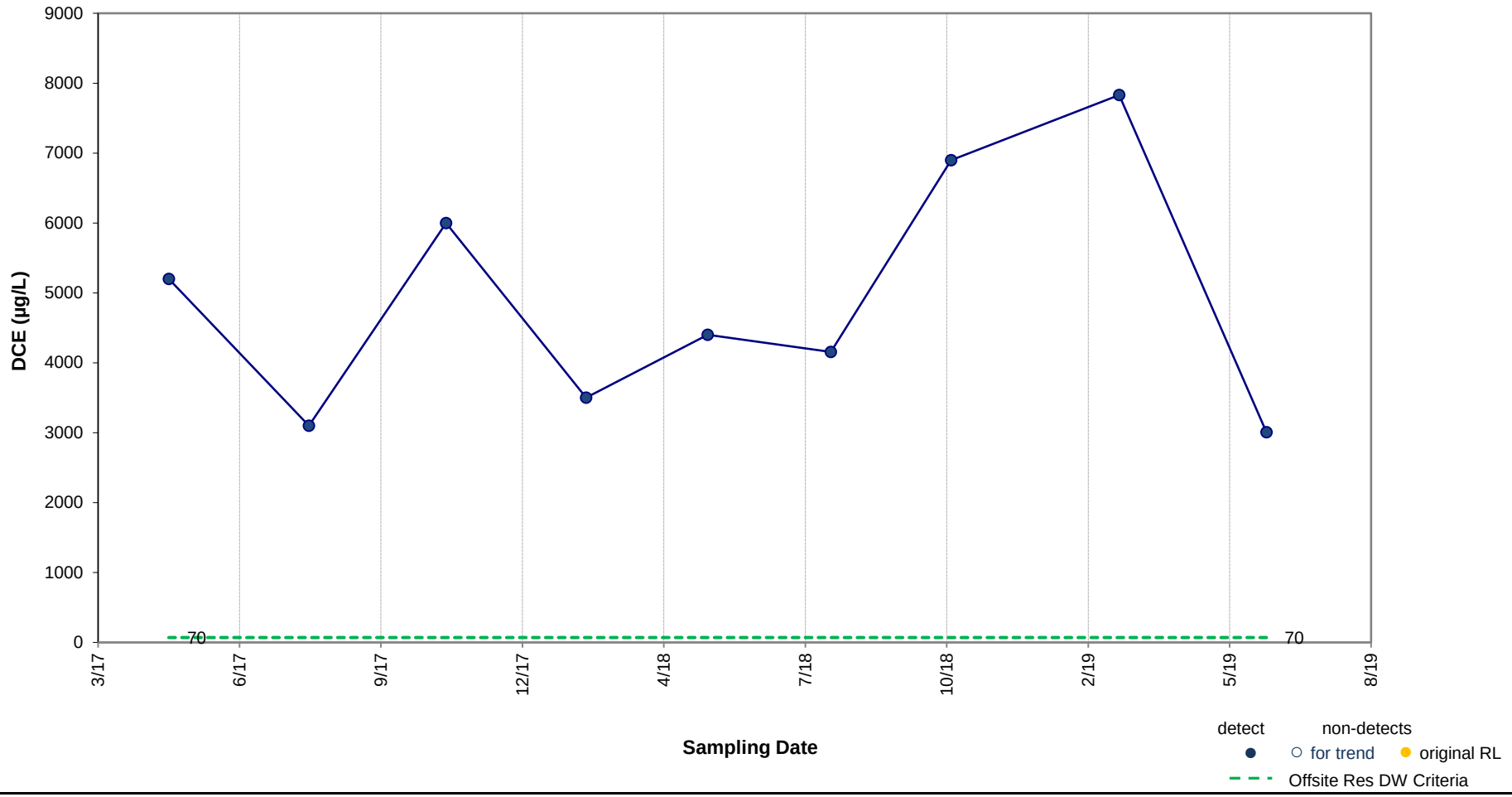
p value = 0.006 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in MW-85

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 35



Results of Mann-Kendall Test for Trend: **No Significant Trend**

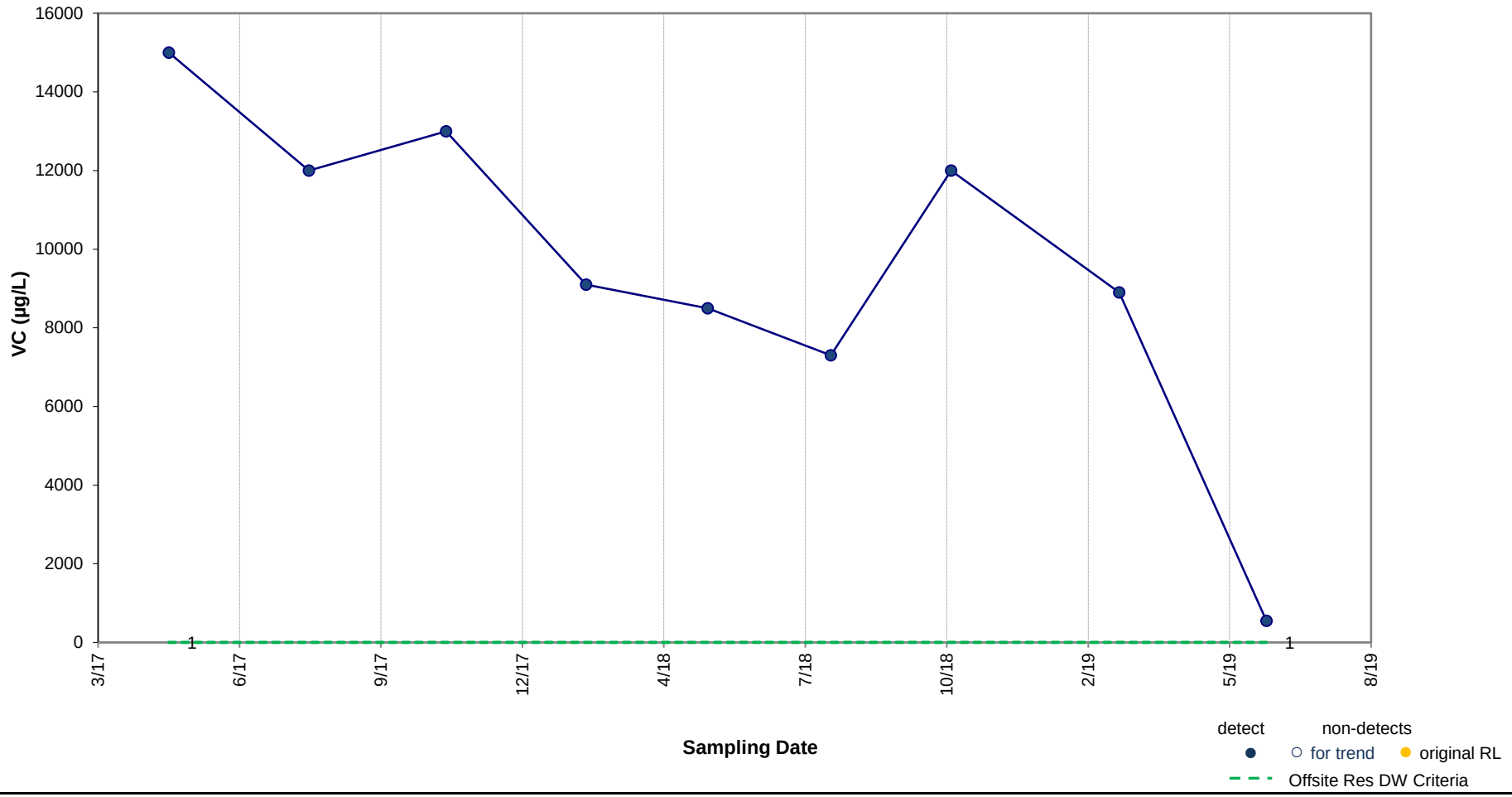
p value = 0.381 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – DCE in TW-16-02

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 36



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

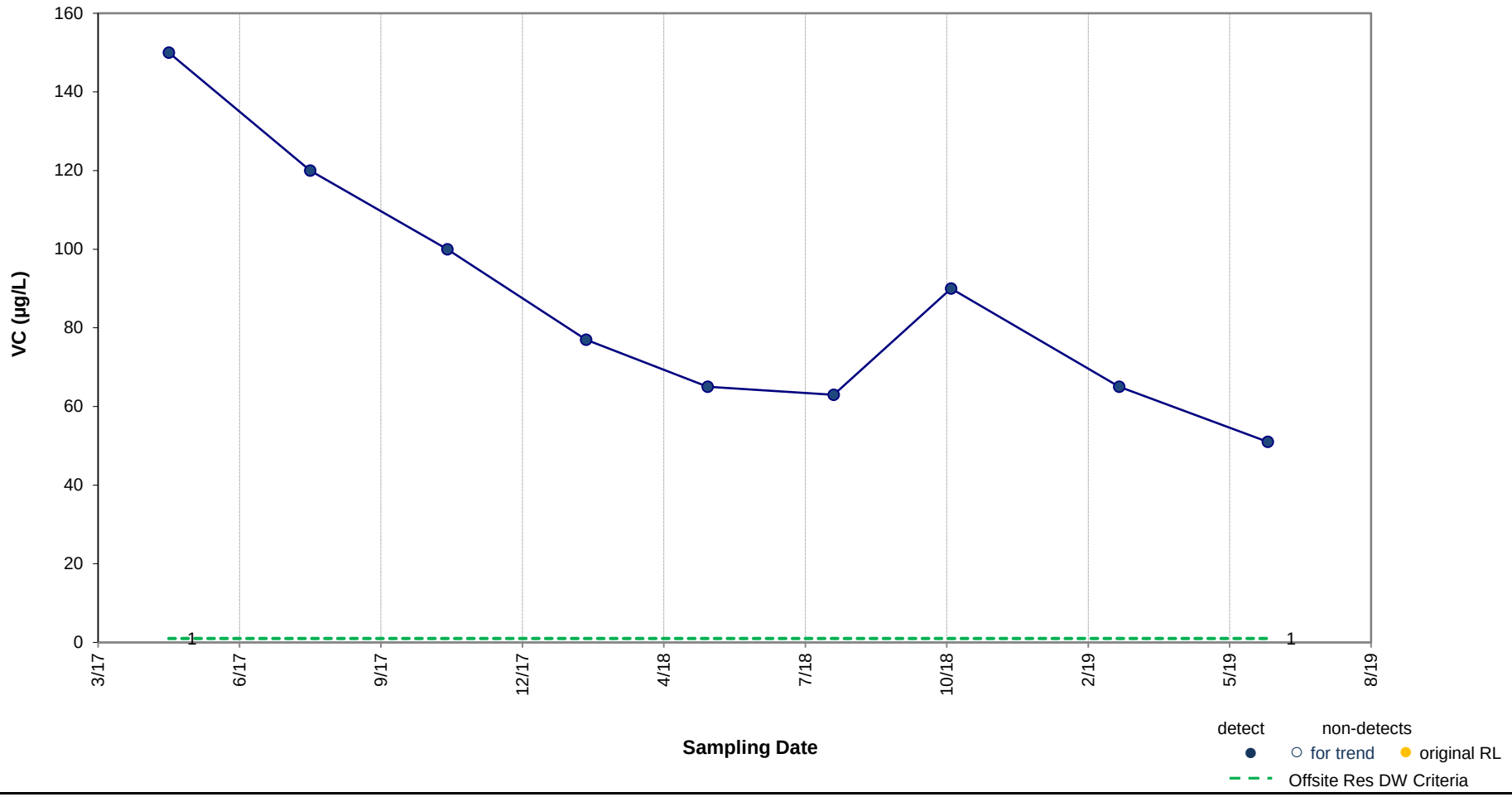
p value = 0.009 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in TW-16-02

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 37



Results of Mann-Kendall Test for Trend: **DECREASING TREND**

p value = 0.002 Note: p value < 0.1 indicates a statistically significant trend (90% confidence level).

ARCADIS

Concentration vs. Time Plot – VC in TW-16-04

Ford Motor Company, Livonia Transmission Plant, Livonia, Michigan

Figure 38

Arcadis of Michigan, LLC

28550 Cabot Drive

Suite 500

Novi, Michigan 48377

Tel 248 994 2240

Fax 248 994 2241

www.arcadis.com