

TRANSMITTAL LETTER



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Date:

April 30, 2018

Subject:

Arcadis Project No.:

Livonia Transmission Plant
Q1 2018 Progress Report

MI001322.0001

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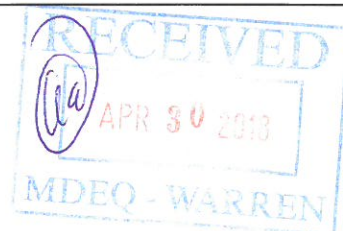
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FORD MOTOR COMPANY

QUARTERLY PROGRESS REPORT - 1Q 2018

Livonia Transmission Plant

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April 30, 2018

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It has a diagonal line running from the bottom left to the top right, and a horizontal line near the top, creating a sense of depth and movement.

QUARTERLY PROGRESS REPORT - 1Q 2018

Livonia Transmission Plant



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April 30, 2018

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1Q 2018: Activities

On-Site

1. Groundwater Sampling
2. Hydraulic Control System Performance Monitoring
 - ✓ Operating as Designed Since March 15, 2017
 - ✓ Discharge Compliance
3. LTP VI Mitigation System Design and Construction

Total On-Site Samples

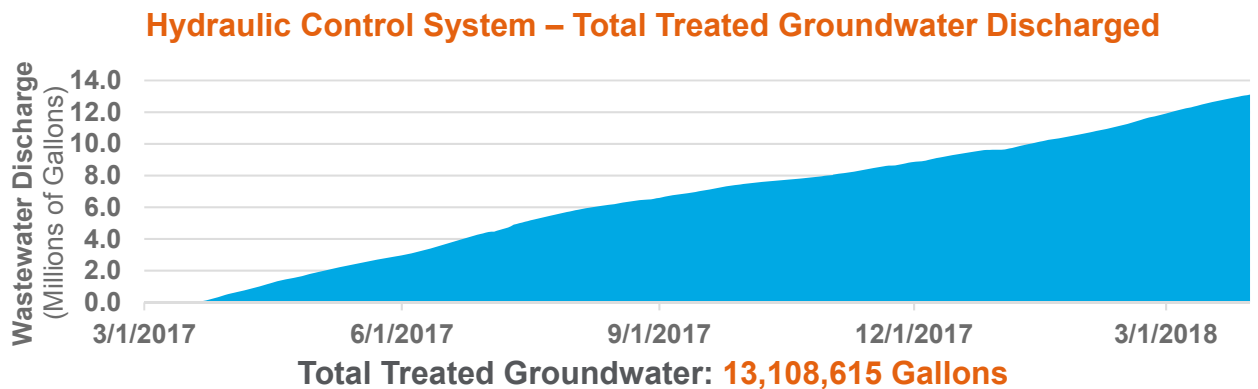
Period	Groundwater / Water	Soil/ Sediment	Soil Gas
1Q 2018	64	0	0
Total since Oct. 2015	607	328	152

Off-Site

1. Groundwater Sampling
2. Soil Gas Sampling

Total Off-Site Samples

Period	Groundwater	Soil Gas
1Q 2018	20	24
Total since Oct. 2015	351	131



Key Dates

Document Submittal

Document	Date Submitted	Status
GW Work Plan	4/20/2017	Received
Off-Site VI Work Plan	4/21/2017	Received
Site Specific VIAC	8/9/2017	Approved
CSM	8/30/2017	Approved
QAPPs	8/30/2017	Received
HASP	8/30/2017	Received
Target Detection Limit Request RespAP	11/17/17	Approved
3Q 2017 Progress Report	11/22/17	Received
Response to MDEQ Comments for the Conceptual Site Model	12/12/17	Received
Remedial Investigation RespAP	12/13/17	MDEQ Disapproved on March 9, 2018
4Q 2017 Progress Report	1/30/18	Received

Upcoming Dates

2018

- May 7** On and Off-Site 2Q 2018 Groundwater Sampling
- May 28** Off-Site 1Q 2018 Soil Gas Sampling

Regulatory Meetings

2018

- January 22** Ford met with MDEQ
- February 7** Ford met with MDEQ and MDHHS

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

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APPENDICES

Appendix A - On-Site Groundwater Field Sampling Logs

Appendix B - Off-Site Groundwater Field Sampling Logs

Appendix C - Off-Site Soil Gas Field Sampling Logs

ACRONYMS AND ABBREVIATIONS

1,1-DCE	1,1-dichloroethene
1Q 2018	first quarter of 2018
4Q 2017	fourth quarter of 2017
AOC	Area of Concern
ATNPC	Automatic Transmission New Product Center
Cis-1,2-DCE	cis-1,2-dichloroethene
COC	constituent of concern
CSM	conceptual site model
DO	dissolved oxygen
GLWA	Great Lakes Water Authority
gpd	gallons per day
gpm	gallons per minute
GWIC	groundwater in contact
HCS	hydraulic control system
LTP	Livonia Transmission Plant
µg/L	microgram per liter
MDEQ	Michigan Department of Environmental Quality
MDHHS	Michigan Department of Health and Human Services
mg/L	milligram per liter
mL	milliliter
mL/min	milliliter per minute
ORP	oxidation-reduction potential
PCE	tetrachloroethene
PLC	programmable logic controller
RespAP	Remedial Investigation Response Activity
RIASL	Residential Interim Action Screening Level
RRD	Remediation and Redevelopment Division
SSD	sub-slab depressurization
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
VC	vinyl chloride

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VI vapor intrusion

VOC volatile organic compound

WWTP Wastewater Pre-Treatment Plant

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1 INTRODUCTION

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 filed by 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 continued response activities completed voluntarily by Ford, both at the site and the area east of the site, since submittal of the conceptual site model (CSM) to the MDEQ on August 25, 2017 and initial Remedial Investigation Response Activity Plan (RespAP), submitted on December 13, 2017. This progress report includes activities completed from January 1 through March 31, 2018 (1Q 2018). Activities described in this 1Q 2018 report include:

- On- and off-site groundwater sampling
- Off-site soil gas sampling
- Hydraulic control system operation, evaluation, and optimization
- LTP vapor mitigation system construction.

In addition to the activities listed above, it is important to note that Ford voluntarily scheduled and attended a meeting with the MDEQ on January 22, 2018 and attended a meeting with the MDEQ and Michigan Department of Health and Human Services (MDHHS) on February 7, 2018, to review the activities associated with the RespAP.

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.

Groundwater analytical results continue to be stable for both on-site and off-site samples, and soil gas samples collected from the soil vapor monitoring points (SVMPs) in the residential neighborhood continue to show no exceedances of the Recommended Interim Action Screening Levels (RIASLs).

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 covers 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 location 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, Waste Water Pre-Treatment Plant (WWTP), Automatic Transmission Plant New Product Center (ATNPC), associated outbuildings, and the Plymouth Road right-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**).

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2 SUMMARY OF RESPONSE ACTIVITIES

The following table summarizes all response activities conducted at the AOC completed during 1Q 2018. Refer to the subsequent sections for further detail on each respective event and associated tables and figures.

Date	Activity	Tables	Figures
February 2018	On-Site Groundwater Sampling	1, 2	3, 4, 5, 6, 7
February 2018	Off-Site Groundwater Sampling	3, 4	3, 8, 9
February 2018	Off-Site Residential Soil Gas Sampling	5, 6, 7	10, 11, 12, 13
January through March 2018	Hydraulic Control System Monitoring	8, 9	NA

On-Site Groundwater Sampling

Arcadis completed site-wide groundwater gauging on February 5 and 6, 2018, which included 79 monitoring wells (**Figure 2**). Out of the 79 total monitoring wells on site, 71 were successfully gauged. The remaining eight monitoring wells (LMW-15-01, LMW-15-04, LMW-15-05, LMW-15-06, LMW-15-07, LMW-15-08, MW-1, and MW-27) either could not be located or were inaccessible at the time of the gauging. Each monitoring well was gauged from the top of casing using an electronic water level meter to within 0.01 foot. A summary of the on-site 1Q 2018 groundwater elevations is included on the on-site quarterly groundwater elevation summary table (**Table 1**). Groundwater elevation contours and apparent groundwater flow for the 1Q 2018 are provided on **Figure 3**.

On-site groundwater sampling was completed from February 6 through 15, 2018. Groundwater was purged from the well at a low flow rate (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. On-site groundwater field sampling logs are provided for reference in **Appendix A**.

A total of 74 groundwater samples were collected and submitted on ice under chain-of-custody seal to TestAmerica Laboratories in Canton, Ohio (TestAmerica), including four duplicate samples and six trip blanks. All groundwater samples were submitted for analysis of volatile organic compounds (VOCs) via United States Environmental Protection Agency (USEPA) Method 8260B and 1,4-dioxane via USEPA Method 8260B-SIM on a standard turnaround time of 10 business days. The groundwater analytical results are discussed below.

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Off-Site Groundwater Sampling

Arcadis completed off-site gauging on February 5, 2018, which included 20 monitoring wells (MW-72 through MW-87, illustrated on **Figure 2**). Each monitoring well was gauged from the top of casing using an electronic water level meter accurate to within 0.01 foot. A summary of the 1Q 2018 groundwater elevations 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**.

Off-site groundwater sampling was completed from February 6 through 8, 2018. Groundwater was purged from the well at a low flow rate (100 to 300 mL/min) until field parameters (conductivity, pH, turbidity, temperature, DO, and ORP) had stabilized. Once field parameters were stable, groundwater samples were collected into laboratory supplied bottles. Off-site groundwater field sampling logs are provided for reference in **Appendix B**.

A total of 23 groundwater samples were collected and submitted on ice under chain-of-custody seal to TestAmerica, including one duplicate sample and two trip blanks. 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.

Off-Site Soil Gas Sampling

Arcadis completed off-site soil gas sampling between February 19 and 21, 2018. Of the 43 total soil gas monitoring points installed east of the site, 24 soil gas samples were collected during the 1Q 2018 sampling event (**Figure 2**). Samples from SVMP-13 through SVMP-17, SVMP-20, and SVMP-21 could not be collected in 1Q 2018 due to saturated sample ports. SVMP-29 through SVMP-37 are located on residential properties and were not sampled in 1Q 2018, and SVMP-11 (installed in the City Right-Of-Way) was abandoned at the request of the adjacent property owner. All SVMPs not sampled in the 1Q 2018 have been sampled during previous events (i.e., June, September, and November 2017). The next quarterly sampling event is scheduled for May 2018, and all SVMPs (except for SVMP-11 and SVMP-29 through SVMP-37) will be sampled. The 24 SVMPs were analyzed for 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC, and 1,4-dioxane via USEPA Method TO-15 using 1-liter summa canisters and 20-minute flow controllers. Each location was purged of approximately 120 milliliters (mL) of air before sampling.

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

- Tracer gas testing has been conducted during three 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 MDEQ VI Guidance Appendix F and in line with industry-accepted standards. As discussed in the MDEQ 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 the three rounds of soil-gas sample collection through December 2017. 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 MDEQ VI guidance. Tracer gas testing results are presented in **Table 5**.

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- Very small screened intervals (1" screen within a 3" sand pack) were installed to allow for a thicker bentonite seal to the ground surface at each location.
- Soil-gas sampling has been conducted very 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. MDEQ suggests samples be collected at or below 200 ml/min "to minimize the potential for vacuum extraction of contaminants from the soil phase."
- 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 (i.e., 1 to 2% below atmospheric), while concentrations of carbon dioxide are slightly elevated (i.e., 3 to 6%). This is as expected due to the influence of microbial respiration in the vadose zone, which consumes oxygen and produces carbon dioxide (USEPA 2015¹). Carbon dioxide and oxygen concentrations from the SMPS are presented in **Table 6**.

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

The soil gas 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 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 C**. The off-site soil gas results are discussed below.

Hydraulic Control System

System Overview

The hydraulic control system (HCS) was installed to intercept groundwater and mitigate the potential for impacted groundwater to continue migrating east of the HCS. HCS performance is monitored and evaluated in accordance with the USEPA guidance – A Systematic Approach for Evaluation of Capture Zone at Pump and Treat Systems (USEPA 2008). 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. Each extraction well screen is 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 carbon filters, before being discharged to the sanitary sewer under a permit with the Great Lakes Water Authority (GLWA). 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 CSM dated August 25, 2017.

Remediation system equipment is operated by a programmable logic controller (PLC) unit that allows the remediation system to function without operator supervision. The HCS operates each horizontal well by

¹ United States Environmental Protection Agency (USEPA). 2015. Technical Guide for Addressing Petroleum Vapor Intrusion at Leaking Underground Storage Tank Sites. June.

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extracting groundwater to achieve the maximum drawdown available within each pumping well without dewatering the horizontal screen. Pumping in each well ceases when target drawdown is achieved and resumes when the water table begins to recharge.

System Operation and Performance Monitoring

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

As part of routine field activities, Arcadis periodically collects groundwater elevations from monitoring wells across the site, as well as pressure transducers installed at key monitoring wells and system well locations. Groundwater elevation trends, groundwater horizontal gradient, along with long-term groundwater analytical trends, will be the primary lines of evidence used to demonstrate effectiveness of the HCS.

3 SUMMARY OF RESPONSE ACTIVITY RESULTS

On-Site Groundwater Sampling

The results of the on-site monitoring well gauging indicate an apparent groundwater flow direction from west to east, locally influenced by the HCS. On-site groundwater elevation contours are presented on **Figure 3**. Additional monitoring wells are recommended in order to enable a better resolution of the hydraulic gradient. Details of the performance of the HCS are provided below.

The on-site monitoring well groundwater results are compared to Michigan Part 201 Non-residential Generic Cleanup Criteria (December 2013). The 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, and VC are provided on **Figures 4 through 7**, respectively. All other site-specific compounds (1,1-DCE, PCE, and 1,4-dioxane) were either not detected at concentrations above the reporting limits or were detected at concentrations below Part 201 Criteria.

Off-Site Groundwater Sampling

The results of the off-site monitoring well gauging indicate an apparent groundwater flow direction from west to east. Off-site groundwater elevation contours are included on **Figure 3**.

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 Consent Decree, which became effective on July 27, 2017. However, the site-specific screening levels provided for TCE and VC where groundwater may be in contact (GWIC) with a structure are below typical target detection limits (TDLs) for these compounds. Therefore, Ford requested the use of the MDEQ 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

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for GWIC on November 17, 2017. The MDEQ approved the use of the TDLs for TCE and VC on December 20, 2017.

The off-site groundwater results are summarized in **Table 4**. Only VC was detected in off-site monitoring wells at concentrations above the 1.0 µg/L TDL. The results for TCE and VC are provided on **Figures 8 and 9**, respectively. All other site-specific compounds (1,1-DCE, cis-DCE, trans-DCE, PCE, and 1,4-dioxane) were either not detected at concentrations above the reporting limits or were detected at concentrations below respective Part 201 Residential Criterion.

Off-Site Soil Gas Monitoring

The soil gas analytical results from 1Q 2018 sampling are compared to site-specific RIASLs for residential properties provided by the MDEQ; these results are summarized in **Table 7**. There were no off-site exceedances of the RIASLs for any of the site COCs. Compound-specific results for detections of cis-DCE, PCE, TCE, and VC are provided on **Figures 10, 11, 12 and 13**, 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. **Figures 10, 11, 12, and 13** show not only current sampling data (1Q 2018) but also present results of previous rounds of sampling for comparison. Up to four rounds of samples have been collected from the SVMP locations since the inception of the sampling program in June 2016.

Four rounds of soil gas sampling have now been conducted off site through 1Q 2018 totaling 131 soil gas samples. Although sporadic low-level VOC detections have been noted, there have been no exceedances of the residential RIASLs provided by MDEQ for the site in any off-site soil gas sample collected from any depth interval. Based on the results of the helium tracer testing, carbon dioxide, and oxygen sampling conducted during each round of sampling, Ford believes that the results are representative and provide an accurate interpretation of off-site soil gas conditions. These soil gas sample results, coupled with the groundwater monitoring results for the site, continue to demonstrate that a clean water lens is present in most of the off-site area.

To enable the collection of building-specific information at select off-site locations, a VI RespAP was developed to evaluate the volatilization to indoor air pathway consistent with MDEQ VI guidance (2013). This VI RespAP was submitted under separate cover, on April 13, 2018, and is specifically designed to follow the process laid out in section 6.6(b)(i) of the Consent Decree, which requires a RespAP to “assess VI risks to identify any unacceptable human health risks from volatilization to indoor air.”

Hydraulic Control System Operation and Performance Monitoring

System Operation

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

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Exhibit 1: HCS Shutdown Summary

Date of Shutdown	Duration of Shutdown	Summary of Shutdown
19- Jan-18	Less than 24 hours	System manually shut down to perform maintenance activities on influent manifold. Total shutdown time was approximately 6.5 hours.
29- Jan-18	Less than 24 hours	System shut down due to components freezing on the catalytic oxidizer during extreme cold conditions with temperatures ranging from 13 to 31 degrees Fahrenheit. Restart of catalytic oxidizer occurred the following day. It was determined that condensation associated with the flow meter was freezing and causing the catalytic oxidizer to shut down due to improper air flow. Total shutdown time was approximately 13.5 hours. The temperature-sensitive areas of the catalytic oxidizer were heat-traced, improved insulation was installed, and the HCS resumed normal operation on January 30, 2018.
8- Feb-18	Less than 24 hours	Pumps manually shut off to pump water from backwash tote through the system. Total shutdown time was approximately 1.5 hours.
14- Feb-18	Less than 24 hours	System manually shut down to collect samples from carbon vessels (V-700-1 and V-700-2). System restarted, and operation resumed on the same day as the shutdown. Total shutdown time was approximately 4 hours.
15- Feb-18	Less than 24 hours	Pumps were offline intermittently throughout the day while field staff tested pumping rates. Total shutdown time was approximately 7.5 hours.
20- Feb-18	Less than 24 hours	Fouled effluent bag filters led to a high scrubber sump alarm, shutting the system down. Snowmelt and heavy rain led to increased flows that fouled the filters faster than they normally would have. Field staff replaced the bag filters and pumped treated water in the sump through the system. System restarted, and operation resumed on the same day as the shutdown. Total shutdown time was approximately 2.5 hours.
22- Feb-18	Less than 24 hours	Field staff shut down the system and catox to inspect the air stripper, then resumed normal operations. Total shutdown time was approximately 1 hour.
26- Feb-18 15- Mar-18 29- Mar-18	Less than 24 hours per day	Field staff shut down the system for a system backwash. Total shutdown time was less than 1 hour per day.
27-Feb-18	Less than 24 hours	Field staff shut down the system for quarterly air stripper cleaning. Total shutdown time was approximately 6 hours.
9- Mar-18	Less than 24 hours	Field staff turned off the pumps to drain the backwash tote, install a new ball valve, and conduct a system backwash. Normal operation resumed the same day. Total shutdown time was approximately 2.5 hours.
19- Mar-18	Less than 24 hours	Field staff shut down wells to empty the backwash tote. Total shutdown time was approximately 0.5 hour.
26- Mar-18	Less than 24 hours	Field staff shut down ESD-4 for check valve replacement. Field staff discovered a ruptured coupling underneath the system building where the pipes run to the surface. All wells were shut off while the broken part and influent bag filters were replaced, and the system was restarted. Total shutdown time was approximately 8 hours.

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QUARTERLY PROGRESS REPORT – 1Q 2018

During the reporting period, groundwater was extracted from the horizontal wells in a manner to maintain 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 1Q 2018 reporting period. The total volume of water collected and treated from March 15, 2017 through the 1Q 2018 is 13,108,615 gallons. Discharge has generally increased through the most recent 3 months of operation (January through March) due to increased recharge to the aquifer and increasing regional water levels.

Exhibit 2: HCS Treated Discharge Water Volume and Flowrate Summary – 1Q 2018

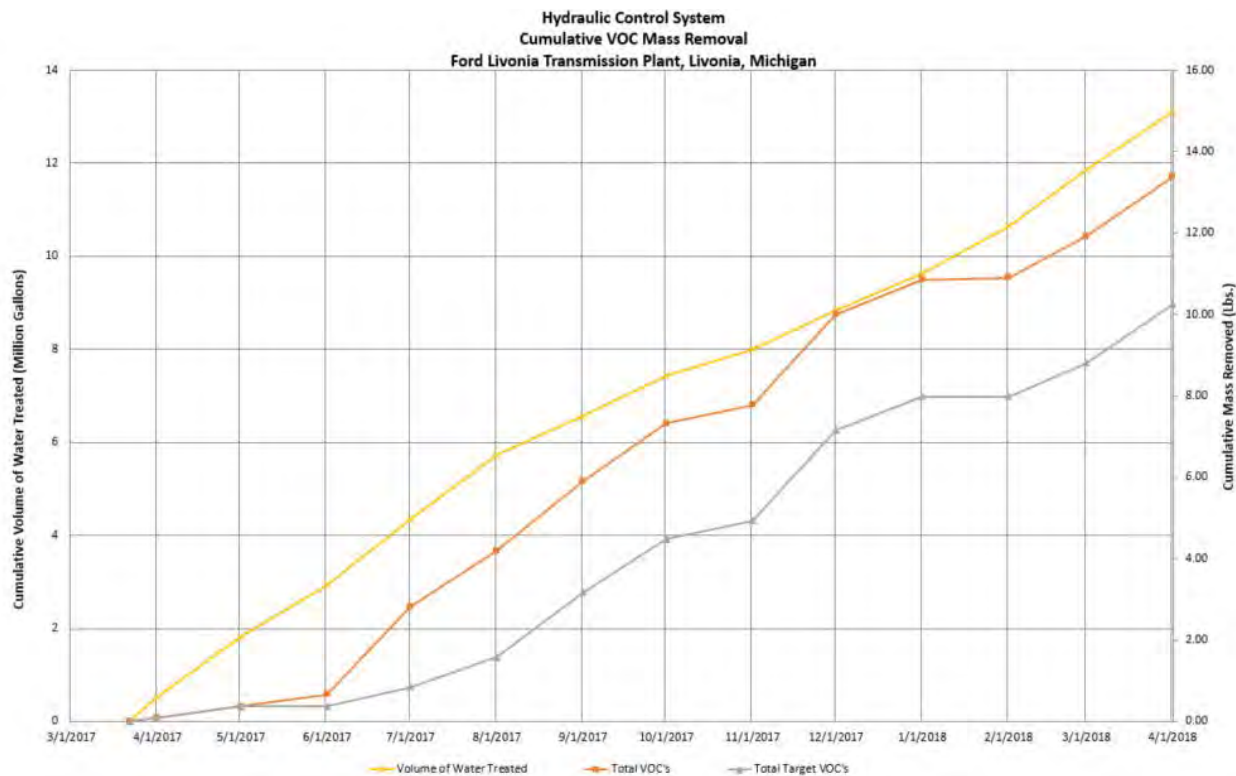
Month	Volume Treated (Gallons)	Average Flowrate (GPM)
January	1,014,925	23
February	1,217,186	27
March	1,247,504	28

GPM = gallons per minute

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Exhibit 3 below depicts the cumulative constituent-specific mass removal of the VOCs identified above through the 1Q 2018 reporting period. Vapor analytical concentrations are provided in Table 9.

Exhibit 3: HCS Mass Removal – 1Q 2018



Hydraulic Capture

HCS performance is being evaluated in general accordance with USEPA guidance – A Systematic Approach for Evaluation of Capture Zone at Pump and Treat Systems (USEPA 2008) to ensure that the system is capturing groundwater as designed and mitigating additional migration of impacted groundwater to the east of the HCS. Two lines of evidence will be used to evaluate system performance: groundwater elevation and groundwater analytical trends.

A groundwater elevation contour map, including the area around the HCS system, is provided as **Figure 3**. The February contour map uses a calculated pumping water level at each of the HCS wells (ESD-1 through ESD-4) to help determine groundwater gradient. The pumping water level is calculated using a pressure transducer reading collected from the southern end of each HCS well relative to the groundwater elevation observed at each well before system startup.

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As shown on **Figure 3**, there is a relatively steep gradient observed west of the HCS as groundwater moves into the zone of influence and groundwater flux is captured by the system. The HCS operates relative to a set target drawdown. The system pumps until the target level is reached and then reduces to maintain the pumping water level. Due to seasonal fluctuations, the elevation of groundwater above the HCS varies. The average monthly pumping rates (~10 to 30 gpm) are consistent with the ambient groundwater flux values calculated for the site. There is an apparent groundwater divide beneath and east of the ATNPC building, with groundwater west of the divide flowing to the HCS and groundwater east of the divide flowing east; however, the extent of downgradient capture cannot be calculated due to limited performance well network coverage in this area. Installation of additional piezometers and pressure transducers is being evaluated for the area around the HCS system. Additional piezometers and groundwater elevation data will further support the evaluation of aquifer hydraulic response and HCS groundwater capture. Currently, the total groundwater extraction rates (**Exhibit 2**) are consistent with the calculated groundwater flux used as a basis of the HCS system design.

Groundwater Analytical Trends

To date, four rounds of groundwater samples have been collected from the performance monitoring wells since the HCS startup (second, third, fourth quarter 2017, and first quarter 2018). Analytical results for the quarterly events are included on **Figures 4 through 9**. To date, analytical results suggest that concentrations are stable downgradient of the HCS. As additional samples are collected, Ford will evaluate analytical trends in key monitoring wells downgradient of the HCS system. Observations and measurements to date indicate that the HCS system operates as designed and prevents further migration of groundwater impacts to the east of the HCS.

Summary of Compliance Actions

Monthly compliance sampling for the HCS GLWA discharge permit was completed each month. Samples were collected after treatment and before 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.

Exhibit 4: GLWA Discharge Limitations for HCS

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

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Parameter	Analytical Method	Discharge Limit
Zinc (Zn)	USEPA 200.7	7.3 mg/L
Total PCB	USEPA 608	Non-Detect
Total Toxic Organics	USEPA 624 - VOCs	20 µg/L
	USEPA 625 – Semi-Volatile Organic Compounds (SVOCs)	
	USEPA 625 Dioxin Screen	
	USEPA 1613B – Dioxins and Furans	

In addition, the GLWA discharge permit limits discharge to 100,800 gallons per day (gpd) and/or 70 gpm. Discharge volumes are documented daily and tabulated monthly. Discharge volumes were within discharge limits during 1Q 2018. Tabulated discharge volumes for the 1Q 2018 reporting period are presented in **Table 8**.

During the reporting period, Arcadis collected vapor samples from the air stripper effluent before vapor treatment by the catalytic oxidizer. These samples were analyzed for VOCs using the USEPA Air Method TO-15 for documenting compliance with the Rule 290 air permitting exemption of the Michigan Air Pollution Control Rules. The vapor analytical data from the air stripper effluent are summarized in **Table 9**. The January 2018 vapor sample had lower than normal VOC concentrations.

Livonia Transmission Plant Vapor Mitigation System

In response to the presence of VOCs beneath the LTP building, Ford has designed and begun the installation of a sub-slab depressurization (SSD) system.

Construction of the SSD system began in September 2017. To date, the completed construction consists of nine sub-grade suction pits and associated above-grade vertical riser piping. Currently, the sub-grade suction pits are attached to a capped riser pipe with a closed valve. The installation of overhead conveyance piping is currently ongoing. The SSD system is schedule to be in operation by the 2Q 2018. Further information regarding the progress of the construction of the SSD system will be included in subsequent progress reports.

4 ACCESS AGREEMENTS

No additional agreements were needed to achieve Ford's objectives during the 1Q 2018 reporting period.

5 OTHER RELEVANT INFORMATION

Due Care Obligations

Response activities are ongoing and maintaining the due care obligation.

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Official Communications

During the 1Q 2018 reporting period, Ford met with the MDEQ on January 22, 2018 and with the MDEQ and MDHHS on February 7, 2018, to provide an overview of the proposed Remedial Investigation (RI) response activities for the site. The overall objective of these meetings was to detail the tasks necessary to complete a comprehensive remedial investigation. The proposed response activities addressed data gaps identified in the initial CSM Report dated August 25, 2017. The response activities discussed in the meetings include:

- On-site and off-site vapor intrusion evaluation
- On-site source area investigation
- Utility corridor investigation
- Groundwater delineation to the north and to the east of LTP
- On-site and off-site routine groundwater and soil gas monitoring.

Further details regarding the response activities identified above were detailed in the VI and RI RespAPs submitted to the MDEQ on April 13, 2018.

Public Outreach

Ford currently has an active website that allows the general public access to project updates. The website link is: <http://www.fordlivoniabostonbeaconproject.com>. Ford is currently working to update the existing website to organize the documents in a manner that matches the Consent Decree.

List of Reporting Documents

A list of all reporting documents submitted through the 1Q 2018 reporting period is included in **Exhibit 5** below.

Exhibit 5: Submitted Reporting Documents – 1Q 2018

Report Title	Submission Date
4Q 2017 Progress Report	January 30, 2018

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 Veolia Environmental Services (Veolia). Veolia is the Total Waste Manager (TWM) for the site.

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7 PROPOSED SCHEDULE

Future response activities are scheduled as follows:

Exhibit 6: Response Activity Schedule

Response Activity	Proposed Schedule	Anticipated Completion
2Q 2018 On-site groundwater sampling	Week of May 7, 2018	May 16, 2018
2Q 2018 Off-site groundwater sampling	Week of May 7, 2018	May 16, 2018
2Q 2018 Off-site soil gas sampling	Week of May 28, 2018	June 1, 2018
HCS performance monitoring	Monthly intervals	Ongoing

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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 Thickness (ft.)	Corrected Groundwater Elevation (ft. amsl)
LMW-15-01	673.98	7-12	11/16/15	8.42	11.36	12	2.94	664.97
			11/25/15	8.44	11.35	12	2.91	664.96
			11/30/15	8.38	11.36	12	2.98	665.01
			12/08/15	8.35	11.35	12	3.00	665.03
			11/06/17	Could Not Open ⁽²⁾				
			02/05/18					
LMW-15-02	673.90	7-12	11/16/15	7.70	10.10	12	2.40	665.72
			11/25/15	7.68	9.83	12	2.15	665.79
			11/30/15	7.66	9.84	12	2.18	665.80
			12/09/15	7.60	9.76	12	2.16	665.86
			11/06/17	8.39	11.13	NM	2.74	664.96
			02/05/18	8.54	11.02	NM	2.48	664.86
LMW-15-03	670.18	7-12	11/16/15	6.01	7.46	12	1.45	663.88
			11/25/15	5.92	7.04	12	1.12	664.04
			11/30/15	5.81	6.94	12	1.13	664.14
			12/11/15	5.83	7.26	12	1.43	664.06
			11/06/17	6.36	7.49	NM	1.13	663.59
			02/05/18	6.62	8.41	NM	1.79	663.20
LMW-15-04	673.92	6-11	11/16/15	7.10	8.79	11	1.69	666.48
			11/25/15	7.10	8.79	11	1.69	666.48
			11/30/15	7.06	8.79	11	1.73	666.52
			12/09/15	7.00	8.86	11	1.86	666.55
			11/06/17	Could Not Open ⁽²⁾				
			02/05/18					
LMW-15-05	673.93	7-12	11/16/15	8.50	10.20	12	1.70	665.09
			11/25/15	8.50	9.99	12	1.49	665.14
			11/30/15	8.47	9.98	12	1.51	665.16
			12/08/15	8.42	9.92	12	1.50	665.21
			11/06/17	Could Not Locate ⁽³⁾				
			02/05/18					
LMW-15-06	673.93	7-12	11/16/15	6.92	8.82	12	1.90	666.63
			11/25/15	6.89	8.52	12	1.63	666.72
			11/30/15	6.74	8.39	12	1.65	666.86
			12/09/15	6.62	8.40	12	1.78	666.96
			11/06/17	Could Not Open ⁽²⁾				
			02/05/18					
LMW-15-07	673.52	7-12	11/16/15	NP	7.70	12	NM	665.82
			11/25/15	NP	7.32	12	NM	666.20
			11/30/15	7.14	7.15	12	0.01	666.38
			12/11/15	7.08	7.09	12	0.01	666.44
			11/06/17	7.43	7.53	NM	0.10	666.07
			02/05/18	Could Not Locate ⁽³⁾				

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LMW-15-08	673.88	7.5-12.5	11/16/15	NP	6.30	12.5	NM	667.58
			11/25/15	6.25	6.26	12.5	0.01	667.63
			11/30/15	6.12	6.13	12.5	0.01	667.76
			12/11/15	6.09	6.10	12.5	0.01	667.79
			11/06/17	Could Not Open ⁽²⁾				
			02/05/18					
LMW-15-09	673.93	7-12	11/16/15	7.82	10.62	12	2.80	665.55
			11/25/15	7.76	10.51	12	2.75	665.62
			11/30/15	7.72	10.32	12	2.60	665.69
			12/10/15	7.73	10.38	12	2.65	665.67
			11/06/17	8.29	NA	11.75	3.71	NA**
			02/05/18	8.58	10.50	NM	1.92	664.96
LMW-15-10	673.89	7-12	11/16/15	8.40	9.26	12	0.86	665.32
			11/25/15	8.32	9.13	12	0.81	665.41
			11/30/15	8.24	8.96	12	0.72	665.51
			12/10/15	8.18	8.79	12	0.61	665.59
			11/06/17	8.69	9.50	NM	0.81	665.04
			02/05/18	8.50	8.85	NM	0.35	665.32
MW-15-59D	675.17	94-99	01/07/16	NP	21.83	99	NM	653.34
			01/19/16	NP	21.91	99	NM	653.26
			04/19/17	NP	21.37	99.37	NM	653.80
			07/24/17	NP	28.71	100.80	NM	646.46
			11/06/17	NP	24.48	100.65	NM	650.69
			02/05/18	NP	21.44	100.01	NM	653.73
MW-15-60D	675.75	93-98	01/07/16	NP	19.47	100	NM	656.28
			01/19/16	NP	19.71	100	NM	656.04
			04/19/17	NP	18.65	99.50	NM	657.10
			07/24/17	NP	24.09	99.92	NM	651.66
			11/06/17	NP	20.63	99.92	NM	655.12
			02/05/18	NP	19.61	99.42	NM	656.14
MW-15-61D	670.03	88-93	01/07/16	NP	76.49	93	NM	593.54
			01/08/16	NP	88.02	93	NM	582.01
			01/19/16	NP	73.23	93	NM	596.80
			01/20/16	NP	89.31	93	NM	580.72
			01/26/16	NP	84.09	93	NM	585.94
			01/27/16	NP	82.42	93	NM	587.61
			01/28/16	NP	80.71	93	NM	589.32
			04/19/17	NP	24.71	93.87	NM	645.32
			07/24/17	NP	24.74	94.09	NM	645.29
			11/06/17	NP	26.58	94.72	NM	643.45
			02/06/18	NP	25.79	94.71	NM	644.24

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MW-1	670.77	14-19	04/17/17	NP	3.82	18.61	NM	666.95
			07/24/17	NP	3.57	18.44	NM	667.20
			11/06/17	NP	3.93	18.78	NM	666.84
			02/05/18	NM ⁽⁴⁾	NM ⁽⁴⁾	NM ⁽⁴⁾	NM ⁽⁴⁾	NM ⁽⁴⁾
MW-2	673.80	15.5-20.5	05/12/16	NP	6.35	19.52	NM	667.45
			04/17/17	NP	6.91	19.45	NM	666.89
			07/24/17	NP	6.99	19.44	NM	666.81
			11/06/17	NP	7.24	19.50	NM	666.56
			02/05/18	NP	7.42	19.55	NM	666.38
MW-3	673.61	14-19	05/12/16	NP	5.82	18.79	NM	667.79
			04/17/17	NP	7.09	18.72	NM	666.52
			07/24/17	NP	7.29	18.43	NM	666.32
			11/06/17	NP	7.61	18.80	NM	666.00
			02/05/18	NP	7.70	18.87	NM	665.91
MW-4	673.85	15.5-20.5	05/13/16	NP	7.15	20.20	NM	666.70
			04/17/17	NP	7.57	20.09	NM	666.28
			07/24/17	NP	7.61	19.93	NM	666.24
			11/06/17	NP	7.94	20.05	NM	665.91
			02/05/18	NP	8.50	20.16	NM	665.35
MW-5*	674.40	15.5-20.5	05/13/16	NP	6.49	21.73	NM	667.91
			07/24/17	NP	NM	NM	NM	NM
			11/06/17	NP	7.51	19.71	NM	666.89
			02/05/18	NP	7.70	19.54	NM	666.70
MW-7	670.89	18-23	07/24/17	NP	4.79	22.39	NM	666.10
			11/06/17	NP	5.24	22.56	NM	665.65
			02/06/18	NP	4.48	22.50	NM	666.41
MW-9	671.18	19.5-24.5	05/09/16	NP	5.82	24.34	NM	665.36
			04/17/17	NP	6.79	24.34	NM	664.39
			07/24/17	NP	5.88	24.29	NM	665.30
			11/06/17	NP	6.38	24.53	NM	664.80
			02/05/18	NP	6.40	24.35	NM	664.78
MW-10	673.78	16.5-21.5	05/13/16	NP	8.16	20.81	NM	665.62
			04/17/17	NP	8.15	20.81	NM	665.63
			07/24/17	NP	8.58	20.76	NM	665.20
			11/06/17	NP	6.00	20.84	NM	667.78
			02/05/18	NP	9.01	15.89	NM	664.77
MW-14	671.24	15-20	07/24/17	NP	6.63	19.53	NM	664.61
			11/06/17	NP	7.01	19.61	NM	664.23
			02/05/18	NP	7.29	19.80	NM	663.95

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MW-18	670.41	13-18	05/09/16	NP	6.29	17.89	NM	664.12
			04/17/17	NP	6.67	17.90	NM	663.74
			07/24/17	NP	6.92	17.70	NM	663.49
			11/06/17	NP	7.31	17.80	NM	663.10
			02/06/18	NP	7.45	17.85	NM	662.96
MW-19	669.65	15-20	05/13/16	LNAPL				
			04/17/17					
			07/24/17					
			11/06/17	NP	5.91	19.85	NM	663.74
			02/05/18	NP	6.23	19.84	NM	663.42
MW-20	669.33	13.5-18.5	07/24/17	NP	6.29	16.98	NM	663.04
			11/06/17	NP	6.52	16.84	NM	662.81
			02/05/18	NP	6.68	16.62	NM	662.65
MW-21*	670.76	13.5-18.5	05/13/16	Could Not Open ⁽²⁾				
			04/17/17					
			07/24/17					
			11/06/17					
			02/06/18	NP	7.95	17.74	NM	662.81
MW-22	670.18	16.5-21.5	05/10/16	NP	6.18	20.83	NM	664.00
			04/17/17	NP	7.13	21.41	NM	663.05
			07/24/17	NP	7.53	20.42	NM	662.65
			11/06/17	NP	7.51	20.51	NM	662.67
			02/05/18	NP	7.61	20.48	NM	662.57
MW-23	669.24	15-20	05/09/16	NP	6.23	19.82	NM	663.01
			04/17/17	NP	6.67	19.79	NM	662.57
			07/24/17	NP	6.69	19.72	NM	662.55
			11/06/17	NP	6.60	19.72	NM	662.64
			02/06/18	NP	6.93	NM	NM	662.31
MW-24	675.48	19-24	04/17/17	NP	9.32	23.85	NM	666.16
			07/24/17	NP	10.01	23.90	NM	665.47
			11/06/17	NP	10.40	23.76	NM	665.08
			02/05/18	NP	10.37	23.99	NM	665.11
MW-25	675.04	16-21	04/17/17	NP	5.35	20.54	NM	669.69
			07/24/17	NP	6.34	20.52	NM	668.70
			11/06/17	NP	6.51	20.38	NM	668.53
			02/05/18	NP	6.55	20.52	NM	668.49
MW-26	673.39	4.5-14.5	07/24/17	NP	5.96	14.09	NM	667.43
			11/06/17	NP	6.09	14.10	NM	667.30
			02/05/18	NP	6.08	14.05	NM	667.31

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MW-27*	671.66	4-14	07/24/17	Could Not Locate ⁽³⁾				
			11/06/17					
			02/05/18					
MW-28	668.15	2-12	05/09/16	NP	3.21	11.81	NM	664.94
			04/17/17	NP	3.78	11.69	NM	664.37
			07/24/17	NP	4.61	11.73	NM	663.54
			11/06/17	NP	4.81	11.68	NM	663.34
			02/05/18	NP	4.63	11.65	NM	663.52
MW-29	669.45	5-15	05/13/16	NP	4.10	14.85	NM	665.35
			04/17/17	NP	4.53	14.84	NM	664.92
			07/24/17	NP	5.41	14.90	NM	664.04
			11/06/17	NP	6.65	15.81	NM	662.80
			02/05/18	NP	5.52	14.84	NM	663.93
MW-30	670.70	19-24	05/09/16	NP	9.37	24.82	NM	661.33
			04/17/17	NP	9.86	24.78	NM	660.84
			07/24/17	NP	9.93	24.73	NM	660.77
			11/06/17	NP	10.47	24.84	NM	660.23
			02/05/18	NP	10.31	24.69	NM	660.39
MW-31	670.82	17-22	05/09/16	NP	9.96	21.75	NM	660.86
			04/17/17	NP	10.13	21.78	NM	660.69
			07/24/17	NP	10.19	21.69	NM	660.63
			11/06/17	NP	10.65	21.92	NM	660.17
			02/05/18	NP	10.70	21.48	NM	660.12
MW-32	670.43	18-23	05/09/16	NP	9.64	22.92	NM	660.79
			04/17/17	NP	9.52	22.91	NM	660.91
			07/24/17	NP	9.71	22.71	NM	660.72
			11/06/17	NP	10.18	23.03	NM	660.25
			02/05/18	NP	10.17	22.78	NM	660.26
MW-33	669.94	14-19	05/09/16	NP	8.68	18.76	NM	661.26
			04/17/17	NP	8.76	18.75	NM	661.18
			07/24/17	NP	8.84	19.72	NM	661.10
			11/06/17	NP	8.58	19.08	NM	661.36
			02/05/18	NP	8.63	18.74	NM	661.31
MW-34	670.49	16.5-21.5	05/09/16	NP	7.98	21.21	NM	662.51
			04/17/17	NP	8.83	21.30	NM	661.66
			07/24/17	NP	9.45	21.23	NM	661.04
			11/06/17	NP	10.02	21.65	NM	660.47
			02/05/18	NP	9.73	21.35	NM	660.76

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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 Thickness (ft.)	Corrected Groundwater Elevation (ft. amsl)
MW-35	669.44	19.5-24.5	05/09/16	NP	6.62	24.48	NM	662.82
			04/17/17	NP	7.16	24.63	NM	662.28
			07/24/17	NP	8.55	24.44	NM	660.89
			11/06/17	NP	9.11	24.45	NM	660.33
			02/05/18	NP	8.63	24.50	NM	660.81
MW-36	676.39	20-25	07/24/17	NP	9.49	24.75	NM	666.90
			11/06/17	NP	10.98	24.88	NM	665.41
			02/05/18	NP	10.15	24.91	NM	666.24
MW-37	671.24	18-23	07/24/17	NP	8.14	24.75	NM	663.10
			11/06/17	NP	8.26	23.18	NM	662.98
			02/05/18	NP	8.33	22.80	NM	662.91
MW-38	671.79	15-20	04/17/17	NP	8.23	19.55	NM	663.56
			07/24/17	NP	8.69	23.69	NM	663.10
			11/06/17	NP	8.53	19.75	NM	663.26
			02/05/18	NP	8.67	19.65	NM	663.12
MW-39	672.19	19.5-24.5	04/19/17	NP	11.08	24.14	NM	661.11
			07/24/17	NP	11.41	23.92	NM	660.78
			11/06/17	NP	11.64	24.36	NM	660.55
			02/05/18	NP	11.63	24.30	NM	660.56
MW-40	670.65	15-20	05/09/16	NP	9.94	19.72	NM	660.71
			04/19/17	NP	9.98	19.72	NM	660.67
			07/24/17	NP	10.10	19.66	NM	660.55
			11/06/17	NP	10.58	19.75	NM	660.07
			02/05/18	NP	10.62	19.43	NM	660.03
MW-41	670.34	16-21	05/09/16	NP	8.20	20.97	NM	662.14
			04/19/17	NP	8.97	20.99	NM	661.37
			07/24/17	NP	9.39	20.78	NM	660.95
			11/06/17	NP	9.96	21.25	NM	660.38
			02/05/18	NP	9.75	20.85	NM	660.59
MW-42	670.10	16-21	05/09/16	NP	7.29	11.52	NM	662.81
			04/19/17	NP	8.01	20.48	NM	662.09
			07/24/17	NP	9.13	20.43	NM	660.97
			11/06/17	NP	9.76	20.77	NM	660.34
			02/05/18	NP	9.32	20.55	NM	660.78
MW-43	669.24	17-22	05/09/16	NP	6.34	21.85	NM	662.90
			04/19/17	NP	6.80	26.82	NM	662.44
			07/24/17	NP	8.34	21.79	NM	660.90
			11/06/17	NP	8.92	21.98	NM	660.32
			02/05/18	NP	8.42	21.80	NM	660.82

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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 Thickness (ft.)	Corrected Groundwater Elevation (ft. amsl)
MW-44	671.48	16-21	05/09/16	NP	6.59	17.42	NM	664.89
			04/19/17	NP	7.48	19.95	NM	664.00
			07/24/17	NP	8.38	20.93	NM	663.10
			11/06/17	NP	8.55	20.74	NM	662.93
			02/05/18	NP	8.51	20.90	NM	662.97
MW-45	670.83	15-20	05/09/16	NP	14.22	19.81	NM	656.61
			04/19/17	NP	11.45	19.67	NM	659.38
			07/24/17	NP	11.07	19.76	NM	659.76
			11/06/17	NP	9.82	19.75	NM	661.01
			02/05/18	NP	10.30	19.72	NM	660.53
MW-46	670.84	16-21	05/09/16	NP	8.42	20.45	NM	662.42
			04/19/17	NP	10.61	20.30	NM	660.23
			07/24/17	NP	10.33	19.78	NM	660.51
			11/06/17	NP	9.76	19.81	NM	661.08
			02/05/18	NP	10.20	19.81	NM	660.64
MW-47	671.33	16-21	05/09/16	NP	7.53	11.92	NM	663.80
			04/19/17	NP	9.88	20.76	NM	661.45
			07/24/17	NP	10.11	19.96	NM	661.22
			11/06/17	NP	9.87	19.98	NM	661.46
			02/05/18	NP	10.11	19.98	NM	661.22
MW-48	670.98	17-22	05/09/16	NP	6.33	21.76	NM	664.65
			04/19/17	NP	8.93	21.62	NM	662.05
			07/24/17	NP	9.70	20.42	NM	661.28
			11/06/17	NP	9.33	20.34	NM	661.65
			02/05/18	NP	10.08	20.35	NM	660.90
MW-49	669.07	12.5-17.5	05/12/16	NP	6.57	17.31	NM	662.50
			04/19/17	NP	7.03	17.31	NM	662.04
			07/24/17	NP	6.94	17.37	NM	662.13
			11/06/17	NM	NM	NM	NM	NM
			02/05/18	NP	7.32	17.44	NM	661.75
MW-50	670.16	16-21	05/09/16	NP	5.42	20.34	NM	664.74
			04/19/17	NP	6.77	20.23	NM	663.39
			07/24/17	NP	8.16	18.42	NM	662.00
			11/06/17	NP	8.15	18.81	NM	662.01
			02/05/18	NP	8.47	18.44	NM	661.69
MW-51	671.07	15-20	04/19/17	NP	6.12	19.04	NM	664.95
			07/24/17	NP	7.82	18.92	NM	663.25
			11/06/17	NP	7.58	18.91	NM	663.49
			02/05/18	NP	7.89	18.95	NM	663.18

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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 Thickness (ft.)	Corrected Groundwater Elevation (ft. amsl)
MW-52	669.16	15-20	05/09/16	NP	6.39	19.81	NM	662.77
			04/19/17	NP	6.59	19.76	NM	662.57
			07/24/17	NP	8.33	19.75	NM	660.83
			11/06/17	NP	8.87	19.83	NM	660.29
			02/05/18	NP	8.43	19.57	NM	660.73
MW-53	668.59	16-21	05/09/16	NP	6.05	20.85	NM	662.54
			04/18/17	NP	6.03	20.83	NM	662.56
			07/24/17	NP	7.92	20.63	NM	660.67
			11/06/17	NP	8.35	21.08	NM	660.24
			02/05/18	NP	7.98	20.68	NM	660.61
MW-54	668.49	16-21	04/19/17	NP	6.01	20.86	NM	662.48
			07/24/17	NP	8.08	20.52	NM	660.41
			11/06/17	NP	8.17	20.71	NM	660.32
			02/05/18	NP	7.96	20.56	NM	660.53
MW-55	670.04	15-20	04/19/17	NP	6.84	19.82	NM	663.20
			07/24/17	NP	8.95	19.56	NM	661.09
			11/06/17	NP	8.98	20.03	NM	661.06
			02/05/18	NP	8.78	19.64	NM	661.26
MW-56	670.26	16-21	04/19/17	NP	6.67	20.69	NM	663.59
			07/24/17	NP	8.18	20.58	NM	662.08
			11/06/17	NP	8.37	20.76	NM	661.89
			02/05/18	NP	8.08	20.59	NM	662.18
MW-57	668.93	17-22	04/19/17	NP	5.89	21.72	NM	663.04
			07/24/17	NP	7.83	21.63	NM	661.10
			11/06/17	NP	8.12	21.83	NM	660.81
			02/06/18	NP	7.86	21.80	NM	661.07
MW-58	668.73	15-20	05/09/16	NP	3.51	19.74	NM	665.22
			04/19/17	NP	4.28	19.72	NM	664.45
			07/24/17	NP	5.68	18.70	NM	663.05
			11/06/17	NP	5.78	19.69	NM	662.95
			02/05/18	NP	5.63	19.40	NM	663.10
MW-62	671.06	16.3-21.3	04/20/17	NP	7.89	21.13	NM	663.17
			07/24/17	NP	10.11	21.01	NM	660.95
			11/06/17	NP	9.43	21.14	NM	661.63
			02/05/18	NP	9.46	21.15	NM	661.60
MW-63	669.96	7-12	04/20/17	NP	7.32	11.75	NM	662.64
			07/24/17	NP	8.45	11.78	NM	661.51
			11/06/17	NP	8.18	11.80	NM	661.78
			02/05/18	NP	8.77	11.80	NM	661.19

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Livonia, Michigan

Well ID	TOC Elevation (ft. amsl) ⁽¹⁾	Screen Interval (ft. bgs)	Gauging Date	Depth to LNAPL (ft. btoc)	Depth to Water (ft. btoc)	Total Depth (ft.)	LNAPL Thickness (ft.)	Corrected Groundwater Elevation (ft. amsl)
MW-64	671.09	15-20	04/20/17	NP	8.55	21.1	NM	662.54
			07/24/17	NP	9.83	20.05	NM	661.26
			11/06/17	NP	10.20	20.36	NM	660.89
			02/06/18	NP	10.14	20.19	NM	660.95
MW-65	671.98	16-21	04/20/17	NP	8.26	21.18	NM	663.72
			07/24/17	NP	9.87	21.11	NM	662.11
			11/06/17	NP	9.68	21.11	NM	662.30
			02/05/18	NP	10.05	21.16	NM	661.93
MW-66	669.83	15-20	04/20/17	NP	6.55	19.49	NM	663.28
			07/24/17	NP	7.81	19.35	NM	662.02
			11/06/17	NP	7.51	19.23	NM	662.32
			02/05/18	NP	8.03	19.06	NM	661.80
MW-67	671.32	9-14	04/20/17	NP	9.44	13.97	NM	661.88
			07/24/17	NP	9.84	13.84	NM	661.48
			11/06/17	NP	9.76	14.01	NM	661.56
			02/05/18	NP	10.00	14.02	NM	661.32
MW-68	670.71	15-20	04/20/17	NP	9.39	21.85	NM	661.32
			07/24/17	NP	9.55	19.86	NM	661.16
			11/06/17	NP	9.51	19.85	NM	661.20
			02/05/18	NP	9.68	19.85	NM	661.03
MW-69	670.27	15-20	04/20/17	NP	9.71	19.91	NM	660.56
			07/24/17	NP	NM	NM	NM	NM
			11/06/17	NP	9.91	19.98	NM	660.36
			02/05/18	NP	9.78	20.01	NM	660.49
MW-70	671.36	15-20	04/20/17	NP	11.46	20.14	NM	659.90
			07/24/17	NP	11.02	20.18	NM	660.34
			11/06/17	NP	10.23	20.15	NM	661.13
			02/05/18	NP	10.74	20.12	NM	660.62
MW-71	671.04	15-20	04/20/17	NP	12.45	20.16	NM	658.59
			07/24/17	NP	11.84	20.22	NM	659.20
			11/06/17	NP	10.74	20.21	NM	660.30
			02/05/18	NP	11.13	20.18	NM	659.91
PW-16-01	670.23	9.7-19.7	07/24/17	NP	9.04	21.58	NM	661.19
			11/06/17	NP	8.45	21.58	NM	661.78
			02/05/18	NP	8.70	21.62	NM	661.53
PW-16-02	669.97	6-21	07/24/17	NP	6.77	8.36	NM	663.20
			11/06/17	NP	6.54	23.79	NM	663.43
			02/05/18	NP	6.65	24.55	NM	663.32

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Table 1
On-Site Groundwater Elevations
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36200 Plymouth Road
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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 Thickness (ft.)	Corrected Groundwater Elevation (ft. amsl)
TW-16-01	669.53	12-17	07/24/17	NP	8.36	16.80	NM	661.17
			11/06/17	NP	7.68	16.64	NM	661.85
			02/05/18	NP	7.91	16.87	NM	661.62
TW-16-02	669.43	12-17	04/20/17	NP	4.48	18.85	NM	664.95
			07/24/17	NP	8.00	17.14	NM	661.43
			11/06/17	NP	7.48	17.17	NM	661.95
			02/05/18	NP	7.71	17.15	NM	661.72
TW-16-03	669.34	9-19	07/24/17	NP	6.10	18.65	NM	663.24
			11/06/17	NP	6.00	18.65	NM	663.34
			02/05/18	NP	6.05	18.75	NM	663.29
TW-16-04	669.80	9-19	04/20/17	NP	4.90	19.02	NM	664.90
			07/24/17	NP	6.46	18.93	NM	663.34
			11/06/17	NP	6.36	18.93	NM	663.44
			02/05/18	NP	6.43	18.73	NM	663.37

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⁾ Arcadis plans to evaluate the monitoring well and determine if maintenance or repairs can be made in 1Q 2018.

⁽³⁾ Arcadis plans to use available technologies to locate the monitoring well in 1Q 2018.

⁽⁴⁾ MW-1 submerged under water during the 1Q 2018 sampling event.

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

** Unable to calculate a corrected groundwater elevation due 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
NM	Not measured
NP	No product detected
TOC	Top of casing

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-1			MW-2				MW-3			
				14-19			15.5-20.5				14-19			
				4/26/2017	7/28/2017	11/10/2017	4/27/2017	8/3/2017	11/9/2017	2/13/2018	4/27/2017	8/3/2017	11/9/2017	2/13/2018
Semi-volatile Organic Compounds (SVOCs)														
1,4-Dioxane	µg/L	37	2,800	< 2.0	< 2.0	< 2.0	1.5 J	1.8 J	4.5	4.4	0.67 J	0.79 J	0.57 J	< 2.0
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/L	130	ID	< 5.0	< 5.0	< 5.0	< 130	< 250	< 330	< 330	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	1.0 J	< 10	< 250	< 500	< 670	< 670	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 250	< 500	< 670	< 670	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	4.0 J	< 10	< 250	< 500	< 670	< 670	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 130	< 250	< 330	< 330	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	< 1.0	< 1.0	< 1.0	630	1,200	1,000	1,400	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 130	< 250	< 330	< 330	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 50	< 100	< 130	< 130	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 250	< 500	< 670	< 670	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 250	< 500	< 670	< 670	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-1			MW-2				MW-3			
				14-19			15.5-20.5				14-19			
				4/26/2017	7/28/2017	11/10/2017	4/27/2017	8/3/2017	11/9/2017	2/13/2018	4/27/2017	8/3/2017	11/9/2017	2/13/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 50	< 100	< 130	< 130	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 1.0	< 1.0	< 1.0	200	270	260	390	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 25	< 50	< 67	< 67	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	13	< 1.0	< 1.0	< 1.0	200	160	140	210	< 1.0	< 1.0	< 1.0	< 1.0
Gases														
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other														
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals														
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-4				MW-5			MW-7		
				15.5-20.5				15.5-20.5			18-23		
				4/27/2017	8/3/2017	11/9/2017	2/13/2018	8/3/2017	11/9/2017	2/13/2018	7/31/2017	11/10/2017	2/12/2018
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	µg/L	37	2,800	1.1 J	0.78 J	< 20	0.38 J	0.35 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	µg/L	200	89	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/L	130	ID	< 5,000	< 5,000	< 5,000	< 8,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10,000	< 10,000	< 10,000	< 17,000	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10,000	< 10,000	< 10,000	< 17,000	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10,000	< 10,000	< 10,000	< 17,000	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5,000	< 5,000	< 5,000	< 8,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	32,000	27,000	21,000	26,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5,000	< 5,000	< 5,000	< 8,300	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2,000	< 2,000	< 2,000	< 3,300	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10,000	< 10,000	< 10,000	< 17,000	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10,000	< 10,000	< 10,000	< 17,000	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-4				MW-5			MW-7		
				15.5-20.5				15.5-20.5			18-23		
				4/27/2017	8/3/2017	11/9/2017	2/13/2018	8/3/2017	11/9/2017	2/13/2018	7/31/2017	11/10/2017	2/12/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2,000	< 2,000	< 2,000	< 3,300	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	1,200	1,100	850 J	1,100 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 1,000	< 1,000	< 1,000	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	21,000	18,000	19,000	23,000	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	13	570 J	640 J	470 J	< 1,700	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases													
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other													
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-9			MW-10				MW-14		
				19.5-24.5			16.5-21.5				15-20		
				7/28/2017	11/10/2017	2/12/2018	4/27/2017	8/4/2017	11/9/2017	2/13/2018	7/28/2017	11/10/2017	2/12/2018
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	µg/L	37	2,800	8.6	11	12	5.9	4.5	5.6	4.4	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/L	130	ID	< 5.0	< 5.0	< 5.0	< 250	< 330	< 500	< 1,000	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 250	< 330	< 500	< 1,000	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 250	< 330	< 500	< 1,000	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 100	< 130	< 200	< 400	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 500	< 670	< 1,000	< 2,000	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-9			MW-10				MW-14		
				19.5-24.5			16.5-21.5				15-20		
				7/28/2017	11/10/2017	2/12/2018	4/27/2017	8/4/2017	11/9/2017	2/13/2018	7/28/2017	11/10/2017	2/12/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 100	< 130	< 200	< 400	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 50	< 67	< 100	< 200	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	13	5.5	7.1	4.6	1,200	2,100	2,000	1,900	< 1.0	< 1.0	< 1.0
Gases													
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other													
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-15-59D				MW-15-60D				MW-15-61D			
				94-99				93-98				88-93			
				4/26/2017	8/1/2017	11/15/2017	2/6/2018	4/26/2017	8/1/2017	11/15/2017	2/6/2018	4/26/2017	8/1/2017	11/15/2017	2/6/2018
Semi-volatile Organic Compounds (SVOCs)															
1,4-Dioxane	µg/L	37	2,800	NA	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 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	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.57 J	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	1.6 J	< 5.0	< 5.0	< 5.0	0.51 J	< 5.0	< 5.0	< 5.0	0.91 J	0.58 J	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 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	620	< 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	NA	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
Cyclohexane	µg/L	NA	ID	0.86 J	0.58 J	0.62 J	0.76 J	< 1.0	< 1.0	< 1.0	< 1.0	0.48 J	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.50 J	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	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

See Notes on Last Page.

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-15-59D				MW-15-60D				MW-15-61D			
				94-99				93-98				88-93			
				4/26/2017	8/1/2017	11/15/2017	2/6/2018	4/26/2017	8/1/2017	11/15/2017	2/6/2018	4/26/2017	8/1/2017	11/15/2017	2/6/2018
Methyl-tert-butylether	µg/L	40	7,100	< 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
Styrene (Monomer)	µg/L	100	80	< 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	60	< 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	270	0.35 J	0.46 J	0.30 J	0.31 J	< 1.0	0.33 J	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	0.25 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 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	NA	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
Trichloroethene	µg/L	5.0	200	< 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	13	< 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	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other															
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals															
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-18				MW-19		MW-20			MW-21
				13-18				15-20		13.5-18.5			13.5-18.5
				4/21/2017	7/28/2017	11/10/2017	2/14/2018	11/14/2017	2/14/2018	7/31/2017	11/10/2017	2/12/2018	2/13/2018
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	µg/L	37	2,800	< 2.0	< 2.0	< 2.0	< 2.0	120	130	< 2.0	< 2.0	< 2.0	25
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	6.3	4.8	< 1.0	< 1.0	< 1.0	< 1,000
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,2,3-Trimethylbenzene	µg/L	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	0.49 J	0.52 J	< 1.0	< 1.0	< 1.0	< 1,000
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.81 J	< 10,000
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	2.2 J	< 10,000
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	8.9	6.5	< 1.0	< 1.0	< 1.0	< 1,000
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Chloromethane	µg/L	1,100	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
cis-1,2-Dichloroethene	µg/L	70	620	< 1.0	< 1.0	< 1.0	< 1.0	1.1	0.94 J	< 1.0	< 1.0	< 1.0	20,000
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2,000
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10,000
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-18				MW-19		MW-20			MW-21
				13-18				15-20		13.5-18.5			13.5-18.5
				4/21/2017	7/28/2017	11/10/2017	2/14/2018	11/14/2017	2/14/2018	7/31/2017	11/10/2017	2/12/2018	2/13/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Styrene (Monomer)	µg/L	100	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Tetrachloroethene	µg/L	5.0	60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2,000
trans-1,2-Dichloroethene	µg/L	100	1,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
trans-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000
Trichloroethene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	1.1	1.0	< 1.0	< 1.0	< 1.0	460 J
Vinyl chloride	µg/L	2.0	13	< 1.0	< 1.0	< 1.0	< 1.0	1.8	1.5	< 1.0	< 1.0	< 1.0	5,400
Gases													
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other													
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-22				MW-23			MW-24			
				16.5-21.5				15-20			19-24			
				4/25/2017	8/2/2017	11/7/2017	2/6/2018	8/3/2017	11/7/2017	2/6/2018	4/26/2017	8/2/2017	11/10/2017	2/14/2018
Semi-volatile Organic Compounds (SVOCs)														
1,4-Dioxane	µg/L	37	2,800	32	26	49	22	0.50 J	< 20	< 20	< 2.0	0.26 J	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	µg/L	200	89	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/L	130	ID	< 310	< 500	< 250	< 710	< 5,000	< 10,000	< 5,000	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 630	< 1,000	< 500	< 1,400	< 10,000	< 20,000	< 10,000	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 630	< 1,000	< 500	< 1,400	< 10,000	< 20,000	< 10,000	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 630	< 1,000	< 500	< 1,400	< 10,000	< 20,000	< 10,000	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 310	< 500	< 250	< 710	< 5,000	< 10,000	< 5,000	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	130	210	25 J	200	21,000	78,000	33,000	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	NA	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	140 J	< 500	< 250	120 J	< 5,000	< 10,000	750 J	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 130	< 200	< 100	< 290	< 2,000	< 4,000	< 2,000	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 630	< 1,000	< 500	< 1,400	< 10,000	< 20,000	< 10,000	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 630	< 1,000	< 500	< 1,400	< 10,000	< 20,000	< 10,000	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-22				MW-23			MW-24			
				16.5-21.5				15-20			19-24			
				4/25/2017	8/2/2017	11/7/2017	2/6/2018	8/3/2017	11/7/2017	2/6/2018	4/26/2017	8/2/2017	11/10/2017	2/14/2018
Methyl-tert-butylether	µg/L	40	7,100	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 130	< 200	< 100	< 290	< 2,000	< 4,000	< 2,000	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 63	< 100	< 50	< 140	1,200	4,100	1,800	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 63	< 100	< 50	< 140	< 1,000	< 2,000	< 1,000	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 63	< 100	< 50	< 140	5,300	25,000	11,000	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	13	2,300	2,100	1,600	1,500	1,100	2,400	820 J	< 1.0	< 1.0	< 1.0	< 1.0
Gases														
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other														
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals														
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-25				MW-26		MW-28		
				16-21				4.5-14.5		2-12		
				4/21/2017	8/2/2017	11/14/2017	2/13/2018	8/4/2017	11/14/2017	8/3/2017	11/8/2017	2/7/2018
Semi-volatile Organic Compounds (SVOCs)												
1,4-Dioxane	µg/L	37	2,800	0.75 J	1.1 J	0.86 J	0.68 J	0.25 J	< 2.0	0.44 J	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)												
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	28	26	25
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	14	12	10
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.71 J	1.6	0.90 J
1,2,3-Trimethylbenzene	µg/L	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 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	620	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	0.91 J	0.50 J
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-25				MW-26		MW-28		
				16-21				4.5-14.5		2-12		
				4/21/2017	8/2/2017	11/14/2017	2/13/2018	8/4/2017	11/14/2017	8/3/2017	11/8/2017	2/7/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.68 J	0.59 J	0.45 J
Vinyl chloride	µg/L	2.0	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases												
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other												
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals												
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-29				MW-30				MW-31			
				5-15				19-24				17-22			
				4/26/2017	8/4/2017	11/14/2017	2/14/2018	4/25/2017	7/27/2017	11/9/2017	2/13/2018	4/21/2017	7/28/2017	11/10/2017	2/14/2018
Semi-volatile Organic Compounds (SVOCs)															
1,4-Dioxane	µg/L	37	2,800	1.4 J	3.8	9.0	0.90 J	10	11	13	12	< 2.0	0.47 J	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 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	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 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	620	< 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	NA	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
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	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

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-29				MW-30				MW-31			
				5-15				19-24				17-22			
				4/26/2017	8/4/2017	11/14/2017	2/14/2018	4/25/2017	7/27/2017	11/9/2017	2/13/2018	4/21/2017	7/28/2017	11/10/2017	2/14/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 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	60	< 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	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 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	NA	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
Trichloroethene	µg/L	5.0	200	< 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	13	< 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
Gases															
Ethane	µg/L	NS	NS	NA	NA	NA	NA	< 0.50	NA	0.31 J	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	< 0.50	NA	< 1.0	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	65	NA	360	NA	NA	NA	NA	NA
Other															
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	2.6	NA	2.5	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	< 1.0	NA	< 0.10	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	52	NA	53	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	2.1	NA	2.4	NA	NA	NA	NA	NA
Metals															
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	< 100	NA	3,700	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	630	NA	3,700	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	77	NA	150	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	70	NA	150	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-32			MW-33			MW-34			
				18-23			14-19			16.5-21.5			
				7/28/2017	11/7/2017	2/12/2018	7/28/2017	11/8/2017	2/14/2018	4/24/2017	7/27/2017	11/9/2017	2/13/2018
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	µg/L	37	2,800	0.28 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	8.3	6.1	6.6	7.4
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 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	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 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	620	< 1.0	0.31 J	0.37 J	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J	0.35 J	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-32			MW-33			MW-34			
				18-23			14-19			16.5-21.5			
				7/28/2017	11/7/2017	2/12/2018	7/28/2017	11/8/2017	2/14/2018	4/24/2017	7/27/2017	11/9/2017	2/13/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 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	60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 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	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 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	13	< 1.0	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	0.52 J	1.5	2.0	0.97 J
Gases													
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other													
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-35			MW-36			MW-37		
				19.5-24.5			20-25			18-23		
				7/27/2017	11/7/2017	2/14/2018	7/28/2017	11/10/2017	2/15/2018	8/1/2017	11/10/2017	2/12/2018
Semi-volatile Organic Compounds (SVOCs)												
1,4-Dioxane	µg/L	37	2,800	4.9	4.6	4.3	< 2.0	< 2.0	< 2.0	0.37 J	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)												
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/L	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 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	620	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-35			MW-36			MW-37		
				19.5-24.5			20-25			18-23		
				7/27/2017	11/7/2017	2/14/2018	7/28/2017	11/10/2017	2/15/2018	8/1/2017	11/10/2017	2/12/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	13	3.5	2.4	4.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Gases												
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other												
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals												
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-38				MW-39				MW-40	
				15-20				20-25				20-25	
				4/26/2017	7/28/2017	11/8/2017	2/15/2018	4/26/2017	7/28/2017	11/7/2017	2/15/2018	7/28/2017	11/15/2017
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	µg/L	37	2,800	< 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	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 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	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 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	620	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.7	3.2
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-38				MW-39				MW-40	
				15-20				20-25				20-25	
				4/26/2017	7/28/2017	11/8/2017	2/15/2018	4/26/2017	7/28/2017	11/7/2017	2/15/2018	7/28/2017	11/15/2017
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 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	60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	0.48 J
trans-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 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	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.77 J	1.8
Gases													
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other													
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-41				MW-42				MW-43			
				16-21				16-21				17-22			
				4/24/2017	7/27/2017	11/9/2017	2/13/2018	4/24/2017	7/27/2017	11/9/2017	2/13/2018	4/27/2017	7/27/2017	11/9/2017	2/13/2018
Semi-volatile Organic Compounds (SVOCs)															
1,4-Dioxane	µg/L	37	2,800	1.9 J	1.4 J	2.2	0.77 J	1.3 J	1.8 J	2.4	1.8 J	3.6	3.5	3.5	2.2
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 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	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 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	620	1.9	1.8	2.3	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	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
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	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

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-41				MW-42				MW-43			
				16-21				16-21				17-22			
				4/24/2017	7/27/2017	11/9/2017	2/13/2018	4/24/2017	7/27/2017	11/9/2017	2/13/2018	4/27/2017	7/27/2017	11/9/2017	2/13/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 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	60	< 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	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 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	NA	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
Trichloroethene	µg/L	5.0	200	< 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	13	3.2	1.9	2.4	2.1	0.81 J	0.99 J	1.0	0.81 J	8.4	3.0	2.2	8.0
Gases															
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	0.48 J	NA	0.74 J	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.50	NA	0.27 J	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	190	NA	210	NA
Other															
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	4.4	NA	4.3	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	< 0.50	NA	< 0.20	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	220	NA	260	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	4	NA	4.3	NA
Metals															
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	1,700	NA	2,800	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	2,500	NA	3,900	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	210	NA	190	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	210	NA	200	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-44				MW-45				MW-46			
				16-21				15-20				16-21			
				4/25/2017	8/2/2017	11/7/2017	2/6/2018	4/24/2017	8/1/2017	11/13/2017	2/12/2018	4/24/2017	7/31/2017	11/13/2017	2/12/2018
Semi-volatile Organic Compounds (SVOCs)															
1,4-Dioxane	µg/L	37	2,800	12	7.1	12	9.0	4.1	2.5	< 2.0	< 2.0	21	0.83 J	3.7	11
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	µg/L	200	89	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	1.9 J	2.8	3.6	2.4
1,1-Dichloroethene	µg/L	7.0	130	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	0.78 J	0.90 J	0.46 J
1,2,3-Trimethylbenzene	µg/L	130	ID	< 31	< 50	< 100	< 33	< 2,500	< 2,500	< 330	< 500	< 25	< 5.0	< 13	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	0.55 J
1,2-Dichloropropane	µg/L	5.0	230	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 63	< 100	< 200	< 67	< 5,000	< 5,000	< 670	< 1,000	< 50	< 10	< 25	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 63	< 100	< 200	< 67	< 5,000	< 5,000	< 670	< 1,000	< 50	< 10	< 25	< 10
Acetone	µg/L	2,100	1,700	< 63	< 100	< 200	< 67	< 5,000	< 5,000	< 670	< 1,000	< 50	< 10	< 25	< 10
Benzene	µg/L	5.0	200	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Bromodichloromethane	µg/L	80	ID	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Bromoform	µg/L	80	ID	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Bromomethane	µg/L	29	35	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 31	< 50	< 100	< 33	< 2,500	< 2,500	< 330	< 500	< 25	< 5.0	< 13	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
CFC-11	µg/L	7,300	ID	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
CFC-12	µg/L	4,800	ID	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Chlorobenzene	µg/L	100	25	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Chloroethane	µg/L	1,700	1,100	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Chloroform	µg/L	80	350	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Chloromethane	µg/L	1,100	ID	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	< 6.3	< 10	< 20	< 6.7	10,000	8,100	2,100	1,800	21	15	22	14
cis-1,3-Dichloropropene	µg/L	NA	NA	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Cyclohexane	µg/L	NA	ID	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Dichloromethane	µg/L	5.0	1,500	8.3 J	< 50	18 J	4.1 J	330 J	< 2,500	< 330	< 500	4.1 J	< 5.0	< 13	< 5.0
Diethyl ether	µg/L	10	ID	< 13	< 20	< 40	< 13	< 1,000	< 1,000	< 130	< 200	< 10	< 2.0	< 5.0	< 2.0
Ethylbenzene	µg/L	74	18	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Methyl Acetate	µg/L	NA	NA	< 63	< 100	< 200	< 67	< 5,000	< 5,000	< 670	< 1,000	< 50	< 10	< 25	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 63	< 100	< 200	< 67	< 5,000	< 5,000	< 670	< 1,000	< 50	< 10	< 25	< 10
Methylcyclohexane	µg/L	NA	NA	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0

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Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-44				MW-45				MW-46			
				16-21				15-20				16-21			
				4/25/2017	8/2/2017	11/7/2017	2/6/2018	4/24/2017	8/1/2017	11/13/2017	2/12/2018	4/24/2017	7/31/2017	11/13/2017	2/12/2018
Methyl-tert-butylether	µg/L	40	7,100	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Styrene (Monomer)	µg/L	100	80	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	7.9	< 1.0	< 2.5	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Toluene	µg/L	790	270	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Total Xylenes	µg/L	280	41	< 13	< 20	< 40	< 13	< 1,000	< 1,000	< 130	< 200	< 10	< 2.0	< 5.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	1.6 J	2.6	2.7	1.7
trans-1,3-Dichloropropene	µg/L	NA	NA	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Trichloroethene	µg/L	5.0	200	< 6.3	< 10	< 20	< 6.7	< 500	< 500	< 67	< 100	< 5.0	< 1.0	< 2.5	< 1.0
Vinyl chloride	µg/L	2.0	13	230	380	520	210	7,600	5,400	1,500	1,200	150	13	57	38
Gases															
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other															
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals															
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-47			MW-48				MW-49		
				16-21			17-22				12.5-17.5		
				4/24/2017	7/31/2017	11/10/2017	4/21/2017	8/1/2017	11/14/2017	2/12/2018	4/21/2017	7/28/2017	2/13/2018
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	µg/L	37	2,800	0.72 J	0.62 J	0.52 J	< 2.0	9.5	2.1	7.7	12	9.4	7.0
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	µg/L	200	89	< 5.0	2.2 J	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,1,2-Trichloroethane	µg/L	5.0	330	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,1-Dichloroethane	µg/L	2,500	740	3.7 J	3.5 J	4.6 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,1-Dichloroethene	µg/L	7.0	130	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,2,3-Trimethylbenzene	µg/L	130	ID	< 25	< 20	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 10,000	< 5,000	< 8,300
1,2,4-Trichlorobenzene	µg/L	70	99	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,2,4-Trimethylbenzene	µg/L	63	17	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,2-Dibromoethane	µg/L	0.05	5.7	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,2-Dichlorobenzene	µg/L	600	13	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,2-Dichloroethane	µg/L	5.0	360	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,2-Dichloropropane	µg/L	5.0	230	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,3,5-Trimethylbenzene	µg/L	72	45	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,3-Dichlorobenzene	µg/L	19	28	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
1,4-Dichlorobenzene	µg/L	75	17	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
-2Butanone (MEK)	µg/L	38,000	2,200	< 50	< 40	< 100	< 10	< 10	< 10	< 10	< 20,000	< 10,000	< 17,000
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 50	< 40	< 100	< 10	< 10	< 10	< 10	< 20,000	< 10,000	< 17,000
Acetone	µg/L	2,100	1,700	< 50	< 40	< 100	< 10	< 10	5.1 J	< 10	< 20,000	< 10,000	< 17,000
Benzene	µg/L	5.0	200	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Bromodichloromethane	µg/L	80	ID	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Bromoform	µg/L	80	ID	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Bromomethane	µg/L	29	35	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Carbon Disulfide	µg/L	2,300	ID	< 25	< 20	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 10,000	< 5,000	< 8,300
Carbon Tetrachloride	µg/L	5.0	45	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
CFC-11	µg/L	7,300	ID	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
CFC-12	µg/L	4,800	ID	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Chlorobenzene	µg/L	100	25	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Chlorodibromomethane	µg/L	80	ID	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Chloroethane	µg/L	1,700	1,100	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Chloroform	µg/L	80	350	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Chloromethane	µg/L	1,100	ID	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
cis-1,2-Dichloroethene	µg/L	70	620	69	69	79	< 1.0	< 1.0	< 1.0	< 1.0	43,000	29,000	20,000
cis-1,3-Dichloropropene	µg/L	NA	NA	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Cyclohexane	µg/L	NA	ID	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Dichloromethane	µg/L	5.0	1,500	3.4 J	< 20	< 50	< 5.0	< 5.0	< 5.0	< 5.0	1,100 J	< 5,000	< 8,300
Diethyl ether	µg/L	10	ID	< 10	< 8.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4,000	< 2,000	< 3,300
Ethylbenzene	µg/L	74	18	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Isopropylbenzene	µg/L	2,300	28	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Methyl Acetate	µg/L	NA	NA	< 50	< 40	< 100	< 10	< 10	< 10	< 10	< 20,000	< 10,000	< 17,000
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 50	< 40	< 100	< 10	< 10	< 10	< 10	< 20,000	< 10,000	< 17,000
Methylcyclohexane	µg/L	NA	NA	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-47			MW-48				MW-49		
				16-21			17-22				12.5-17.5		
				4/24/2017	7/31/2017	11/10/2017	4/21/2017	8/1/2017	11/14/2017	2/12/2018	4/21/2017	7/28/2017	2/13/2018
Methyl-tert-butylether	µg/L	40	7,100	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Styrene (Monomer)	µg/L	100	80	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Tetrachloroethene	µg/L	5.0	60	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Toluene	µg/L	790	270	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Total Xylenes	µg/L	280	41	< 10	< 8.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4,000	< 2,000	< 3,300
trans-1,2-Dichloroethene	µg/L	100	1,500	7.1	8.6	9.3 J	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
trans-1,3-Dichloropropene	µg/L	NA	NA	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Trichloroethene	µg/L	5.0	200	< 5.0	< 4.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2,000	< 1,000	< 1,700
Vinyl chloride	µg/L	2.0	13	120	110	220	0.85 J	11	5.2	3.8	10,000	9,800	8,400
Gases													
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other													
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-50				MW-51				MW-52		
				16-21				15-20				15-20		
				4/21/2017	7/31/2017	11/13/2017	2/12/2018	4/25/2017	8/3/2017	11/9/2017	2/8/2018	7/27/2017	11/10/2017	2/13/2018
Semi-volatile Organic Compounds (SVOCs)														
1,4-Dioxane	µg/L	37	2,800	1.5 J	2.2	0.68 J	0.78 J	0.75 J	1.2 J	1.1 J	1.1 J	1.3 J	0.68 J	1.2 J
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	µg/L	200	89	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 5.0	< 4.0	< 5.0	< 5.0	0.41 J	0.72 J	0.70 J	0.84 J	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/L	130	ID	< 25	< 20	< 25	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 50	< 40	< 50	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 50	< 40	< 50	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 50	< 40	< 50	< 50	< 10	< 10	< 10	< 10	2.2 J	< 10	< 10
Benzene	µg/L	5.0	200	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 25	< 20	< 25	< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	13	15	23	22	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 25	< 20	< 25	3.5 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 10	< 8.0	< 10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 50	< 40	< 50	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 50	< 40	< 50	< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-50				MW-51				MW-52		
				16-21				15-20				15-20		
				4/21/2017	7/31/2017	11/13/2017	2/12/2018	4/25/2017	8/3/2017	11/9/2017	2/8/2018	7/27/2017	11/10/2017	2/13/2018
Methyl-tert-butylether	µg/L	40	7,100	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 10	< 8.0	< 10	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 5.0	< 4.0	< 5.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	13	48	140	150	76	0.57 J	0.97 J	0.47 J	< 1.0	7.0	9.1	4.0
Gases														
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other														
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals														
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-53				MW-54			MW-55		
				16-21				16-21			15-20		
				4/24/2017	7/27/2017	11/8/2017	2/7/2018	7/27/2017	11/8/2017	2/7/2018	7/27/2017	11/8/2017	2/7/2018
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	µg/L	37	2,800	1.1 J	2.0	0.61 J	1.1 J	1.5 J	2.0	2.7	1.2 J	1.4 J	0.96 J
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 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	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 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	620	< 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	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-53				MW-54			MW-55		
				16-21				16-21			15-20		
				4/24/2017	7/27/2017	11/8/2017	2/7/2018	7/27/2017	11/8/2017	2/7/2018	7/27/2017	11/8/2017	2/7/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 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	60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 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	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 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	13	< 1.0	0.63 J	< 1.0	< 1.0	0.88 J	1.5	1.2	0.84 J	0.65 J	< 1.0
Gases													
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other													
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-56				MW-57			MW-58		
				16-21				17-22			15-20		
				4/24/2017	7/28/2017	11/8/2017	2/14/2018	7/27/2017	11/7/2017	2/9/2018	7/28/2017	11/8/2017	2/7/2018
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	µg/L	37	2,800	3.8	2.7	2.2	1.6 J	4.6	4.9	4.9	10	8.0	9.6
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 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	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	1.8 J	< 10	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 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	620	< 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	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-56				MW-57			MW-58		
				16-21				17-22			15-20		
				4/24/2017	7/28/2017	11/8/2017	2/14/2018	7/27/2017	11/7/2017	2/9/2018	7/28/2017	11/8/2017	2/7/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 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	60	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 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	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 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	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.59 J	< 1.0	< 1.0	< 1.0
Gases													
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other													
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-62				MW-63				
				16.3-21.3				7-12				
				4/21/2017	7/31/2017	11/13/2017	2/6/2018	4/21/2017	5/25/2017	7/31/2017	11/13/2017	2/7/2018
Semi-volatile Organic Compounds (SVOCs)												
1,4-Dioxane	µg/L	37	2,800	2.8	3.7	3.7	2.1	19	NA	0.36 J	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)												
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,2,3-Trimethylbenzene	µg/L	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000	< 5,000	< 500	< 50	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000	< 5,000	< 500	< 50	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Chloromethane	µg/L	1,100	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	1.6	< 1.0	0.30 J	0.30 J	< 1,000	< 1,000	< 100	< 10	1.7
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 5,000	< 5,000	< 500	< 50	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 2,000	< 2,000	< 200	< 20	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	5.6 J	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 10,000	< 10,000	< 1,000	< 100	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-62				MW-63				
				16.3-21.3				7-12				
				4/21/2017	7/31/2017	11/13/2017	2/6/2018	4/21/2017	5/25/2017	7/31/2017	11/13/2017	2/7/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Styrene (Monomer)	µg/L	100	80	< 1.0	< 1.0	< 1.0	< 1.0	13,000	13,000	3,900	320	0.23 J
Tetrachloroethene	µg/L	5.0	60	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 2,000	< 2,000	< 200	< 20	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Trichloroethene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1,000	< 1,000	< 100	< 10	< 1.0
Vinyl chloride	µg/L	2.0	13	1.3	< 1.0	1.0	1.3	< 1,000	< 1,000	< 100	< 10	< 1.0
Gases												
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other												
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals												
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-64				MW-65				MW-66			
				15-20				16-21				15-20			
				4/24/2017	7/27/2017	11/7/2017	2/9/2018	4/25/2017	8/2/2017	11/8/2017	2/6/2018	4/25/2017	8/2/2017	11/13/2017	2/12/2018
Semi-volatile Organic Compounds (SVOCs)															
1,4-Dioxane	µg/L	37	2,800	< 2.0	0.32 J	< 2.0	< 2.0	3.8	3.1	3.8	3.4	0.76 J	0.99 J	0.49 J	1.3 J
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	µg/L	200	89	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/L	130	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 20	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 10	< 10	< 10	< 10
Benzene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 20	< 10	< 10	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	< 1.0	0.37 J	0.31 J	0.30 J	3.3	4.1	3.9	4.1	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 20	< 10	1.5 J	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 8.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 10	< 10	< 10	< 10	< 20	< 40	< 20	< 20	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Last Page.

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-64				MW-65				MW-66			
				15-20				16-21				15-20			
				4/24/2017	7/27/2017	11/7/2017	2/9/2018	4/25/2017	8/2/2017	11/8/2017	2/6/2018	4/25/2017	8/2/2017	11/13/2017	2/12/2018
Methyl-tert-butylether	µg/L	40	7,100	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 8.0	< 4.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 4.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	13	2.4	4.8	7.0	6.7	61	49	48	36	5.6	5.4	3.0	2.7
Gases															
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other															
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals															
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-67				MW-68				MW-69		
				9-14				15-20				15-20		
				4/21/2017	7/31/2017	11/14/2017	2/12/2018	4/24/2017	8/1/2017	11/10/2017	2/12/2018	4/25/2017	11/10/2017	2/14/2018
Semi-volatile Organic Compounds (SVOCs)														
1,4-Dioxane	µg/L	37	2,800	1.8 J	0.33 J	< 2.0	< 2.0	0.40 J	0.69 J	0.73 J	0.54 J	12	35	23
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	µg/L	200	89	2.3 J	2.0 J	2.1 J	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/L	5.0	330	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/L	2,500	740	< 10	1.0 J	< 5.0	< 3.3	1.6	1.7	3.7	2.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/L	7.0	130	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	µg/L	130	ID	< 50	< 20	< 25	< 17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	µg/L	70	99	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/L	63	17	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/L	0.05	5.7	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/L	600	13	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/L	5.0	360	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/L	5.0	230	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/L	72	45	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/L	19	28	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/L	75	17	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
-2Butanone (MEK)	µg/L	38,000	2,200	< 100	< 40	< 50	< 33	< 10	< 10	< 10	< 10	< 10	< 10	< 10
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 100	< 40	< 50	< 33	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	µg/L	2,100	1,700	< 100	< 40	< 50	< 33	< 10	< 10	< 10	< 10	4.4 J	< 10	< 10
Benzene	µg/L	5.0	200	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/L	80	ID	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	µg/L	80	ID	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/L	29	35	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	µg/L	2,300	ID	< 50	< 20	< 25	< 17	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	µg/L	5.0	45	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-11	µg/L	7,300	ID	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
CFC-12	µg/L	4,800	ID	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/L	100	25	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	µg/L	80	ID	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/L	1,700	1,100	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	µg/L	80	350	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	µg/L	1,100	ID	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	47	36	15	9.6	20	18	13	13	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	µg/L	NA	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	µg/L	NA	ID	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/L	5.0	1,500	< 50	< 20	< 25	1.8 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	µg/L	10	ID	< 20	< 8.0	< 10	< 6.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	µg/L	74	18	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/L	2,300	28	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	µg/L	NA	NA	< 100	< 40	< 50	< 33	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 100	< 40	< 50	< 33	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	µg/L	NA	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-67				MW-68				MW-69		
				9-14				15-20				15-20		
				4/21/2017	7/31/2017	11/14/2017	2/12/2018	4/24/2017	8/1/2017	11/10/2017	2/12/2018	4/25/2017	11/10/2017	2/14/2018
Methyl-tert-butylether	µg/L	40	7,100	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	µg/L	100	80	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/L	790	270	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Total Xylenes	µg/L	280	41	< 20	< 8.0	< 10	< 6.7	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
trans-1,2-Dichloroethene	µg/L	100	1,500	< 10	2.4 J	1.7 J	1.1 J	1.9	1.9	1.5	1.8	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	µg/L	NA	NA	< 10	< 4.0	< 5.0	< 3.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	5.0	200	94	91	110	83	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	2.0	13	14	< 4.0	< 5.0	< 3.3	12	2.1	18	2.5	2.8	< 1.0	< 1.0
Gases														
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other														
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals														
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-70				MW-71				PW-16-01		
				15-20				15-20				9.7-19.7		
				4/24/2017	8/1/2017	11/13/2017	2/12/2018	4/24/2017	8/1/2017	11/13/2017	2/12/2018	8/2/2017	11/7/2017	2/7/2018
Semi-volatile Organic Compounds (SVOCs)														
1,4-Dioxane	µg/L	37	2,800	0.76 J	0.68 J	1.1 J	0.91 J	4.3	1.4 J	0.72 J	0.57 J	< 2.0	14	0.76 J
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	µg/L	200	89	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,1,2-Trichloroethane	µg/L	5.0	330	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,1-Dichloroethane	µg/L	2,500	740	2.4 J	3.3 J	3.4 J	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,1-Dichloroethene	µg/L	7.0	130	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,2,3-Trimethylbenzene	µg/L	130	ID	< 33	< 50	< 50	< 67	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1,000	< 71
1,2,4-Trichlorobenzene	µg/L	70	99	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,2,4-Trimethylbenzene	µg/L	63	17	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,2-Dibromoethane	µg/L	0.05	5.7	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,2-Dichlorobenzene	µg/L	600	13	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,2-Dichloroethane	µg/L	5.0	360	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,2-Dichloropropane	µg/L	5.0	230	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,3,5-Trimethylbenzene	µg/L	72	45	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,3-Dichlorobenzene	µg/L	19	28	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
1,4-Dichlorobenzene	µg/L	75	17	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
-2Butanone (MEK)	µg/L	38,000	2,200	< 67	< 100	< 100	< 130	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 67	< 100	< 100	< 130	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140
Acetone	µg/L	2,100	1,700	< 67	< 100	< 100	< 130	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140
Benzene	µg/L	5.0	200	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Bromodichloromethane	µg/L	80	ID	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Bromoform	µg/L	80	ID	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Bromomethane	µg/L	29	35	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Carbon Disulfide	µg/L	2,300	ID	< 33	< 50	< 50	< 67	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1,000	< 71
Carbon Tetrachloride	µg/L	5.0	45	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
CFC-11	µg/L	7,300	ID	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
CFC-12	µg/L	4,800	ID	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Chlorobenzene	µg/L	100	25	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Chlorodibromomethane	µg/L	80	ID	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Chloroethane	µg/L	1,700	1,100	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	0.55 J	< 200	< 14
Chloroform	µg/L	80	350	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Chloromethane	µg/L	1,100	ID	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
cis-1,2-Dichloroethene	µg/L	70	620	190	200	200	230	< 1.0	< 1.0	0.39 J	0.37 J	2.2	550	82
cis-1,3-Dichloropropene	µg/L	NA	NA	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Cyclohexane	µg/L	NA	ID	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Dichloromethane	µg/L	5.0	1,500	8.9 J	< 50	< 50	< 67	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1,000	11 J
Diethyl ether	µg/L	10	ID	< 13	< 20	< 20	< 27	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 400	< 29
Ethylbenzene	µg/L	74	18	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Isopropylbenzene	µg/L	2,300	28	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Methyl Acetate	µg/L	NA	NA	< 67	< 100	< 100	< 130	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 67	< 100	< 100	< 130	< 10	< 10	< 10	< 10	< 10	< 2,000	< 140
Methylcyclohexane	µg/L	NA	NA	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14

See Notes on Last Page.

Location: Screen Interval (ft. bgs): Date:	Unit	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-70				MW-71				PW-16-01		
				15-20				15-20				9.7-19.7		
				4/24/2017	8/1/2017	11/13/2017	2/12/2018	4/24/2017	8/1/2017	11/13/2017	2/12/2018	8/2/2017	11/7/2017	2/7/2018
Methyl-tert-butylether	µg/L	40	7,100	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Styrene (Monomer)	µg/L	100	80	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	0.35 J	< 200	< 14
Tetrachloroethene	µg/L	5.0	60	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Toluene	µg/L	790	270	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Total Xylenes	µg/L	280	41	< 13	< 20	< 20	< 27	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 400	< 29
trans-1,2-Dichloroethene	µg/L	100	1,500	3.8 J	4.2 J	5.1 J	4.4 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	5.4 J
trans-1,3-Dichloropropene	µg/L	NA	NA	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Trichloroethene	µg/L	5.0	200	< 6.7	< 10	< 10	< 13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 14
Vinyl chloride	µg/L	2.0	13	120	100	140	160	< 1.0	0.68 J	0.83 J	0.59 J	24	5,300	160
Gases														
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other														
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals														
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	PW-16-02			TW-16-01			TW-16-02			
				6-21			12-17			12-17			
				8/3/2017	11/8/2017	2/14/2018	8/2/2017	11/7/2017	2/7/2018	4/25/2017	8/2/2017	11/7/2017	2/14/2018
Semi-volatile Organic Compounds (SVOCs)													
1,4-Dioxane	µg/L	37	2,800	0.51 J	< 2.0	< 2.0	0.32 J	< 2.0	< 2.0	7.2	3.9	5.8	3.9
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	µg/L	200	89	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,1,2-Trichloroethane	µg/L	5.0	330	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,1-Dichloroethane	µg/L	2,500	740	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,1-Dichloroethene	µg/L	7.0	130	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,2,3-Trimethylbenzene	µg/L	130	ID	< 25	< 5.0	< 5.0	< 50	< 63	< 170	< 3,100	< 2,500	< 2,000	< 5,000
1,2,4-Trichlorobenzene	µg/L	70	99	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,2,4-Trimethylbenzene	µg/L	63	17	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,2-Dibromoethane	µg/L	0.05	5.7	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,2-Dichlorobenzene	µg/L	600	13	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,2-Dichloroethane	µg/L	5.0	360	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,2-Dichloropropane	µg/L	5.0	230	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,3,5-Trimethylbenzene	µg/L	72	45	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,3-Dichlorobenzene	µg/L	19	28	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
1,4-Dichlorobenzene	µg/L	75	17	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
-2Butanone (MEK)	µg/L	38,000	2,200	< 50	< 10	< 10	< 100	< 130	< 330	< 6,300	< 5,000	< 4,000	< 10,000
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 50	< 10	< 10	< 100	< 130	< 330	< 6,300	< 5,000	< 4,000	< 10,000
Acetone	µg/L	2,100	1,700	< 50	< 10	< 10	< 100	< 130	< 330	< 6,300	< 5,000	< 4,000	< 10,000
Benzene	µg/L	5.0	200	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Bromodichloromethane	µg/L	80	ID	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Bromoform	µg/L	80	ID	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Bromomethane	µg/L	29	35	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Carbon Disulfide	µg/L	2,300	ID	< 25	< 5.0	< 5.0	< 50	< 63	< 170	< 3,100	< 2,500	< 2,000	< 5,000
Carbon Tetrachloride	µg/L	5.0	45	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
CFC-11	µg/L	7,300	ID	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
CFC-12	µg/L	4,800	ID	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Chlorobenzene	µg/L	100	25	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Chlorodibromomethane	µg/L	80	ID	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Chloroethane	µg/L	1,700	1,100	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Chloroform	µg/L	80	350	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Chloromethane	µg/L	1,100	ID	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
cis-1,2-Dichloroethene	µg/L	70	620	63	2.3	12	17	32	34	5,200	3,100	6,000	3,500
cis-1,3-Dichloropropene	µg/L	NA	NA	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Cyclohexane	µg/L	NA	ID	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Dichloromethane	µg/L	5.0	1,500	< 25	< 5.0	< 5.0	< 50	10 J	23 J	1,200 J	< 2,500	< 2,000	< 5,000
Diethyl ether	µg/L	10	ID	< 10	< 2.0	< 2.0	< 20	< 25	< 67	< 1,300	< 1,000	< 800	< 2,000
Ethylbenzene	µg/L	74	18	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Isopropylbenzene	µg/L	2,300	28	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Methyl Acetate	µg/L	NA	NA	< 50	< 10	< 10	< 100	< 130	< 330	< 6,300	< 5,000	< 4,000	< 10,000
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 50	< 10	< 10	< 100	< 130	< 330	< 6,300	< 5,000	< 4,000	< 10,000
Methylcyclohexane	µg/L	NA	NA	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000

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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	PW-16-02			TW-16-01			TW-16-02			
				6-21			12-17			12-17			
				8/3/2017	11/8/2017	2/14/2018	8/2/2017	11/7/2017	2/7/2018	4/25/2017	8/2/2017	11/7/2017	2/14/2018
Methyl-tert-butylether	µg/L	40	7,100	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Styrene (Monomer)	µg/L	100	80	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Tetrachloroethene	µg/L	5.0	60	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Toluene	µg/L	790	270	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Total Xylenes	µg/L	280	41	< 10	< 2.0	< 2.0	< 20	< 25	< 67	< 1,300	< 1,000	< 800	< 2,000
trans-1,2-Dichloroethene	µg/L	100	1,500	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
trans-1,3-Dichloropropene	µg/L	NA	NA	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Trichloroethene	µg/L	5.0	200	< 5.0	< 1.0	< 1.0	< 10	< 13	< 33	< 630	< 500	< 400	< 1,000
Vinyl chloride	µg/L	2.0	13	160	2.0	18	210	320	380	15,000	12,000	13,000	9,100
Gases													
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Other													
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals													
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	TW-16-03			TW-16-04			
				9-19			9-19			
				8/3/2017	11/8/2017	2/14/2018	4/25/2017	8/3/2017	11/8/2017	2/14/2018
Semi-volatile Organic Compounds (SVOCs)										
1,4-Dioxane	µg/L	37	2,800	0.54 J	< 2.0	< 2.0	1.7 J	0.81 J	0.89 J	< 2.0
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	µg/L	200	89	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,1,2,2-Tetrachloroethane	µg/L	35	78	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,1,2-trichloro-1,2,2-trifluoroethane	µg/L	170,000	32	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,1,2-Trichloroethane	µg/L	5.0	330	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,1-Dichloroethane	µg/L	2,500	740	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,1-Dichloroethene	µg/L	7.0	130	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,2,3-Trimethylbenzene	µg/L	130	ID	< 20	< 17	< 50	< 20	< 20	< 33	< 33
1,2,4-Trichlorobenzene	µg/L	70	99	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,2,4-Trimethylbenzene	µg/L	63	17	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,2-Dibromo-3-chloropropane	µg/L	0.2	ID	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,2-Dibromoethane	µg/L	0.05	5.7	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,2-Dichlorobenzene	µg/L	600	13	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,2-Dichloroethane	µg/L	5.0	360	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,2-Dichloropropane	µg/L	5.0	230	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,3,5-Trimethylbenzene	µg/L	72	45	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,3-Dichlorobenzene	µg/L	19	28	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
1,4-Dichlorobenzene	µg/L	75	17	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
-2Butanone (MEK)	µg/L	38,000	2,200	< 40	< 33	< 100	< 40	< 40	< 67	< 67
-4Methyl-2-Pentanone	µg/L	5,200	ID	< 40	< 33	< 100	< 40	< 40	< 67	< 67
Acetone	µg/L	2,100	1,700	< 40	< 33	< 100	< 40	< 40	< 67	< 67
Benzene	µg/L	5.0	200	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Bromodichloromethane	µg/L	80	ID	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Bromoform	µg/L	80	ID	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Bromomethane	µg/L	29	35	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Carbon Disulfide	µg/L	2,300	ID	< 20	< 17	< 50	< 20	< 20	< 33	< 33
Carbon Tetrachloride	µg/L	5.0	45	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
CFC-11	µg/L	7,300	ID	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
CFC-12	µg/L	4,800	ID	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Chlorobenzene	µg/L	100	25	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Chlorodibromomethane	µg/L	80	ID	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Chloroethane	µg/L	1,700	1,100	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Chloroform	µg/L	80	350	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Chloromethane	µg/L	1,100	ID	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
cis-1,2-Dichloroethene	µg/L	70	620	37	36	40	20	18	23	25
cis-1,3-Dichloropropene	µg/L	NA	NA	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Cyclohexane	µg/L	NA	ID	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Dichloromethane	µg/L	5.0	1,500	< 20	< 17	< 50	4.4 J	< 20	< 33	< 33
Diethyl ether	µg/L	10	ID	< 8.0	< 6.7	< 20	< 8.0	< 8.0	< 13	< 13
Ethylbenzene	µg/L	74	18	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Isopropylbenzene	µg/L	2,300	28	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Methyl Acetate	µg/L	NA	NA	< 40	< 33	< 100	< 40	< 40	< 67	< 67
Methyl N-Butyl Ketone (2-Hexanone)	µg/L	94	ID	< 40	< 33	< 100	< 40	< 40	< 67	< 67
Methylcyclohexane	µg/L	NA	NA	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7

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	Nonresidential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	TW-16-03			TW-16-04			
				9-19			9-19			
				8/3/2017	11/8/2017	2/14/2018	4/25/2017	8/3/2017	11/8/2017	2/14/2018
Methyl-tert-butylether	µg/L	40	7,100	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Styrene (Monomer)	µg/L	100	80	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Tetrachloroethene	µg/L	5.0	60	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Toluene	µg/L	790	270	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Total Xylenes	µg/L	280	41	< 8.0	< 6.7	< 20	< 8.0	< 8.0	< 13	< 13
trans-1,2-Dichloroethene	µg/L	100	1,500	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
trans-1,3-Dichloropropene	µg/L	NA	NA	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Trichloroethene	µg/L	5.0	200	< 4.0	< 3.3	< 10	< 4.0	< 4.0	< 6.7	< 6.7
Vinyl chloride	µg/L	2.0	13	100	77	95	150	120	100	77
Gases										
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA
Other										
Carbon, Dissolved	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA
Nitrate-N	µg/L	10	NS	NA	NA	NA	NA	NA	NA	NA
Sulfate	µg/L	250	NS	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA
Metals										
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA
Iron	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA
Manganese	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Notes:
Results are compared to the Michigan Department of Environmental Quality Part 201 Generic Cleanup Criteria, December 31, 2013.
< denotes not detected above reporting limit.
Bold Result denotes exceedance of Non-Residential Drinking Water Criteria.
Shaded Result denotes exceedance of Groundwater Surface Water Interface Criteria.

Abbreviations:
ft. bgs Feet below ground surface
ID Insufficient data to develop criterion
J Estimated result
NA Not Analyzed/Not Available
NS No Standard
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 Environmental Quality (MDEQ). 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 MDEQ.

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.)	Corrected Groundwater Elevation (ft. amsl)
MW-72	668.81	15-20	05/22/17	NP	6.98	19.31	NM	661.83
			07/24/17	NP	8.60	19.60	NM	660.21
			11/06/17	NP	9.20	19.54	NM	659.61
			02/05/18	NP	8.58	19.86	NM	660.23
MW-73S	666.89	7-12	05/22/17	NP	4.72	11.31	NM	662.17
			07/24/17	NP	6.38	11.48	NM	660.51
			11/06/17	NP	6.94	11.42	NM	659.95
			02/05/18	NP	6.30	11.62	NM	660.59
MW-73D	667.08	13.5-18.5	05/22/17	NP	4.98	17.21	NM	662.10
			07/24/17	NP	6.64	17.47	NM	660.44
			11/06/17	NP	7.22	17.38	NM	659.86
			02/05/18	NP	6.54	17.52	NM	660.54
MW-74	668.02	14-19	05/22/17	NP	5.94	18.52	NM	662.08
			07/24/17	NP	7.47	18.81	NM	660.55
			11/06/17	NP	8.12	18.76	NM	659.90
			02/05/18	NP	7.49	18.85	NM	660.53
MW-75S	666.86	5-10	05/22/17	NP	5.16	9.23	NM	661.70
			07/24/17	NP	6.15	9.48	NM	660.71
			11/06/17	NP	6.83	9.43	NM	660.03
			02/05/18	NP	6.56	9.82	NM	660.30
MW-75D	666.89	12-17	05/22/17	NP	5.20	16.59	NM	661.69
			07/24/17	NP	6.19	16.78	NM	660.70
			11/06/17	NP	6.81	17.80	NM	660.08
			02/05/18	NP	6.59	16.83	NM	660.30
MW-76	670.10	15-20	05/22/17	NP	9.43	19.44	NM	660.67
			07/24/17	NP	10.05	19.73	NM	660.05
			11/06/17	NP	10.73	19.66	NM	659.37
			02/05/18	NP	10.89	19.71	NM	659.21
MW-77	660.56	9-14	05/22/17	NP	4.59	13.45	NM	655.97
			07/24/17	NP	5.90	13.75	NM	654.66
			11/06/17	NP	6.30	13.67	NM	654.26
			02/05/18	NP	5.43	13.75	NM	655.13
MW-78	657.23	7-12	05/22/17	NP	1.78	11.47	NM	655.45
			07/24/17	NP	3.55	11.79	NM	653.68
			11/06/17	NP	3.50	11.72	NM	653.73
			02/05/18	NP	3.09	11.80	NM	654.14

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.)	Corrected Groundwater Elevation (ft. amsl)
MW-79S	663.10	5-10	05/22/17	NP	4.15	9.49	NM	658.95
			07/24/17	NP	6.37	9.76	NM	656.73
			11/06/17	NP	6.56	9.71	NM	656.54
			02/05/18	NP	5.46	9.78	NM	657.64
MW-79D	663.35	10-15	05/22/17	NP	4.20	14.38	NM	659.15
			07/24/17	NP	6.45	14.66	NM	656.90
			11/06/17	NP	6.62	14.60	NM	656.73
			02/05/18	NP	5.51	14.69	NM	657.84
MW-80S	656.08	7-12	05/22/17	NP	2.41	11.29	NM	653.67
			07/24/17	NP	4.19	11.50	NM	651.89
			11/06/17	NP	3.41	11.53	NM	652.67
			02/05/18	NP	2.86	11.81	NM	653.22
MW-81	657.32	8-13	05/22/17	NP	6.05	12.40	NM	651.27
			07/24/17	NP	7.24	12.70	NM	650.08
			11/06/17	NP	8.27	12.63	NM	649.05
			02/05/18	NP	7.29	12.71	NM	650.03
MW-82S	658.63	9-14	05/22/17	NP	6.93	13.12	NM	651.70
			07/24/17	NP	8.24	11.50	NM	650.39
			11/06/17	NP	9.08	13.34	NM	649.55
			02/05/18	NP	8.32	13.44	NM	650.31
MW-82D	658.45	18-23	05/22/17	NP	7.34	22.45	NM	651.11
			07/24/17	NP	8.50	22.80	NM	649.95
			11/06/17	NP	9.41	22.72	NM	649.04
			02/05/18	NP	8.65	22.81	NM	649.80
MW-83	660.09	8-13	05/22/17	NP	6.46	12.11	NM	653.63
			07/24/17	NP	7.61	12.44	NM	652.48
			11/06/17	NP	8.08	12.46	NM	652.01
			02/05/18	NP	7.53	12.48	NM	652.56
MW-84	662.50	8-13	05/22/17	NP	3.26	12.28	NM	659.24
			07/24/17	NP	5.19	12.59	NM	657.31
			11/06/17	NP	5.54	12.52	NM	656.96
			02/05/18	NP	4.60	12.60	NM	657.90
MW-85	658.85	8-13	05/22/17	NP	4.71	12.43	NM	654.14
			07/24/17	NP	6.12	12.75	NM	652.73
			11/06/17	NP	6.34	12.70	NM	652.51
			02/05/18	NP	5.53	12.76	NM	653.32

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.)	Corrected Groundwater Elevation (ft. amsl)
MW-86	666.11	12-17	05/22/17	NP	6.25	16.35	NM	659.86
			07/24/17	NP	8.07	16.66	NM	658.04
			11/06/17	NP	8.70	16.58	NM	657.41
			02/05/18	NP	7.87	16.72	NM	658.24
MW-87	668.89	14-19	05/22/17	NP	9.41	18.55	NM	659.48
			07/24/17	NP	10.65	18.85	NM	658.24
			11/06/17	NP	11.42	18.79	NM	657.47
			02/05/18	NP	11.06	18.86	NM	657.83

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
NM	Not measured
NP	No product detected
TOC	Top of casing

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

Location: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-72				MW-73D			
				15-20				13.5-18.5			
				5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/22/2017	7/26/2017	11/7/2017	2/6/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	1.1 J	0.53 J	0.97 J	0.78 J	3.2	3.1	2.8	1.5 J
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	< 1.0	< 1.0	< 1.0	NA	0.45 J	0.50 J	0.43 J
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	3.9	2.9	1.6	1.3	1.1	0.85 J	1.3	0.79 J
Metals											
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Anions											
Nitrate-N	mg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	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: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-73S				MW-74			
				7-12				14-19			
				5/22/2017	7/26/2017	11/7/2017	2/6/2018	5/23/2017	7/26/2017	11/7/2017	2/6/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.5 J	1.3 J	0.66 J
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	1.9	1.8	1.3	NA	< 1.0	< 1.0	0.42 J
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	0.40 J	0.48 J	0.48 J	0.33 J	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	1.6	1.3	1.9	1.1	< 1.0	2.7	2.4	2.0
Metals											
Iron, Dissolved	µg/L	300	NS	3,900	NA	1,200	NA	NA	NA	NA	NA
Iron, Total	µg/L	300	NS	3,900	NA	1,200	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	1,200	NA	940	NA	NA	NA	NA	NA
Manganese, Total	µg/L	50	NS	1,200	NA	890	NA	NA	NA	NA	NA
Anions											
Nitrate-N	mg/L	10	NS	< 1.0	NA	< 0.10 J	NA	NA	NA	NA	NA
Sulfate	mg/L	250	NS	80	NA	89	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	6.1	NA	4.8	NA	NA	NA	NA	NA
Total Organic Carbon	mg/L	NS	NS	5.2	NA	4.6	NA	NA	NA	NA	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	24	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-75D				MW-75S			
				12-17				5-10			
				5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/23/2017	7/26/2017	11/8/2017	2/6/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	1.9 J	1.8 J	1.8 J	0.91 J	< 2.0	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	6.4	3.7	4.9 J	1.9	0.45 J	< 1.0	< 1.0	< 1.0
Metals											
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	< 100	NA	330	NA
Iron, Total	µg/L	300	NS	NA	NA	NA	NA	210	NA	350	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	63	NA	42	NA
Manganese, Total	µg/L	50	NS	NA	NA	NA	NA	70	NA	42	NA
Anions											
Nitrate-N	mg/L	10	NS	NA	NA	NA	NA	21	NA	8.0 J	NA
Sulfate	mg/L	250	NS	NA	NA	NA	NA	89	NA	110	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	NA	NA	NA	NA	4.6	NA	13	NA
Total Organic Carbon	mg/L	NS	NS	NA	NA	NA	NA	3.6	NA	13	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	0.95 J	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	< 1.0	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	3,200	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-76				MW-77			
				15-20				9-14			
				5/23/2017	7/26/2017	11/8/2017	2/6/2018	5/25/2017	7/26/2017	11/10/2017	2/8/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	< 2.0	< 2.0	< 2.0	< 2.0	NA	0.32 J	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	3.9	4.0	2.2	NA	0.67 J	0.73 J	0.66 J
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	0.54 J	0.49 J	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	< 1.0	< 1.0	< 1.0	< 1.0	0.87 J	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	< 1.0	< 1.0	< 1.0	< 1.0	0.51 J	0.45 J	< 1.0	< 1.0
Metals											
Iron, Dissolved	µg/L	300	NS	340	NA	270	NA	NA	NA	NA	NA
Iron, Total	µg/L	300	NS	480	NA	280	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	760	NA	760	NA	NA	NA	NA	NA
Manganese, Total	µg/L	50	NS	800	NA	770	NA	NA	NA	NA	NA
Anions											
Nitrate-N	mg/L	10	NS	1.2 J	NA	3.3 J	NA	NA	NA	NA	NA
Sulfate	mg/L	250	NS	120	NA	160	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	1.1	NA	4.1	NA	NA	NA	NA	NA
Total Organic Carbon	mg/L	NS	NS	0.90 J	NA	1.3	NA	NA	NA	NA	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	1.5	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-78				MW-79D			
				7-12				10-15			
				5/25/2017	7/25/2017	11/9/2017	2/8/2018	5/24/2017	7/25/2017	11/9/2017	2/8/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	NA	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	< 1.0	< 1.0	< 1.0	< 1.0	3.2	4.1	3.6	1.9
Metals											
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Anions											
Nitrate-N	mg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-79S				MW-80S			
				5-10				7-12			
				5/24/2017	7/25/2017	11/9/2017	2/8/2018	5/24/2017	7/25/2017	11/8/2017	2/8/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	NA	< 2.0	< 2.0	< 2.0	NA	0.52 J	0.55 J	0.33 J
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	< 1.0	< 1.0	< 1.0	< 1.0	4.6	7.1	7.6	2.9
Metals											
Iron, Dissolved	µg/L	300	NS	990	NA	2,500	NA	600	NA	3,600	NA
Iron, Total	µg/L	300	NS	1,100	NA	2,900	NA	530	NA	3,600	NA
Manganese, Dissolved	µg/L	50	NS	110	NA	200	NA	200	NA	230	NA
Manganese, Total	µg/L	50	NS	120	NA	200	NA	190	NA	230	NA
Anions											
Nitrate-N	mg/L	10	NS	0.063 J	NA	< 0.10	NA	< 0.10	NA	< 0.10	NA
Sulfate	mg/L	250	NS	41	NA	69	NA	97	NA	110	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	4.1	NA	4.9	NA	5.6	NA	5.7	NA
Total Organic Carbon	mg/L	NS	NS	3.1	NA	4.4	NA	4.5	NA	5.2	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	< 1.0	NA	NA	NA	< 1.0	NA
Ethene	µg/L	NS	NS	NA	NA	< 1.0	NA	NA	NA	< 1.0	NA
Methane	µg/L	NS	NS	NA	NA	6.6	NA	NA	NA	55	NA

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

Location: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-81				MW-82D			
				8-13				18-23			
				5/26/2017	7/25/2017	11/9/2017	2/6/2018	5/24/2017	7/25/2017	11/8/2017	2/6/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	NA	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Metals											
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Anions											
Nitrate-N	mg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	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: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-82S				MW-83			
				9-14				8-13			
				5/24/2017	7/25/2017	11/8/2017	2/6/2018	5/26/2017	7/25/2017	11/9/2017	2/8/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	NA	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Metals											
Iron, Dissolved	µg/L	300	NS	180	NA	710	NA	NA	NA	NA	NA
Iron, Total	µg/L	300	NS	380	NA	720	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	510	NA	390	NA	NA	NA	NA	NA
Manganese, Total	µg/L	50	NS	550	NA	380	NA	NA	NA	NA	NA
Anions											
Nitrate-N	mg/L	10	NS	< 0.10	NA	< 0.10 J	NA	NA	NA	NA	NA
Sulfate	mg/L	250	NS	470	NA	270	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	2.7	NA	4.8	NA	NA	NA	NA	NA
Total Organic Carbon	mg/L	NS	NS	2.1	NA	2.2	NA	NA	NA	NA	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	< 1.0	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	10	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: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-84				MW-85			
				8-13				8-13			
				5/25/2017	7/25/2017	11/9/2017	2/8/2018	5/25/2017	7/25/2017	11/7/2017	2/8/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	NA	< 2.0	< 2.0	< 2.0	NA	0.29 J	< 2.0	0.41 J
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	< 1.0	< 1.0	< 1.0	< 1.0	8.6	7.3	7.3	5.5
Metals											
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Anions											
Nitrate-N	mg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	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: Screen Interval (ft. bgs): Date:	Unit	Residential Drinking Water Criteria	Groundwater Surface Water Interface Criteria	MW-86				MW-87			
				12-17				14-19			
				5/25/2017	7/26/2017	11/10/2017	2/8/2018	5/23/2017	7/26/2017	11/10/2017	2/8/2018
Semi-volatile Organic Compounds (SVOCs)											
1,4-Dioxane	µg/L	7.2*	2,800	NA	0.99 J	0.87 J	< 2.0	NA	< 2.0	< 2.0	< 2.0
Volatile Organic Compounds (VOCs)											
1,1-Dichloroethene	µg/L	7.0	130	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	µg/L	70	620	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/L	5.0	60	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	µg/L	100	1,500	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/L	1.0**	200	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	µg/L	1.0**	13	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Metals											
Iron, Dissolved	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Iron, Total	µg/L	300	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Dissolved	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Manganese, Total	µg/L	50	NS	NA	NA	NA	NA	NA	NA	NA	NA
Anions											
Nitrate-N	mg/L	10	NS	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	250	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)											
Carbon, Dissolved	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	mg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Gases											
Ethane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NS	NS	NA	NA	NA	NA	NA	NA	NA	NA

See Notes on Last Page.

Notes:
All results are compared to the Michigan Department of Environmental Quality (MDEQ) Proposed Part 201 Generic Cleanup Criteria (September 2016).
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 (RRD) Target Detection Limit (TDL) of 1.0 µg/l.

Abbreviations:
ft. bgs feet below ground surface
J Estimated Result
mg/l milligrams per liter
NA Not Analyzed
NS No Standard
µg/l micrograms per liter

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

Location ID	June 2017		September 2017		November 2017		February 2018	
	Helium Pre Sample (ppm)	Helium Post Sample (ppm)	Helium Pre Sample (ppm)	Helium Post Sample (ppm)	Helium Pre Sample (ppm)	Helium Post Sample (ppm)	Helium Pre Sample (ppm)	Helium Post Sample (ppm)
SVMP-1-3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-1-7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-2-4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-2-8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-3-3.5	50	75	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-3-7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-4-3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-5-4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-6-4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-7-3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-8-3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-9-4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-10-3	0.0	1,475	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-11-3.5	0.0	0.0	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
SVMP-13-2	250	4,750	0.0	0.0	0.0	0.0	NS	NS
SVMP-14-2	225	0.0	0.0	0.0	0.0	0.0	NS	NS
SVMP-15-2	2,450	3,800	0.0	0.0	0.0	0.0	NS	NS
SVMP-16-2	450	1,725	0.0	0.0	0.0	0.0	NS	NS
SVMP-17-2	4,675	2,925	0.0	0.0	0.0	NA	NS	NS
SVMP-18-3	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
SVMP-20-3	0.0	850	0.0	0.0	NS	NS	NS	NS
SVMP-21-2	0.0	0.0	0.0	0.0	0.0	0.0	NS	NS
SVMP-22-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-23-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-24-4	0.0	0.0	0.0	0.0	800	0.0	0.0	0.0
SVMP-25-3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SVMP-25-6	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
SVMP-27-4.5	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
SVMP-29-3.5	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-29-7.5	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-30-4	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-31-5.5	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-32-3	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-32-6	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-33-4	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-34-4	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-35-4	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-36-4	0.0	0.0	NS	NS	NS	NS	NS	NS
SVMP-37-2.5	0.0	0.0	NS	NS	NS	NS	NS	NS

See Notes on Last Page.

Notes:

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

Shroud concentrations ranged from 30-40% helium during all sampling events.

As discussed in the MDEQ 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 the June 2017 , September 2017, November 2017, or February 2018 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 MDEQ VI guidance.

SVMP-11 abandoned after the initial sampling event per the adjacent property owners request.

SVMP-29 through SVMP-37 are located on residential properties and were therefore 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.

Abbreviations:

MDEQ	Michigan Department of Environmental Quality
NA	Not analyzed
NS	Not sampled
ppm	parts per million
SVMP	Soil Vapor Monitoring Point
VI	Vapor intrusion

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

Location ID	June 2017			September 2017			November 2017			February 2018		
	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)	CO ₂ (%)	O ₂ (%)	CH ₄ (%)
SVMP-1-3.5	1.3	19.7	0.0	1.2	19.3	0.0	1.7	21.1	0.0	1.8	18.5	NA
SVMP-1-7	0.9	19.4	0.0	1.7	19.2	0.0	2.4	20.0	0.0	1.9	18.9	NA
SVMP-2-4.5	4.8	17.4	0.0	0.9	20.1	0.0	9.3	7.7	0.0	0.1	21.6	NA
SVMP-2-8.5	6.7	16.3	0.0	1.7	19.3	0.0	10.5	5.4	0.0	0.0	21.6	NA
SVMP-3-3.5	0.3	20.6	0.0	0.6	20.4	0.0	0.7	21.4	0.0	0.0	21.4	NA
SVMP-3-7	0.4	21.2	0.0	0.8	19.9	0.0	0.9	21.1	0.0	0.0	21.2	NA
SVMP-4-3.5	0.6	20.1	0.0	1.0	20.0	0.0	0.8	19.1	0.0	1.6	16.2	NA
SVMP-5-4.5	0.2	22.0	0.0	0.2	20.7	0.0	0.5	26.9	0.0	1.2	19.6	NA
SVMP-6-4.5	0.5	20.8	0.0	0.9	20.1	0.0	0.7	21.0	0.0	0.4	20.8	NA
SVMP-7-3.5	1.2	20.5	0.0	0.0	20.8	0.0	1.3	19.7	0.0	1.0	20.4	NA
SVMP-8-3.5	2.5	19.8	0.0	1.4	19.6	0.0	8.9	21.6	0.0	0.3	20.8	NA
SVMP-9-4	0.3	21.2	0.0	0.0	20.8	0.0	0.7	21.6	0.0	0.0	21.0	NA
SVMP-10-3	0.2	20.1	0.0	0.4	19.9	0.0	0.5	19.5	0.0	0.1	20.9	NA
SVMP-11-3.5	0.3	21.1	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-12-3.5	0.2	21.2	0.0	1.2	19.9	0.0	1.0	19.9	0.0	0.0	20.9	NA
SVMP-13-2	0.6	20.0	0.0	1.2	18.6	0.0	2.6	11.8	0.0	NS	NS	NS
SVMP-14-2	0.9	18.5	0.0	1.5	19.5	0.0	1.4	19.1	0.0	NS	NS	NS
SVMP-15-2	0.8	21.4	0.0	0.7	20.3	0.0	0.1	20.1	0.0	NS	NS	NS
SVMP-16-2	0.9	20.8	0.0	1.2	19.8	0.0	0.3	20.5	0.0	NS	NS	NS
SVMP-17-2	1.3	19.5	0.0	4.9	16.8	0.0	NS	NS	NS	NS	NS	NS
SVMP-18-3	2.6	18.6	0.0	5.2	16.8	0.0	4.3	17.6	0.0	2.7	16.6	NA
SVMP-19-3	6.4	14.8	0.0	6.4	16.3	0.0	7.0	15.0	0.0	NA	NA	NA
SVMP-20-3	6.3	15.7	0.0	6.0	16.1	0.0	NS	NS	NS	NS	NS	NS
SVMP-21-2	2.5	19.8	0.0	1.8	19.3	0.0	0.8	19.9	0.0	NS	NS	NS
SVMP-22-3	0.9	20.3	0.0	1.8	19.8	0.0	1.3	20.2	0.0	0.0	21.0	NA
SVMP-23-3	1.4	20.2	0.0	0.1	15.8	0.0	1.1	20.6	0.0	NA	NA	NA
SVMP-24-4	2.8	19.4	0.0	2.5	18.9	0.0	2.6	19.5	0.0	2.0	19.2	NA
SVMP-25-3	3.2	18.0	0.0	4.0	15.5	0.0	4.0	18.0	0.0	0.2	20.9	NA
SVMP-25-6	2.4	18.4	0.0	5.4	14.0	0.0	4.6	17.4	0.0	0.0	21.0	NA
SVMP-26-4	3.8	12.0	0.0	11.4	8.6	0.0	12.0	5.6	0.0	0.6	20.7	NA
SVMP-27-4.5	3.8	20.3	0.0	1.1	19.2	0.0	1.5	20.4	0.0	0.1	21.3	NA
SVMP-28-3	1.8	21.0	0.0	3.4	16.7	0.0	2.3	16.2	0.0	0.1	21.1	NA
SVMP-29-3.5	0.6	20.5	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-29-7.5	0.9	20.8	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-30-4	0.4	20.9	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-31-5.5	1.2	19.7	0.0	NS	NS	NS	NS		NS	NS	NS	NS
SVMP-32-3	1.6	19.5	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-32-6	1.3	19.7	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-33-4	5.7	16.9	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-34-4	0.9	20.3	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-35-4	1.1	21.4	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-36-4	1.4	19.5	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
SVMP-37-2.5	7.2	15.8	0.0	NS	NS	NS	NS	NS	NS	NS	NS	NS

See Notes on Last Page.

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 owners request.
SVMP-29 through SVMP-37 are located on residential properties and therefore 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.

Abbreviations:

%	Percent
CH ₄	Methane
CO ₂	Carbon dioxide
NA	Not analyzed
NS	Not sampled
O ₂	Oxygen
SVMP	Soil Vapor Monitoring Point

This document is a DRAFT document that has not received approval from the Michigan Department of Environmental Quality (MDEQ). 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 MDEQ.

Table 7
Off-Site Soil Gas Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location: Sample Depth (ft. bgs): Sample Date:	Residential RIASL	SVMP-01								SVMP-02							
		3.5				7				4.5				8.5			
		6/8/2017	9/20/2017	11/17/2017	2/19/2018	6/8/2017	9/20/2017	11/17/2017	2/19/2018	6/9/2017	9/20/2017	11/17/2017	2/19/2018	6/9/2017	9/20/2017	11/17/2017	2/19/2018
VOCs (Method TO-15) µg/m ³																	
1,1-Dichloroethene	7,000	NA	< 5.0	< 4.2	< 4.6	NA	< 4.8	< 4.8	< 4.5	NA	< 5.2	< 4.5	< 8.3	NA	< 5.2	< 4.6	< 8.3
1,4-Dioxane	170	NA	< 18	< 15	< 16	NA	< 17	< 17	< 16	NA	< 19	< 16	< 30	NA	< 19	< 17	< 30
cis-1,2-Dichloroethene	280	NA	< 5.0	< 4.2	< 4.6	NA	< 4.8	< 4.8	< 4.5	NA	< 5.2	< 4.5	< 8.3	NA	< 5.2	< 4.6	< 8.3
Tetrachloroethene	1,400	NA	< 8.5	< 7.1	< 7.8	NA	< 8.2	< 8.2	< 7.6	NA	< 9.0	< 7.8	< 14	NA	< 9.0	< 7.9	< 14
trans-1,2-Dichloroethene	9,000	NA	< 5.0	< 4.2	< 4.6	NA	< 4.8	< 4.8	< 4.5	NA	< 5.2	< 4.5	< 8.3	NA	< 5.2	< 4.6	< 8.3
Trichloroethene	67	< 6.2	< 6.8	< 5.6	< 6.2	< 6.2	< 6.5	< 6.5	< 6.0	< 6.0	< 7.1	< 6.2	< 11	< 6.1	< 7.1	< 6.3	< 11
Vinyl chloride	54	< 3.0	< 3.2	< 2.7	< 2.9	< 3.0	< 3.1	< 3.1	< 2.9	< 2.8	< 3.4	< 2.9	< 5.3	< 2.9	< 3.4	< 3.0	< 5.3

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Table 7
Off-Site Soil Gas Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location: Sample Depth (ft. bgs): Sample Date:	Residential RIASL	SVMP-03								SVMP-04				SVMP-05			
		3.5				7				3.5				4.5			
		6/12/2017	9/21/2017	11/17/2017	2/19/2018	6/12/2017	9/21/2017	11/17/2017	2/19/2018	6/12/2017	9/20/2017	11/20/2017	2/21/2018	6/12/2017	9/20/2017	11/20/2017	2/21/2018
VOCs (Method TO-15) µg/m ³																	
1,1-Dichloroethene	7,000	NA	< 4.9	< 4.0	< 4.3	NA	< 4.7	< 4.3	< 4.6	NA	< 4.9	< 4.9	< 4.7	NA	< 4.8	< 4.6	< 4.2
1,4-Dioxane	170	NA	< 18	< 15	< 16	NA	< 17	< 16	< 17	NA	< 18	< 18	< 17	NA	< 17	< 16	< 15
cis-1,2-Dichloroethene	280	NA	< 4.9	< 4.0	< 4.3	NA	< 4.7	< 4.3	< 4.6	NA	< 4.9	< 4.9	< 4.7	NA	< 4.8	< 4.6	< 4.2
Tetrachloroethene	1,400	NA	< 8.3	< 6.9	< 7.3	NA	< 8.1	< 7.4	< 7.9	NA	8.3 J	< 8.4	< 8.1	NA	< 8.2	< 7.8	< 7.2
trans-1,2-Dichloroethene	9,000	NA	< 4.9	< 4.0	< 4.3	NA	< 4.7	< 4.3	< 4.6	NA	< 4.9	< 4.9	< 4.7	NA	< 4.8	< 4.6	< 4.2
Trichloroethene	67	< 6.3	< 6.6	< 5.5	< 5.8	< 6.8	< 6.4	< 5.8	< 6.3	< 6.0	< 6.6	< 6.7	< 6.4	< 6.7	< 6.5	< 6.2	< 5.7
Vinyl chloride	54	< 3.0	< 3.1	< 2.6	< 2.8	< 3.2	< 3.0	< 2.8	< 3.0	< 2.9	< 3.2	< 3.2	< 3.0	< 3.2	< 3.1	< 2.9	< 2.7

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Table 7
Off-Site Soil Gas Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location: Sample Depth (ft. bgs): Sample Date:	Residential RIASL	SVMP-06				SVMP-07				SVMP-08				SVMP-09			
		4.5				3.5				3.5				4			
		6/13/2017	9/20/2017	11/20/2017	2/21/2018	6/13/2017	9/20/2017	11/20/2017	2/19/2018	6/15/2017	9/20/2017	11/20/2017	2/20/2018	6/14/2017	9/20/2017	11/20/2017	2/20/2018
VOCs (Method TO-15) µg/m³																	
1,1-Dichloroethene	7,000	NA	< 4.6	< 4.5	< 4.6	NA	< 4.8	< 4.7	< 4.5	NA	< 4.7	< 4.6	< 4.6	NA	< 4.9	< 4.5	< 4.8
1,4-Dioxane	170	NA	< 17	< 16	< 17	NA	< 17	< 17	< 16	NA	< 17	< 17	< 17	NA	< 18	< 16	< 17
cis-1,2-Dichloroethene	280	NA	8.0	< 4.5	< 4.6	NA	< 4.8	< 4.7	< 4.5	NA	< 4.7	< 4.6	< 4.6	NA	< 4.9	< 4.5	< 4.8
Tetrachloroethene	1,400	NA	24	< 7.7	< 7.8	NA	< 8.2	< 8.1	< 7.7	NA	< 8.1	< 7.9	< 7.9	NA	< 8.4	< 7.7	< 8.2
trans-1,2-Dichloroethene	9,000	NA	< 4.6	< 4.5	< 4.6	NA	< 4.8	< 4.7	< 4.5	NA	< 4.7	< 4.6	< 4.6	NA	< 4.9	< 4.5	< 4.8
Trichloroethene	67	< 6.0	< 6.3	< 6.1	< 6.2	< 6.3	< 6.5	< 6.4	< 6.1	< 6.5	< 6.4	< 6.2	< 6.3	6.9	< 6.6	< 6.1	< 6.5
Vinyl chloride	54	< 2.9	< 3.0	< 2.9	< 3.0	< 3.0	< 3.1	< 3.0	< 2.9	< 3.1	< 3.0	< 3.0	< 3.0	< 3.0	< 3.2	< 2.9	< 3.1

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Table 7
Off-Site Soil Gas Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location: Sample Depth (ft. bgs): Sample Date:	Residential RIASL	SVMP-10				SVMP-11	SVMP-12				SVMP-13				SVMP-14				
		3				3.5	3.5				2				2				
		6/13/2017	9/20/2017	11/21/2017	2/20/2018	6/13/2017	6/13/2017	9/19/2017	11/21/2017	2/20/2018	6/16/2017	9/19/2017	11/21/2017	2/19/2018	6/16/2017	9/19/2017	11/21/2017	2/19/2018	
VOCs (Method TO-15) µg/m³																			
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.4	< 4.7	NA	NA	< 4.8	< 4.7	< 4.7	NA	< 4.6	< 4.6	NA	NA	< 4.5	< 4.1	NA	
1,4-Dioxane	170	NA	< 17	< 16	< 17	NA	NA	< 17	< 17	< 17	NA	< 17	< 16	NA	NA	< 16	< 15	NA	
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.4	< 4.7	NA	NA	< 4.8	< 4.7	< 4.7	NA	< 4.6	< 4.6	NA	NA	< 4.5	< 4.1	NA	
Tetrachloroethene	1,400	NA	< 8.2	< 7.5	< 8.1	NA	NA	< 8.2	< 8.0	< 8.1	NA	< 7.9	< 7.8	NA	NA	< 7.8	< 7.0	NA	
trans-1,2-Dichloroethene	9,000	NA	< 4.8	< 4.4	< 4.7	NA	NA	< 4.8	< 4.7	< 4.7	NA	< 4.6	< 4.6	NA	NA	< 4.5	< 4.1	NA	
Trichloroethene	67	< 6.7	< 6.5	< 5.9	< 6.4	< 6.3	< 6.4	< 6.5	< 6.3	< 6.4	< 6.6	< 6.3	< 6.2	NA	< 6.4	< 6.2	< 5.6	NA	
Vinyl chloride	54	< 3.2	< 3.1	< 2.8	< 3.0	< 3.0	< 3.0	< 3.1	< 3.0	< 3.0	< 3.2	< 3.0	< 2.9	NA	< 3.0	< 2.9	< 2.6	NA	

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Table 7
Off-Site Soil Gas Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location: Sample Depth (ft. bgs): Sample Date:	Residential RIASL	SVMP-15				SVMP-16				SVMP-17				SVMP-18			
		2				2				2				3			
		6/16/2017	9/19/2017	11/20/2017	2/19/2018	6/16/2017	9/19/2017	11/20/2017	2/19/2018	6/16/2017	9/19/2017	11/20/2017	2/19/2018	6/16/2017	9/18/2017	11/17/2017	2/20/2018
VOCs (Method TO-15) µg/m ³																	
1,1-Dichloroethene	7,000	NA	< 4.7	< 4.4	NA	NA	< 4.5	< 4.3	NA	NA	< 4.8	NA	NA	NA	< 4.6	< 4.3	< 4.5
1,4-Dioxane	170	NA	< 17	< 16	NA	NA	< 16	< 16	NA	NA	< 17	NA	NA	NA	< 17	< 16	< 16
cis-1,2-Dichloroethene	280	NA	< 4.7	< 4.4	NA	NA	< 4.5	< 4.3	NA	NA	< 4.8	NA	NA	NA	< 4.6	< 4.3	< 4.5
Tetrachloroethene	1,400	NA	< 8.1	< 7.6	NA	NA	< 7.8	< 7.4	NA	NA	< 8.2	NA	NA	NA	< 7.9	< 7.3	< 7.8
trans-1,2-Dichloroethene	9,000	NA	< 4.7	< 4.4	NA	NA	< 4.5	< 4.3	NA	NA	< 4.8	NA	NA	NA	< 4.6	< 4.3	< 4.5
Trichloroethene	67	< 6.3	< 6.4	< 6.0	NA	< 6.4	< 6.2	< 5.9	NA	18	22	NA	NA	< 6.6	< 6.3	< 5.8	< 6.2
Vinyl chloride	54	< 3.0	< 3.0	< 2.9	NA	< 3.0	< 2.9	< 2.8	NA	< 3.0	< 3.1	NA	NA	< 3.2	< 3.0	< 2.8	< 2.9

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Table 7
Off-Site Soil Gas Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location: Sample Depth (ft. bgs): Sample Date:	Residential RIASL	SVMP-19				SVMP-20				SVMP-21				SVMP-22			
		3				3				2				3			
		6/16/2017	9/18/2017	11/17/2017	2/20/2018	6/19/2017	9/19/2017	11/20/2017	2/19/2018	6/19/2017	9/19/2017	11/20/2017	2/19/2018	6/19/2017	9/18/2017	11/17/2017	2/20/2018
VOCs (Method TO-15) µg/m ³																	
1,1-Dichloroethene	7,000	NA	< 5.1	< 4.3	< 4.1	NA	< 4.8	NA	NA	NA	< 4.6	< 4.6	NA	NA	< 4.8	< 4.9	< 4.7
1,4-Dioxane	170	NA	< 18	< 16	< 15	NA	< 17	NA	NA	NA	< 17	< 17	NA	NA	< 17	< 18	< 17
cis-1,2-Dichloroethene	280	NA	< 5.1	< 4.3	< 4.1	NA	< 4.8	NA	NA	NA	< 4.6	< 4.6	NA	NA	< 4.8	< 4.9	< 4.7
Tetrachloroethene	1,400	NA	< 8.8	< 7.4	< 7.1	NA	< 8.2	NA	NA	NA	< 7.9	< 7.9	NA	NA	< 8.2	< 8.4	< 8.1
trans-1,2-Dichloroethene	9,000	NA	< 5.1	< 4.3	< 4.1	NA	< 4.8	NA	NA	NA	< 4.6	< 4.6	NA	NA	< 4.8	< 4.9	< 4.7
Trichloroethene	67	< 6.4	< 6.9	< 5.9	< 5.6	< 5.8	< 6.5	NA	NA	< 6.2	< 6.3	< 6.2	NA	< 6.4	< 6.5	< 6.7	< 6.4
Vinyl chloride	54	< 3.0	< 3.3	< 2.8	< 2.7	< 2.7	< 3.1	NA	NA	< 3.0	< 3.0	< 3.0	NA	< 3.1	< 3.1	< 3.2	< 3.0

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Table 7
Off-Site Soil Gas Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location: Sample Depth (ft. bgs): Sample Date:	Residential RIASL	SVMP-23				SVMP-24				SVMP-25							
		3				4				3				6			
		6/19/2017	9/18/2017	11/17/2017	2/20/2018	6/19/2017	9/18/2017	11/17/2017	2/21/2018	6/19/2017	9/21/2017	11/21/2017	2/21/2018	6/19/2017	9/21/2017	11/21/2017	2/21/2018
VOCs (Method TO-15) µg/m ³																	
1,1-Dichloroethene	7,000	NA	< 4.6	< 4.3	< 4.2	NA	< 4.6	< 4.4	< 4.7	NA	< 4.7	< 4.5	< 4.4	NA	< 4.4	< 4.7	< 4.4
1,4-Dioxane	170	NA	< 17	< 16	< 15	NA	< 17	< 16	< 17	NA	< 17	< 16	< 16	NA	< 16	< 17	< 16
cis-1,2-Dichloroethene	280	NA	< 4.6	< 4.3	< 4.2	NA	< 4.6	< 4.4	< 4.7	NA	< 4.7	< 4.5	< 4.4	NA	< 4.4	< 4.7	< 4.4
Tetrachloroethene	1,400	NA	< 7.9	< 7.4	< 7.2	NA	< 7.9	< 7.5	< 8.1	NA	< 8.1	< 7.7	< 7.6	NA	12	< 8.1	< 7.6
trans-1,2-Dichloroethene	9,000	NA	< 4.6	< 4.3	< 4.2	NA	< 4.6	< 4.4	< 4.7	NA	< 4.7	< 4.5	< 4.4	NA	< 4.4	< 4.7	< 4.4
Trichloroethene	67	< 6.4	< 6.3	< 5.8	< 5.7	< 6.2	< 6.3	< 5.9	< 6.4	< 6.2	< 6.4	< 6.1	< 6.0	< 6.4	< 6.0	< 6.4	< 6.0
Vinyl chloride	54	< 3.1	< 3.0	< 2.8	< 2.7	< 3.0	< 3.0	< 2.8	< 3.0	< 3.0	< 3.0	< 2.9	< 2.9	< 3.0	< 2.9	< 3.0	< 2.9

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Table 7
Off-Site Soil Gas Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan



Location: Sample Depth (ft. bgs): Sample Date:	Residential RIASL	SVMP-26				SVMP-27				SVMP-28				SVMP-29		SVMP-30	SVMP-31
		4				4.5				3				3.5	7.5	4	5.5
		6/19/2017	9/21/2017	11/21/2017	2/21/2018	6/19/2017	9/21/2017	11/21/2017	2/21/2018	6/19/2017	9/21/2017	11/21/2017	2/21/2018	6/14/2017	6/14/2017	6/14/2017	6/14/2017
VOCs (Method TO-15) µg/m ³																	
1,1-Dichloroethene	7,000	NA	< 4.9	< 4.4	< 4.4	NA	< 4.4	< 4.4	< 4.4	NA	< 4.8	< 4.6	< 4.3	NA	NA	NA	NA
1,4-Dioxane	170	NA	< 18	< 16	< 16	NA	< 16	< 16	< 16	NA	< 17	< 17	< 16	NA	NA	NA	NA
cis-1,2-Dichloroethene	280	NA	< 4.9	< 4.4	< 4.4	NA	11	< 4.4	< 4.4	NA	< 4.8	< 4.6	< 4.3	NA	NA	NA	NA
Tetrachloroethene	1,400	NA	< 8.4	< 7.6	< 7.5	NA	< 7.6	< 7.5	< 7.6	NA	25	< 7.9	< 7.3	NA	NA	NA	NA
trans-1,2-Dichloroethene	9,000	NA	< 4.9	< 4.4	< 4.4	NA	< 4.4	< 4.4	< 4.4	NA	< 4.8	< 4.6	< 4.3	NA	NA	NA	NA
Trichloroethene	67	< 6.2	< 6.6	< 6.0	< 5.9	< 6.2	7.2	< 5.9	< 6.0	< 6.1	< 6.5	< 6.3	< 5.8	< 6.3	< 6.0	31	< 6.1
Vinyl chloride	54	< 3.0	< 3.2	< 2.9	< 2.8	< 3.0	< 2.9	< 2.8	< 2.9	< 2.9	< 3.1	< 3.0	< 2.8	< 3.0	< 2.8	< 2.9	< 2.9

See Notes on Last Page.

Table 7
Off-Site Soil Gas Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: Sample Depth (ft. bgs): Sample Date:	Residential RIASL	SVMP-32		SVMP-33	SVMP-34	SVMP-35	SVMP-36	SVMP-37
		3	6	4	4	4	4	2.5
		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/m³								
1,1-Dichloroethene	7,000	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	170	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	280	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	1,400	NA	NA	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	9,000	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	67	< 6.4	< 6.5	< 6.5	< 6.3	< 6.9	< 6.2	< 6.2
Vinyl chloride	54	< 3.0	< 3.1	< 3.1	< 3.0	< 3.3	< 2.9	< 3.0

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Notes:

The residential RIASLs apply to a residential structure with a basement.
SVMP-11 abandoned after the initial sampling event per the adjacent property owners request.
SVMP-29 through SVMP-37 are located on residential properties and therefore 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.
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
RIASL	Recommended Interim Action Screening Levels
SVMP	Soil vapor monitoring point
VOC	Volatile organic compounds

This document is a DRAFT document that has not received approval from the Michigan Department of Environmental Quality (MDEQ). 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 MDEQ.

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

Date	Approximate Volume of Treated Water Discharged [¥] (Gallons)	Date	Approximate Volume of Treated Water Discharged [¥] (Gallons)	Date	Approximate Volume of Treated Water Discharged [¥] (Gallons)
1/1/2018 ^Q	0	2/1/2018 ^Q	42,835	3/1/2018	46,926
1/2/2018 ^S	4,689	2/2/2018	41,901	3/2/2018 ^Q	47,720
1/3/2018 ^S	33,467	2/3/2018	40,846	3/3/2018	48,748
1/4/2018	33,467	2/4/2018	39,059	3/4/2018	48,843
1/5/2018 ^{SQ}	36,454	2/5/2018 ^Q	36,408	3/5/2018 ^Q	48,363
1/6/2018	44,013	2/6/2018	31,530	3/6/2018	46,377
1/7/2018	43,779	2/7/2018	32,837	3/7/2018	48,557
1/8/2018 ^Q	41,534	2/8/2018	38,455	3/8/2018	55,110
1/9/2018	41,729	2/9/2018 ^Q	39,546	3/9/2018 ^{QM}	21,274
1/10/2018	39,933	2/10/2018	39,464	3/10/2018 ^M	26,790
1/11/2018	37,407	2/11/2018	38,554	3/11/2018	48,841
1/12/2018 ^Q	35,505	2/12/2018	38,166	3/12/2018 ^Q	45,594
1/13/2018	39,063	2/13/2018 ^Q	44,027	3/13/2018	47,290
1/14/2018	38,746	2/14/2018 ^C	44,812	3/14/2018	45,797
1/15/2018 ^Q	37,544	2/15/2018 ^P	47,998	3/15/2018 ^{Q*}	42,250
1/16/2018	37,472	2/16/2018 ^{QP}	57,627	3/16/2018	41,339
1/17/2018	36,678	2/17/2018	52,454	3/17/2018	39,845
1/18/2018	34,591	2/18/2018	50,009	3/18/2018	39,354
1/19/2018 ^Q	23,698	2/19/2018 ^Q	51,422	3/19/2018 ^Q	37,131
1/20/2018	26,984	2/20/2018	52,544	3/20/2018	35,400
1/21/2018	16,985	2/21/2018	57,350	3/21/2018	37,434
1/22/2018 ^Q	28,392	2/22/2018 ^Q	53,401	3/22/2018	37,439
1/23/2018	40,939	2/23/2018	46,174	3/23/2018 ^Q	36,290
1/24/2018	40,247	2/24/2018	38,733	3/24/2018	37,147
1/25/2018	38,881	2/25/2018	37,444	3/25/2018	36,567
1/26/2018 ^Q	34,411	2/26/2018 ^Q	42,055	3/26/2018 ^Q	28,811
1/27/2018	32,203	2/27/2018 ^{QM}	34,414	3/27/2018	38,458
1/28/2018	22,390	2/28/2018	47,121	3/28/2018	39,814
1/29/2018 ^Q	25,844	--	--	3/29/2018 ^Q	28,824
1/30/2018 ^Q	23,692	--	--	3/30/2018	26,331
1/31/2018	44,188	--	--	3/31/2018	38,840
Total volume discharged during January 2018	1,014,925	Total volume discharged during February 2018	1,217,186	Total volume discharged during March 2018	1,247,504

Notes:

Treated groundwater discharged volume readings are recorded daily.

Footnotes:

* Monthly treated groundwater discharge compliance sample collected as required by the Wastewater Discharge Permit Addendum #1 (Permit No.: 006-27510-IU).

¥ Volume of treated groundwater discharged from the Groundwater Remediation System is based on a totalizer flow meter installed on the effluent discharge pipe inside the system building.

Q Groundwater remediation treatment system inspection visit.

S System shut down (Less than 1 day).

Q System offline due to extreme cold temperatures. System was restarted on January 2, 2018 and is operating as designed.

D System deactivated for replumbing exhaust to Catalytic Oxidizer (less than 1 day).

C System deactivated to collect carbon sample from each carbon vessel (less than 1 day).

M System deactivated to perform maintenance of the air stripper (less than 1 day).

P Pumps operating intermittently while field staff perform pump maintenance testing. (less than 1 day).

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Table 9
Hydraulic Control System Air Stripper Effluent Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Location: Date:	Air Stripper Effluent 1/26/2018	Air Stripper Effluent 2/28/2018	Air Stripper Effluent 3/23/2018
Method TO-15 (Full Scan)			
1,1,1-Trichloroethane	< 5.8	< 5.9	< 9.2
1,1,2,2-Tetrachloroethane	< 7.3	< 7.4	< 12
1,1,2-Trichloroethane	< 5.8	< 5.9	< 9.2
1,1-Dichloroethane	< 4.3	5.2	14
1,1-Dichloroethene	< 4.2	< 4.3	< 6.7
1,2,4-Trichlorobenzene	< 32	< 32	< 50
1,2,4-Trimethylbenzene	< 5.2	< 5.3	< 8.3
1,2-Dibromoethane (EDB)	< 8.2	< 8.3	< 13
1,2-Dichlorobenzene	< 6.4	< 6.5	< 10
1,2-Dichloroethane	< 4.3	< 4.4	< 6.9
1,2-Dichloropropane	< 4.9	< 5.0	< 7.8
1,3,5-Trimethylbenzene	< 5.2	< 5.3	< 8.3
1,3-Butadiene	< 2.4	< 2.4	< 3.7
1,3-Dichlorobenzene	< 6.4	< 6.5	< 10
1,4-Dichlorobenzene	< 6.4	< 6.5	< 10
1,4-Dioxane	< 15	< 16	< 24
2,2,4-Trimethylpentane	< 5.0	< 5.0	< 7.9
2-Butanone (Methyl Ethyl Ketone)	< 12	25	< 20
2-Hexanone	< 17	< 18	< 28
2-Propanol	< 10	64	< 17
3-Chloropropene	< 13	< 14	< 21
4-Ethyltoluene	< 5.2	< 5.3	< 8.3
4-Methyl-2-pentanone	< 4.4	< 4.4	< 6.9
Acetone	33	61	< 40
alpha-Chlorotoluene	< 5.5	< 5.6	< 8.8
Benzene	< 3.4	< 3.4	< 5.4
Bromodichloromethane	< 7.1	< 7.2	< 11
Bromoform	< 11	< 11	< 18
Bromomethane	< 41	< 42	< 66
Carbon Disulfide	< 13	< 13	< 21
Carbon Tetrachloride	< 6.7	< 6.8	< 11
Chlorobenzene	< 4.9	< 5.0	< 7.8
Chloroethane	< 11	< 11	< 18
Chloroform	< 5.2	< 5.3	< 8.3
Chloromethane	< 22	< 22	< 35
cis-1,2-Dichloroethene	< 4.2	170	330
cis-1,3-Dichloropropene	< 4.8	< 4.9	< 7.7
Cumene	< 5.2	< 5.3	< 8.3
Cyclohexane	< 3.7	27	< 5.8
Dibromochloromethane	< 9.1	< 9.2	< 14
Ethanol	< 8.0	16	< 13
Ethyl Benzene	< 4.6	< 4.7	< 7.4
Freon 11	< 6.0	< 6.1	< 9.5
Freon 113	< 8.2	< 8.3	< 13
Freon 114	< 7.4	< 7.6	< 12
Freon 12	< 5.3	< 5.3	< 8.4
Heptane	< 4.4	< 4.4	< 6.9
Hexachlorobutadiene	< 45	< 46	< 72
Hexane	< 3.8	< 3.8	< 6.0
m,p-Xylene	< 4.6	< 4.7	< 7.4
Methyl tert-butyl ether	< 15	< 16	< 24
Methylene Chloride	< 37	< 38	< 59
o-Xylene	< 4.6	< 4.7	< 7.4
Propylbenzene	< 5.2	< 5.3	< 8.3
Styrene	< 4.5	< 4.6	< 7.2
Tetrachloroethene	< 7.2	< 7.3	< 11
Tetrahydrofuran	19	68	10
Toluene	6.7	4.4	< 6.4
trans-1,2-Dichloroethene	< 4.2	4.7	12
trans-1,3-Dichloropropene	< 4.8	< 4.9	< 7.7
Trichloroethene	< 5.7	30	100
Vinyl Chloride	< 2.7	940	1,300

Notes:
United States Environmental Protection Agency Method, Toxic Organics - 15 (TO-15)
Compounds exempt under Rule 290
All units are measured in micrograms per cubic meter (µg/m³).
< denotes not detected above reporting limit.

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FIGURES



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SITE LOCATION

CITY: Novi DIV: ENV DB: MG PROJECT NUMBER: M0001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Z: GISProject\EN\Novi\Brighton MI\FordLivonia\GIS\docs\2018-01\Progress Report 402017\Site Location Map 20180109.mxd PLOTTED: 1/9/2018 3:05:46 PM BY: mrcress

Copyright: © 2013 National Geographic Society, i-cubed



0 2,000 4,000
SCALE IN FEET

SOURCE:
USGS 7.5 MINUTE TOPOGRAPHIC MAP
NORTHVILLE AND WAYNE QUADRANGLES

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE LOCATION MAP

 **ARCADIS** Design & Consultancy
for natural and
built assets

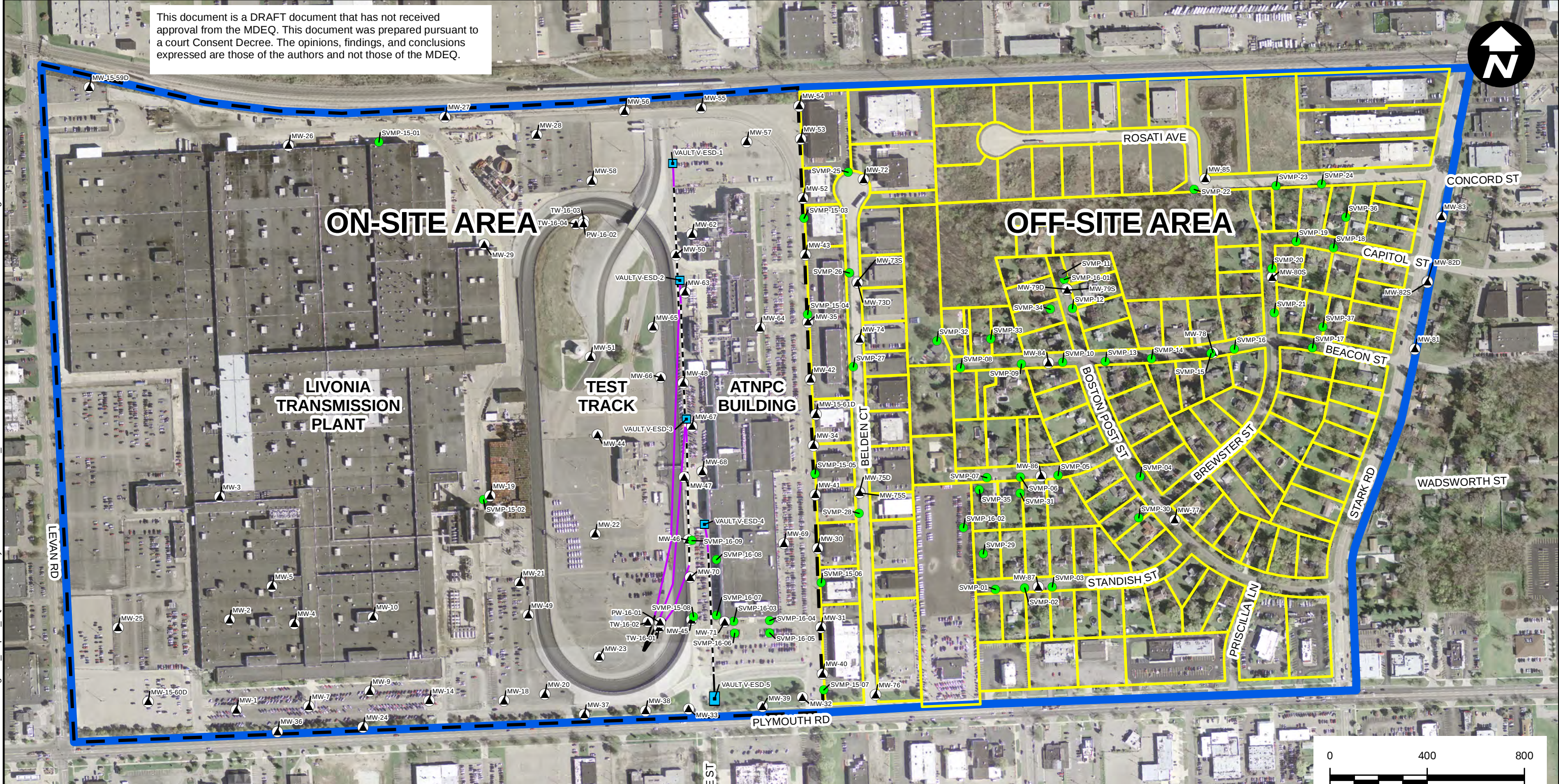
FIGURE

1

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CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: M001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Z:\GIS\Projects\ENVT\Novi\Brighton_MtFordLivoniaGISdocs2018-01\Progress_Report_4Q2017\Site Layout On-site and Off-site_20180109.mxd PLOTTED: 1/9/2018 3:11:23 PM BY: mgress



LEGEND

- | | | |
|---|--|--|
| ● ABANDONED SOIL VAPOR MONITORING POINT | --- WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED) | FORD PROPERTY BOUNDARY |
| ● SOIL VAPOR MONITORING POINT | — WELL BLANK CASING (4-INCH SDR-11 HDPE) | □ COMMERCIAL/RESIDENTIAL PROPERTY BOUNDARY |
| ▲ MONITORING WELL | — WELL BLANK CASING (6-INCH SDR-11 HDPE) | □ AREA OF CONCERN |
| ■ VAULT (2 FT x 2 FT) | | |
| ■ VAULT (4 FT x 6 FT) | | |

NOTES:
ATNPC - AUTOMATIC TRANSMISSION NEW PRODUCT CENTER

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

SITE LAYOUT



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LEGEND

- | | | | |
|--|--|----------|--|
| | MONITORING WELL | (661.85) | GROUNDWATER ELEVATION |
| | LNAPL MONITORING WELL | | GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED; CONTOUR INTERVAL = 1.0 FT) |
| | VAULT (2 FT x 2 FT) | | APPARENT GROUNDWATER FLOW DIRECTION |
| | VAULT (4 FT x 6 FT) | | PROPERTY BOUNDARIES |
| | WELL SCREEN (4-INCH SDR-11 HDPE, CUSTOM SLOTTED) | | FORD PROPERTY BOUNDARY |
| | WELL BLANK CASING (4-INCH SDR-11 HDPE) | | |
| | WELL BLANK CASING (6-INCH SDR-11 HDPE) | | |

NOTES:

1. ALL ELEVATIONS COLLECTED ON FEBRUARY 5-6, 2018 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.
3. WHERE NESTED WELLS ARE PRESENT, THE DEEP WELL IS USED FOR CONTOURING PURPOSES.
4. *WELL NOT USED TO CREATE CONTOURS
5. LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
6. NM = NOT MEASURED, CNL = COULD NOT LOCATE, CNO = COULD NOT OPEN
7. GROUNDWATER ELEVATION AT HYDRAULIC CONTROL SYSTEM HORIZONTAL WELLS ARE DETERMINED BY ESTIMATING AN APPARENT AMBIENT GROUNDWATER ELEVATION AND SUBTRACTING THE PUMPING WATER LEVEL.
8. HYDRAULIC CONTROL SYSTEM PERFORMANCE MONITORING WELLS RE-SURVEYED IN OCTOBER 2017. MONITORING WELLS RE-SURVEYED IN NOVEMBER 2017. MW-5 WAS UNABLE TO BE RE-SURVEYED DURING THE NOVEMBER 2017 EVENT DUE TO ACCESS.
9. MONITORING WELLS WITH LNAPL PRESENT IN THEM HAVE HAD THEIR GROUNDWATER ELEVATIONS CORRECTED TO ACCOUNT FOR THE LNAPL.
10. MW-1 SUBMERGED UNDER WATER DURING THE 1Q 2018 SAMPLING EVENT.

0 400 800
SCALE IN FEET

FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

**SITE-WIDE GROUNDWATER ELEVATION
CONTOUR MAP UNDER PUMPING CONDITIONS
FEBRUARY 2018**

ARCADIS Design & Consultancy
for natural and built assets

FIGURE

3

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LEGEND

- ON-SITE MONITORING WELL
CIS-1,2-DICHLOROETHENE ≤ 70 $\mu\text{g/L}$
- ON-SITE MONITORING WELL
CIS-1,2-DICHLOROETHENE > 70 $\mu\text{g/L}$
- EXCEEDANCE OF 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:
 $\mu\text{g/L}$ - MICROGRAMS PER LITER (PARTS PER BILLION)

$\leq$ - LESS THAN OR EQUAL TO

$>$ - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR CIS-1,2-DICHLOROETHENE IS 70 $\mu\text{g/L}$.

THE GROUNDWATER-SURFACE WATER INTERFACE CRITERIA FOR CIS-1,2-DICHLOROETHENE IS 620 $\mu\text{g/L}$.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT OF 1.0 $\mu\text{g/L}$ FOR CIS-1,2-DICHLOROETHENE

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

RESULTS COLLECTED DURING THE APRIL, JULY, AND NOVEMBER 2017 AND FEBRUARY 2018 SAMPLING EVENTS.

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



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

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

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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 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:
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.

THE GROUNDWATER-SURFACE WATER INTERFACE CRITERIA FOR TRANS-1,2-DICHLOROETHENE IS 1,500 µg/L.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT OF 1.0 µg/L FOR TRANS-1,2-DICHLOROETHENE

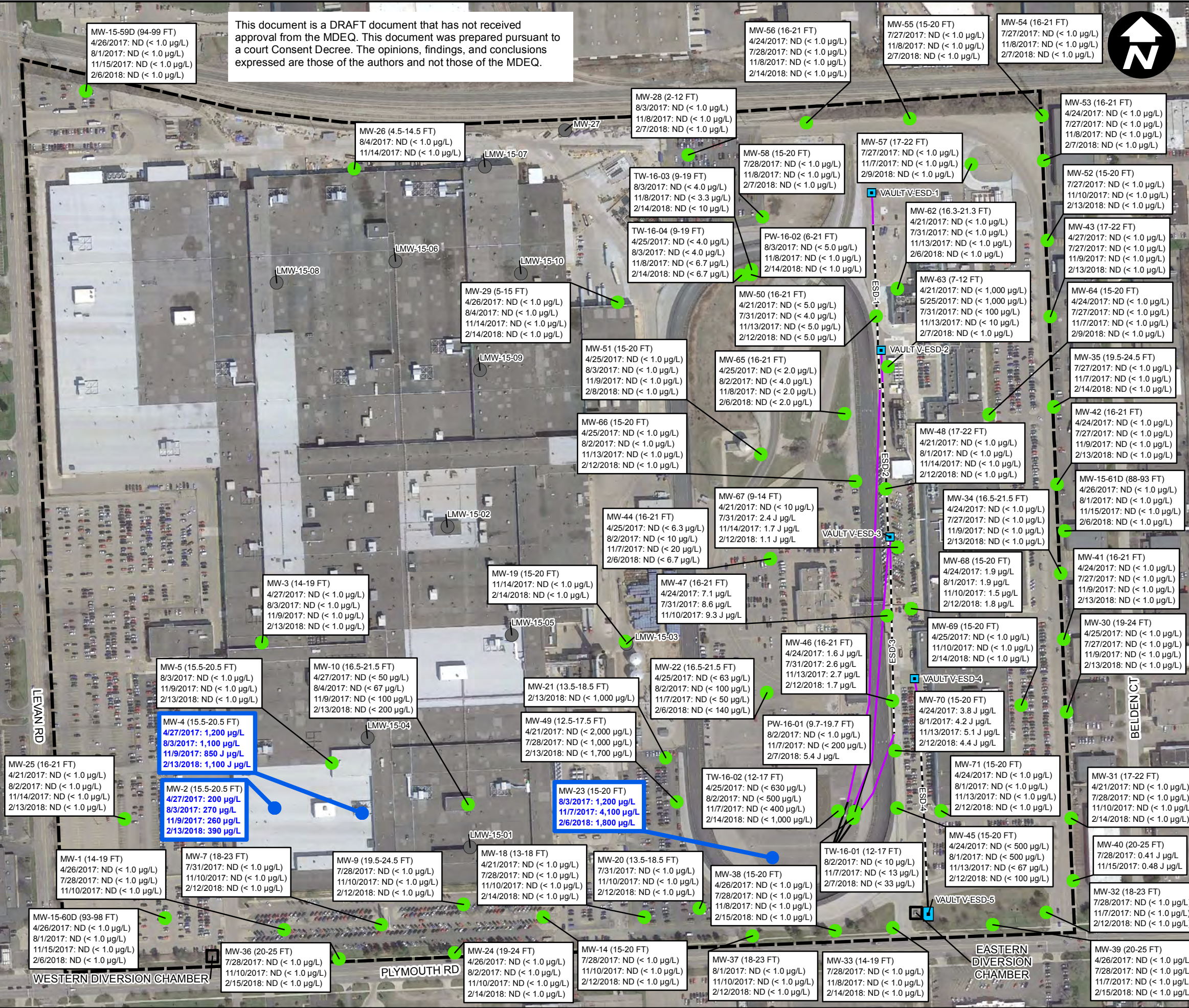
J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

RESULTS COLLECTED DURING THE APRIL, JULY, AND NOVEMBER 2017 AND FEBRUARY 2018 SAMPLING EVENTS.

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



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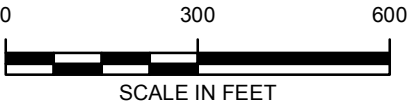


LEGEND

- ON-SITE MONITORING WELL TRICHLOROETHENE $\leq 5 \mu\text{g/L}$
- ON-SITE MONITORING WELL TRICHLOROETHENE $> 5 \mu\text{g/L}$
- EXCEEDANCE OF 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:
 $\mu\text{g/L}$ - MICROGRAMS PER LITER (PARTS PER BILLION)
 $\leq$ - LESS THAN OR EQUAL TO
 $>$ - GREATER THAN
THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR TRICHLOROETHENE IS $5.0 \mu\text{g/L}$.
THE GROUNDWATER-SURFACE WATER INTERFACE CRITERIA FOR TRICHLOROETHENE IS $200 \mu\text{g/L}$.
FT = FEET BELOW GROUND SURFACE
"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT OF $1.0 \mu\text{g/L}$ FOR TRICHLOROETHENE
J = ESTIMATED RESULT
MW = MONITORING WELL
LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL
RESULTS COLLECTED DURING THE APRIL, JULY, AND NOVEMBER 2017 AND FEBRUARY 2018 SAMPLING EVENTS.

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



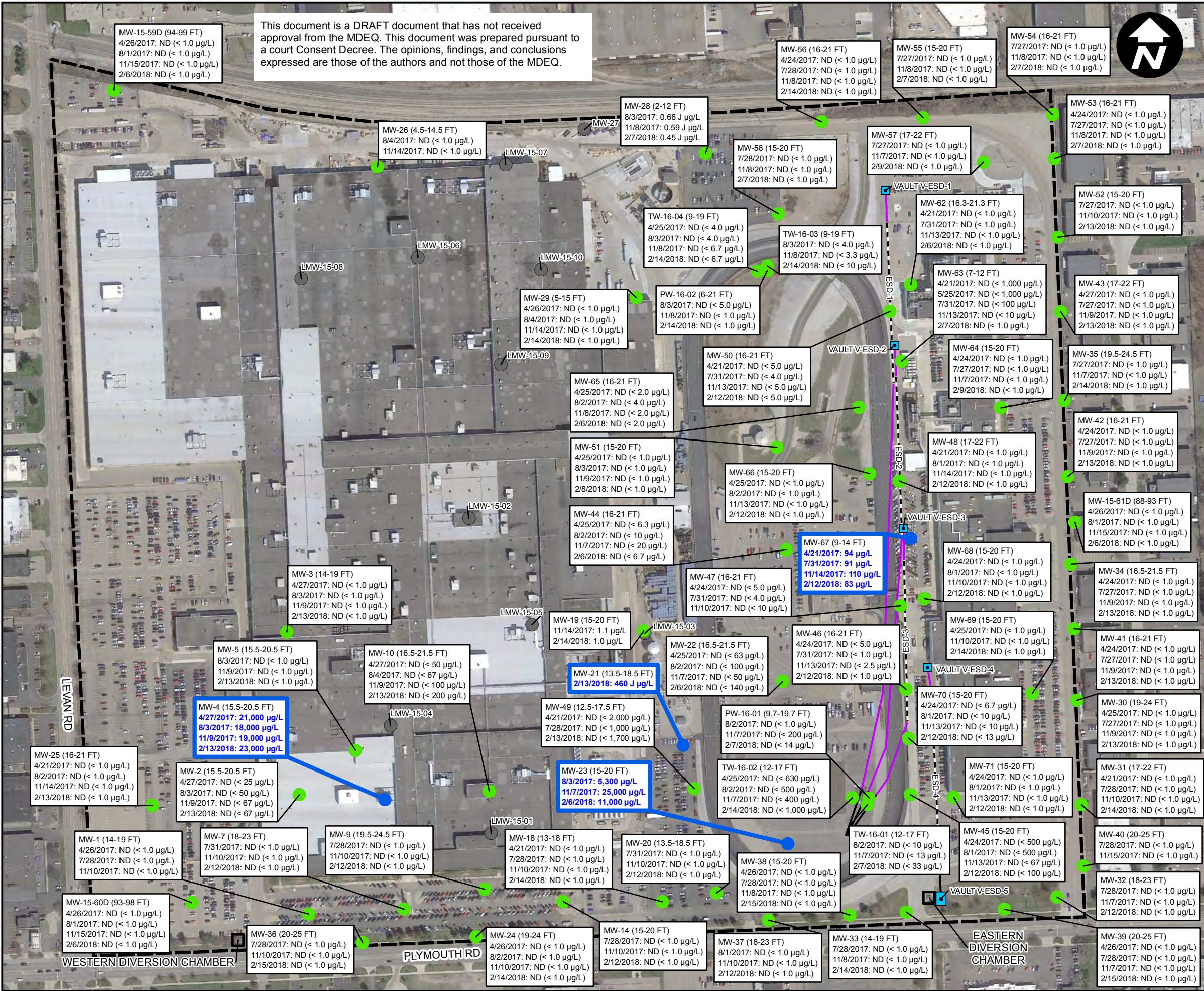
FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS
TRICHLOROETHENE IN GROUNDWATER



FIGURE

6



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LEGEND

- ON-SITE MONITORING WELL
VINYL CHLORIDE ≤ 2.0 $\mu\text{g/L}$
- ON-SITE MONITORING WELL
VINYL CHLORIDE > 2.0 $\mu\text{g/L}$
- EXCEEDANCE OF 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:
 $\mu\text{g/L}$ - MICROGRAMS PER LITER (PARTS PER BILLION)

$\leq$ - LESS THAN OR EQUAL TO

$>$ - GREATER THAN

THE NONRESIDENTIAL DRINKING WATER CRITERIA FOR VINYL CHLORIDE IS 2.0 $\mu\text{g/L}$.

THE GROUNDWATER-SURFACE WATER INTERFACE CRITERIA FOR VINYL CHLORIDE IS 13 $\mu\text{g/L}$.

FT = FEET BELOW GROUND SURFACE

"ND", "<" INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT OF 1.0 $\mu\text{g/L}$ FOR VINYL CHLORIDE

J = ESTIMATED RESULT

MW = MONITORING WELL

LMW = LIGHT NON-AQUEOUS PHASE LIQUID MONITORING WELL

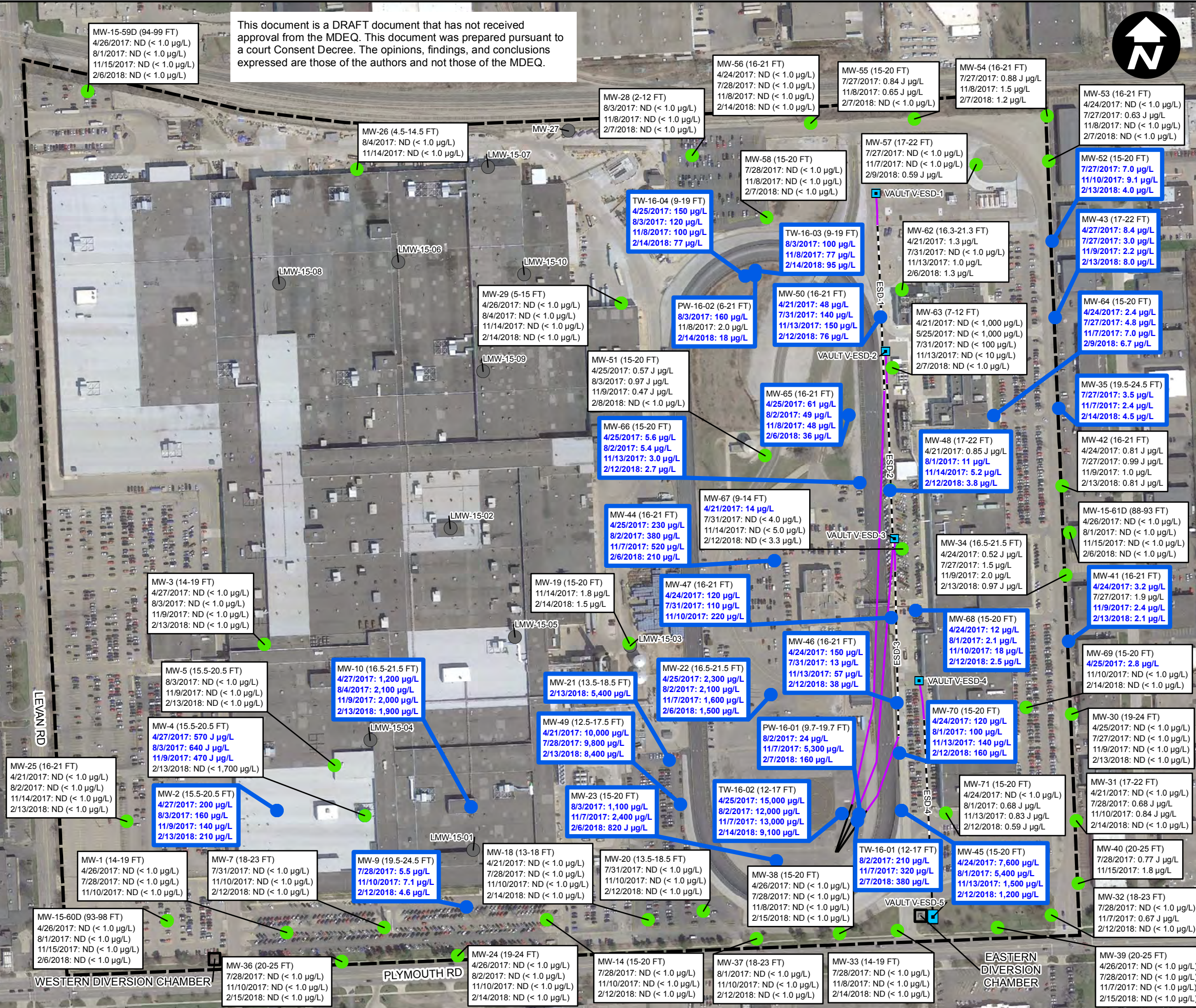
RESULTS COLLECTED DURING THE APRIL, JULY, AND NOVEMBER 2017 AND FEBRUARY 2018 SAMPLING EVENTS.

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



FORD MOTOR COMPANY LIVONIA TRANSMISSION PLANT LIVONIA, MICHIGAN

ON-SITE MONITORING WELLS VINYL CHLORIDE IN GROUNDWATER



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LEGEND

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY
- OFF-SITE MONITORING WELL
TRICHLOROETHENE $\leq$ 1.0 $\mu\text{g/L}$

NOTES:
 $\mu\text{g/L}$ - MICROGRAMS PER LITER (PARTS PER BILLION)
 $\leq$ - 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 $\mu\text{g/L}$.

THE RESIDENTIAL DRINKING WATER CRITERIA FOR TRICHLOROETHENE IS 5.0 $\mu\text{g/L}$.

THE GROUNDWATER-SURFACE WATER INTERFACE CRITERIA FOR TRICHLOROETHENE IS 200 $\mu\text{g/L}$.

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 OF 1.0 $\mu\text{g/L}$ FOR TRICHLOROETHENE.

MW = MONITORING WELL

RESULTS COLLECTED DURING THE MAY, JULY, AND NOVEMBER 2017 AND FEBRUARY 2018 SAMPLING EVENTS



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

**OFF-SITE MONITORING WELLS
TRICHLOROETHENE IN GROUNDWATER**

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for natural and built assets

FIGURE
8



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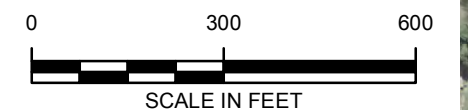


LEGEND

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY
- OFF-SITE MONITORING WELL
VINYL CHLORIDE $\leq$ 1.0 $\mu\text{g/L}$
- OFF-SITE MONITORING WELL
VINYL CHLORIDE $>$ 1.0 $\mu\text{g/L}$
- BLUE/BOLD
TEXT
EXCEEDANCE OF THE TDL FROM
PAST AND PRESENT SAMPLING EVENTS

NOTES:
 $\mu\text{g/L}$ - MICROGRAMS PER LITER (PARTS PER BILLION)
 $\leq$ - LESS THAN OR EQUAL TO
 $>$ - GREATER THAN
TDL - TARGET DETECTION LIMIT
THE PUBLISHED 2016 MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY REMEDIATION AND REDEVELOPMENT DIVISION TARGET DETECTION LIMIT FOR VINYL CHLORIDE IS 1.0 $\mu\text{g/L}$.
THE RESIDENTIAL DRINKING WATER CRITERIA FOR VINYL CHLORIDE IS 2.0 $\mu\text{g/L}$.
THE GROUNDWATER-SURFACE WATER INTERFACE CRITERIA FOR VINYL CHLORIDE IS 13 $\mu\text{g/L}$.
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 OF 1.0 $\mu\text{g/L}$ FOR VINYL CHLORIDE.
MW = MONITORING WELL
RESULTS COLLECTED DURING THE MAY, JULY, AND NOVEMBER 2017 AND FEBRUARY 2018 SAMPLING EVENTS

BLUE BOX INDICATES EXCEEDANCE OF THE TARGET DETECTION LIMIT FOR VINYL CHLORIDE ASSOCIATED WITH THE MOST RECENT SAMPLING EVENT POSSIBLE



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE MONITORING WELLS VINYL CHLORIDE IN GROUNDWATER

MW-73S (7-12 FT)
5/22/2017: 1.6 $\mu\text{g/L}$
7/26/2017: 1.3 $\mu\text{g/L}$
11/7/2017: 1.9 $\mu\text{g/L}$
2/6/2018: 1.1 $\mu\text{g/L}$

MW-73D (13.5-18.5 FT)
5/22/2017: 1.1 $\mu\text{g/L}$
7/26/2017: 0.85 J $\mu\text{g/L}$
11/7/2017: 1.3 $\mu\text{g/L}$
2/6/2018: 0.79 J $\mu\text{g/L}$

MW-79D (10-15 FT)
5/24/2017: 3.2 $\mu\text{g/L}$
7/25/2017: 4.1 $\mu\text{g/L}$
11/9/2017: 3.6 $\mu\text{g/L}$
2/8/2018: 1.9 $\mu\text{g/L}$

MW-79S (5-10 FT)
5/24/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/9/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/8/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-84 (8-13 FT)
5/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/9/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/8/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-74 (14-19 FT)
5/23/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/26/2017: 2.7 $\mu\text{g/L}$
11/7/2017: 2.4 $\mu\text{g/L}$
2/6/2018: 2.0 $\mu\text{g/L}$

MW-75D (12-17 FT)
5/23/2017: 6.4 $\mu\text{g/L}$
7/26/2017: 3.7 $\mu\text{g/L}$
11/8/2017: 4.9 J $\mu\text{g/L}$
2/6/2018: 1.9 $\mu\text{g/L}$

MW-75S (5-10 FT)
5/23/2017: 0.45 J $\mu\text{g/L}$
7/26/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/8/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/6/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-86 (12-17 FT)
5/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/26/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/10/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/8/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-77 (9-14 FT)
5/25/2017: 0.51 J $\mu\text{g/L}$
7/26/2017: 0.45 J $\mu\text{g/L}$
11/10/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/8/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-87 (14-19 FT)
5/23/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/26/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/10/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/8/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-76 (15-20 FT)
5/23/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/26/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/8/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/6/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-85 (8-13 FT)
5/25/2017: 8.6 $\mu\text{g/L}$
7/25/2017: 7.3 $\mu\text{g/L}$
11/7/2017: 7.3 $\mu\text{g/L}$
2/8/2018: 5.5 $\mu\text{g/L}$

MW-80S (7-12 FT)
5/24/2017: 4.6 $\mu\text{g/L}$
7/25/2017: 7.1 $\mu\text{g/L}$
11/8/2017: 7.6 $\mu\text{g/L}$
2/8/2018: 2.9 $\mu\text{g/L}$

MW-78 (7-12 FT)
5/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/9/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/8/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-83 (8-13 FT)
5/26/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/9/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/8/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-82D (18-23 FT)
5/24/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/8/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/6/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-82S (9-14 FT)
5/24/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/8/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/6/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

MW-81 (8-13 FT)
5/26/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
7/25/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
11/9/2017: ND ($<$ 1.0 $\mu\text{g/L}$)
2/6/2018: ND ($<$ 1.0 $\mu\text{g/L}$)

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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:

µg/m³ - MICROGRAMS PER CUBIC METER

THE MDEQ PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR CIS-1,2-DICHLOROETHENE IS 280 µg/m³

THE MDEQ PROVIDED COMMERCIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR CIS-1,2-DICHLOROETHENE IS 410 µg/m³

MDEQ = MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

FT = FEET BELOW GROUND SURFACE

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT, RANGING FROM 4.0 TO 8.3 µg/m³, FOR CIS-1,2-DICHLOROETHENE

SVMP = SOIL VAPOR MONITORING POINT

RESULTS COLLECTED DURING THE SEPTEMBER 2017, NOVEMBER 2017, AND FEBRUARY 2018 SAMPLING EVENTS.

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE SEPTEMBER 2017, NOVEMBER 2017, OR FEBRUARY 2018 SAMPLING EVENTS.

SVMP-17 AND SVMP-20 WERE NOT SAMPLED DURING THE NOVEMBER 2017 EVENT DUE TO SATURATED SCREENS.

SVMP-13 THROUGH SVMP-17, SVMP-20, AND SVMP-21 WERE NOT SAMPLED DURING THE FEBRUARY 2018 EVENT DUE TO SATURATED SCREENS.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT
CIS-1,2-DICHLOROETHENE IN SOIL GAS



FIGURE

10

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LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP
TETRACHLOROETHENE < 1,400 µg/m³
- OFF-SITE SVMP NOT SAMPLED
FOR TETRACHLOROETHENE

NOTES:

µg/m³ - MICROGRAMS PER CUBIC METER

THE MDEQ PROVIDED VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL (RESIDENTIAL AND COMMERCIAL) FOR TETRACHLOROETHENE IS 1,400 µg/m³

MDEQ = MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

FT = FEET BELOW GROUND SURFACE

J = REPORTED VALUE IS ESTIMATED

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT, RANGING FROM 6.9 TO 14 µg/m³, FOR TETRACHLOROETHENE

SVMP = SOIL VAPOR MONITORING POINT

RESULTS COLLECTED DURING THE SEPTEMBER 2017, NOVEMBER 2017, AND FEBRUARY 2018 SAMPLING EVENTS.

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE SEPTEMBER 2017, NOVEMBER 2017, OR FEBRUARY 2018 SAMPLING EVENTS.

SVMP-17 AND SVMP-20 WERE NOT SAMPLED DURING THE NOVEMBER 2017 EVENT DUE TO SATURATED SCREENS.

SVMP-13 THROUGH SVMP-17, SVMP-20, AND SVMP-21 WERE NOT SAMPLED DURING THE FEBRUARY 2018 EVENT DUE TO SATURATED SCREENS.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT
TETRACHLOROETHENE IN SOIL GAS



FIGURE

11

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LEGEND

PROPERTY BOUNDARIES

FORD PROPERTY BOUNDARY

OFF-SITE SVMP
TRICHLOROETHENE < 67 µg/m³

NOTES:

µg/m³ - MICROGRAMS PER CUBIC METER

THE MDEQ PROVIDED VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL (RESIDENTIAL AND COMMERCIAL) FOR TRICHLOROETHENE IS 67 µg/m³

MDEQ = MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

FT = FEET BELOW GROUND SURFACE

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT, RANGING FROM 5.5 TO 11 µg/m³, FOR TRICHLOROETHENE

SVMP = SOIL VAPOR MONITORING POINT

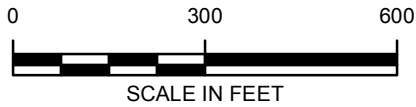
RESULTS COLLECTED DURING THE JUNE 2017, SEPTEMBER 2017, NOVEMBER 2017, AND FEBRUARY 2018 SAMPLING EVENTS.

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE SEPTEMBER 2017, NOVEMBER 2017, OR FEBRUARY 2018 SAMPLING EVENTS.

SVMP-17 AND SVMP-20 WERE NOT SAMPLED DURING THE NOVEMBER 2017 EVENT DUE TO SATURATED SCREENS.

SVMP-13 THROUGH SVMP-17, SVMP-20, AND SVMP-21 WERE NOT SAMPLED DURING THE FEBRUARY 2018 EVENT DUE TO SATURATED SCREENS.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT
TRICHLOROETHENE IN SOIL GAS

ARCADIS

Design & Consultancy
for natural and
built assets

FIGURE
12



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LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP VINYL CHLORIDE < 54 µg/m³

NOTES:

µg/m³ - MICROGRAMS PER CUBIC METER

THE MDEQ PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR VINYL CHLORIDE IS 54 µg/m³

THE MDEQ PROVIDED COMMERCIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR VINYL CHLORIDE IS 450 µg/m³

MDEQ = MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

FT = FEET BELOW GROUND SURFACE

"ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT, RANGING FROM 2.6 TO 5.3 µg/m³, FOR VINYL CHLORIDE

SVMP = SOIL VAPOR MONITORING POINT

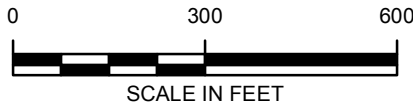
RESULTS COLLECTED DURING THE JUNE 2017, SEPTEMBER 2017, NOVEMBER 2017, AND FEBRUARY 2018 SAMPLING EVENTS.

SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE SEPTEMBER 2017, NOVEMBER 2017, OR FEBRUARY 2018 SAMPLING EVENTS.

SVMP-17 AND SVMP-20 WERE NOT SAMPLED DURING THE NOVEMBER 2017 EVENT DUE TO SATURATED SCREENS.

SVMP-13 THROUGH SVMP-17, SVMP-20, AND SVMP-21 WERE NOT SAMPLED DURING THE FEBRUARY 2018 EVENT DUE TO SATURATED SCREENS.

SVMP-11, WHICH RESIDED IN THE CITY OF LIVONIA RIGHT-OF-WAY, WAS REMOVED PER THE ADJACENT PROPERTY OWNERS REQUEST.



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VAPOR INTRUSION ASSESSMENT
VINYL CHLORIDE IN SOIL GAS



APPENDIX A

On-Site Groundwater Field Sampling Logs



ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/6/18
 Site/Well No. MW-62 Replicate No. - Code No. -
 Weather COLD, 18°F Sampling Time: Begin 1256 End 1300

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 21.15
 Depth to Water (ft bmp) 9.46
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.69
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.8704
 Gallons Pumped/Bailed Prior to Sampling ~2.5
 Sample Pump Intake Setting (ft bmp) 19.15
 Purge Time begin 1205 end 1255
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.98
 SpC (mS/cm) 4.502
 CND (mS/cm) 2.926
 Dissolved Oxygen (%) 4.0
 Dissolved Oxygen (mg/L) 0.44
 pH (s.u.) 7.07
 ORP (mV) -43.8
 Turbidity (NTU) 12.9
 Color NONE
 Odor NONE
 Appearance CLEAR WITH SUSPENDED ORANGE-COLORED PARTICLES
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DICAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

~~MI001373.0001.000002 (off)~~

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/6/18
 Site/Well No. MW-22 Replicate No. - Code No. -
 Weather SUNNY, 18°F Sampling Time: Begin 1500 End 1510

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.48
 Depth to Water (ft bmp) 7.61
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.87
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.0592
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 18.48
 Purge Time begin 1420 end 1500
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.77
 SpC (mS/cm) 7.682
 CND (mS/cm) 4.993
 Dissolved Oxygen (%) 7.2
 Dissolved Oxygen (mg/L) 0.77
 pH (s.u.) 7.55
 ORP (mV) -54.3
 Turbidity (NTU) 1.63
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DKAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	7.80
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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/6/18
 Site/Well No. MW-44 Replicate No. - Code No. -
 Weather OVERCAST, 18°F Sampling Time: Begin 1607 End 1615

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.90
 Depth to Water (ft bmp) 8.53
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.37
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.9792
 Gallons Pumped/Bailed Prior to Sampling OK 18 ~ 2
 Sample Pump Intake Setting (ft bmp) 18.90
 Purge Time begin 1535 end 1605
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.78
 SpC (mS/cm) 4.608
 CND (mS/cm) 2.995
 Dissolved Oxygen (%) 8.4
 Dissolved Oxygen (mg/L) 0.94
 pH (s.u.) 7.78
 ORP (mV) -80.2
 Turbidity (NTU) 4.96
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DKAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/6/18
 Site/Well No. MW-65 Replicate No. - Code No. -
 Weather SUNNY, 18°F Sampling Time: Begin 1702 End 1707

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 21.16
 Depth to Water (ft bmp) 10.05
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.11
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.7776
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 19.16
 Purge Time begin 1630 end 1700
 Pumping Rate (ml/min) 250
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.98
 SpC (mS/cm) 2.862
 CND (mS/cm) 1.861
 Dissolved Oxygen (%) 3.6
 Dissolved Oxygen (mg/L) 0.40
 pH (s.u.) 7.39
 ORP (mV) -85.5
 Turbidity (NTU) 1.38
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel DKAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on)

PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL :

MW-65

PROJ #:

DATE :

2/6/18

LOC:

Ford LTP, Livonia, MI

[illegible]

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/7/18
 Site/Well No. TW-16-01 Replicate No. - Code No. -
 Weather cloudy 21°F Sampling Time: Begin 1455 End 1500

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 16.87
 Depth to Water (ft bmp) 7.94
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 8.93
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.4288
 Gallons Pumped/Bailed Prior to Sampling 24
 Sample Pump Intake Setting (ft bmp) 14.57
 Purge Time begin 1345 end 1450
 Pumping Rate (ml/min) 230
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.27
 SpC (mS/cm) 3.378
 CND (mS/cm) 2.364
 Dissolved Oxygen (%) 7.1
 Dissolved Oxygen (mg/L) 0.81
 pH (s.u.) 7.35
 ORP (mV) -70.3
 Turbidity (NTU) 7.60
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DKAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	8-00
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ARCADIS

Water Sampling Log

Project Ford LTP Project No. M1001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/7/18
 Site/Well No. ~~PW-16-01~~ PW-16-01 Replicate No. - Code No. -
 Weather COLD, 20°F Sampling Time: Begin 1555 End 1600

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 21.62
 Depth to Water (ft bmp) 8.72
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.90
 Casing Diameter/Type 2" PVC
 Gallons in Well 18.963
 Gallons Pumped/Bailed Prior to Sampling ~5.0 ^{bk} ~2.0
 Sample Pump Intake Setting (ft bmp) 17.62*
 Purge Time begin 1520 end 1550
 Pumping Rate (ml/min) 250
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.50
 SpC (mS/cm) 3.000
 CND (mS/cm) 2.112
 Dissolved Oxygen (%) 4.4
 Dissolved Oxygen (mg/L) 0.50
 pH (s.u.) 7.42
 ORP (mV) -24.8
 Turbidity (NTU) 4.56
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow

Remarks * HAS A SUMP @ BOTTOM. SO, PULLED WP BY 4 FT.

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DKAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65 ^{bk}
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47 ^{bk}
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/7/18
 Site/Well No. MW-63 Replicate No. — Code No. —
 Weather COLD, 20°F Sampling Time: Begin 1705 End 1710

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 11.80
 Depth to Water (ft bmp) 8.75
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 3.05
 Casing Diameter/Type 2" PVC
 Gallons in Well 0.488
 Gallons Pumped/Bailed Prior to Sampling ~2.0
 Sample Pump Intake Setting (ft bmp) 9.80
 Purge Time begin 1630 end 1705
 Pumping Rate (ml/min) 225
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 7.53
 SpC (mS/cm) 2.791
 CND (mS/cm) 1.860
 Dissolved Oxygen (%) 5.7
 Dissolved Oxygen (mg/L) 0.66
 pH (s.u.) 7.48
 ORP (mV) -58.9
 Turbidity (NTU) 2.01
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DKAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	8.82
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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/8/18
 Site/Well No. NW-51 Replicate No. _____ Code No. _____
 Weather OVERCAST, 18°F Sampling Time: Begin 1655 End 1700

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 18.95
 Depth to Water (ft bmp) 7.89
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.06
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.7696
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 16.95
 Purge Time begin 1620 end 1655
 Pumping Rate (ml/min) 220
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 5.95
 SpC (mS/cm) 0.853
 CND (mS/cm) 0.542
 Dissolved Oxygen (%) 9.6
 Dissolved Oxygen (mg/L) 1.19
 pH (s.u.) 7.71
 ORP (mV) 42.3
 Turbidity (NTU) 3.21
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel DKAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

WELL : MW-51

MI001386.0001.20000 (on)

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MI001373.0001.00002 (off)

DATE : 2/8/18

Ford LTP, Livonia, MI

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/9/18
 Site/Well No. MW-57 Replicate No. - Code No. -
 Weather SNOWY, WINDY, 19°F Sampling Time: Begin 1140 End 1145

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 21.80
 Depth to Water (ft bmp) 7.86
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 13.94
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.2304
 Gallons Pumped/Bailed Prior to Sampling 22
 Sample Pump Intake Setting (ft bmp) 19.80
 Purge Time begin 1105 end 1135
 Pumping Rate (ml/min) 230
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.63
 SpC (mS/cm) 3.702
 CND (mS/cm) 2.757
 Dissolved Oxygen (%) 5.2
 Dissolved Oxygen (mg/L) 0.55
 pH (s.u.) 7.69
 ORP (mV) -91.5
 Turbidity (NTU) 6.41
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel DKAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001 00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/9/18
 Site/Well No. MW-64 Replicate No. — Code No. —
 Weather SNOWING, WINDY, 19°F Sampling Time: Begin 1255 End 1300

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.19
 Depth to Water (ft bmp) 10.14
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.05
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.608
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 18.19
 Purge Time begin 1215 end 1255
 Pumping Rate (ml/min) 220
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.65
 SpC (mS/cm) 3.209
 CND (mS/cm) 2.452
 Dissolved Oxygen (%) 2.6
 Dissolved Oxygen (mg/L) 0.27
 pH (s.u.) 7.97
 ORP (mV) -132.6
 Turbidity (NTU) 4.14
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow

Remarks COVERED CASING WITH JPLUG DURING SAMPLING TO PREVENT SNOW FROM ENTERING WELL

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DICAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on)

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MI001373.0001.00002 (off)

WELL :

MW 64

PROJ #:

DATE :

2/9/18

LOC:

Ford LTP, Livonia, MI

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. MW-32 Replicate No. — Code No. —
 Weather CLOUDY, 16°F Sampling Time: Begin 1015 End 1020

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 22.78
 Depth to Water (ft bmp) 10.20
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.58
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.028
 Gallons Pumped/Bailed Prior to Sampling ~2.5
 Sample Pump Intake Setting (ft bmp) 20.78
 Purge Time begin 0925 end 1015
 Pumping Rate (ml/min) 230
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.37
 SpC (mS/cm) 4.530
 CND (mS/cm) 3.095
 Dissolved Oxygen (%) 19.9
 Dissolved Oxygen (mg/L) 2.29
 pH (s.u.) 6.95
 ORP (mV) 299.1
 Turbidity (NTU) 10.7
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks —

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DLAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

2

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LOC: Ford LTP, Livonia, MI

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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. MW-37 Replicate No. - Code No. -
 Weather COLD, SUNNY, 16°F Sampling Time: Begin 1217 End 1230

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 22.80
 Depth to Water (ft bmp) 8.42
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 14.38
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.3008
 Gallons Pumped/Bailed Prior to Sampling ~2.5
 Sample Pump Intake Setting (ft bmp) 20.80
 Purge Time begin 1120 end 1215
 Pumping Rate (ml/min) 220
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.24
 SpC (mS/cm) 2.377
 CND (mS/cm) 1.707
 Dissolved Oxygen (%) 2.9
 Dissolved Oxygen (mg/L) 0.33
 pH (s.u.) 7.07
 ORP (mV) 251.4
 Turbidity (NTU) 12.7
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks DUP-01

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DKAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. MW-68 Replicate No. - Code No. -
 Weather COLD, SUNNY, 16°F Sampling Time: Begin 1417 End 1425

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.85
 Depth to Water (ft bmp) 9.73
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.12
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.6192
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 17.85
 Purge Time begin 1335 end 1415
 Pumping Rate (ml/min) 220
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.88
 SpC (mS/cm) 14.85
 CND (mS/cm) 10.85
 Dissolved Oxygen (%) 6.9
 Dissolved Oxygen (mg/L) 0.66
 pH (s.u.) 6.64
 ORP (mV) 257.5
 Turbidity (NTU) 14.1
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DKAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. MW-50 Replicate No. - Code No. -
 Weather CLOUD & SUNNY, 20s Sampling Time: Begin 1605 End 1610

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 18.44
 Depth to Water (ft bmp) 8.47
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.97
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.5952
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 16.44
 Purge Time begin 1505 end 1605
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.97
 SpC (mS/cm) 5.355
 CND (mS/cm) 3.919
 Dissolved Oxygen (%) 6.5
 Dissolved Oxygen (mg/L) 0.71
 pH (s.u.) 6.63
 ORP (mV) 259.0
 Turbidity (NTU) 20.8
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DKAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

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WELL: MW-50

PROJ #:

~~MI001373.0001.000002 (off)~~

DATE: 2/12/18

LOC: Ford LTP, Livonia, MI

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. MW-66 Replicate No. - Code No. -
 Weather Cold, 12°F Sampling Time: Begin 1835 End 1840

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.06
 Depth to Water (ft bmp) 8.03
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.03
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.7648
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 17.06
 Purge Time begin 1740 end 1835
 Pumping Rate (ml/min) 220
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 3.99
 SpC (mS/cm) 3.139
 CND (mS/cm) 1.879
 Dissolved Oxygen (%) 12.4
 Dissolved Oxygen (mg/L) 1.61
 pH (s.u.) 7.28
 ORP (mV) 244.6
 Turbidity (NTU) 78.2
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel

DRAMATH

		Well Casing Volumes				
Gal./Ft.		0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
		1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter		NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter		PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level		s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable		umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded		VOC	Volatile organic compounds

→ TRIED TO CHANGE FLOW TO CHECK IF TURBIDITY WILL REDUCE
* LOWER TEMP. SINCE IT GOT COLDER AND YSI/FIDW CELL SITTING OUTDOORS

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2
MI001373.0001.00002 (off)

WELL: MW-66

PROJ #: _____

DATE : 2/12/18

LOC: Ford LTP, Livonia, MI

[illegible]

er After Purging: 8.23

*** TURBIDITY REMAINS HIGH BUT WITHIN 10% OF ONE ANOTHER.
ALL THE READINGS WITHIN 10%.

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. MW-25 Replicate No. - Code No. -
 Weather CLOUD, OVERCAST 20s Sampling Time: Begin 1305 End 1310

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.52
 Depth to Water (ft bmp) 6.42
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 14.1
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.256
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 18.52
 Purge Time begin 1230 end 1305
 Pumping Rate (ml/min) 250
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.92
 SpC (mS/cm) 5.254
 CND (mS/cm) 3.941
 Dissolved Oxygen (%) 14.2
 Dissolved Oxygen (mg/L) 1.50
 pH (s.u.) 7.17
 ORP (mV) -45.3
 Turbidity (NTU) 3.77
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DICAMATH

Well Casing Volumes	
Gal./Ft.	0.5" = 0.01 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47
bmp	Below measuring point
°C	Degrees Celsius
ft	Feet
gpm	Gallons per minute
mg/L	Milligrams per liter
mL	Milliliter
mS/cm	Millisiemens per centimeter
msl	Mean sea level
N/A	Not applicable
NR	Not recorded
NTU	Nephelometric turbidity units
PVC	Polyvinyl chloride
s.u.	Standard units
umhos/cm	Micromhos per centimeter
VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on)

MI001373.0001.00002 (off)

WELL :

PROJ #:

DATE :

LOC:

Ford LTP, Livonia, MI

[illegible]

Water Sampling Log

Project No. MI001386.0001.20000 Page 1 of 2
Date 2/13/18
Replicate No. — Code No. —
Sampling Time: Begin 1410 End 1415

Measuring Point	TOC
MP Elevation (ft)	NA
Land Surface Elevation (ft)	NA
Sounded Well Depth (ft bmp)	20.85
Depth to Water (ft bmp)	9.74
Water-Level Elevation (ft)	NA
Water Column in Well (ft)	11.11
Casing Diameter/Type	2" PVC
Gallons in Well	1.7776
Gallons Pumped/Bailed Prior to Sampling	~2
Sample Pump Intake Setting (ft bmp)	18.85
Purge Time	begin 1335 end 1410
Pumping Rate (ml/min)	920
Evacuation Method	Peristaltic Pump

Temperature (°C)	9.49
SpC (mS/cm)	17.62
CND (mS/cm)	12.40
Dissolved Oxygen (%)	4.0
Dissolved Oxygen (mg/L)	0.43
pH (s.u.)	7.08
ORP (mV)	-80.0
Turbidity (NTU)	1.53
Color	NONE
Odor	NONE
Appearance	CLEAR
Sampling Method	Low Flow
Remarks	

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

NAMATH

		Well Casing Volumes				
Gal./Ft.		0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
		1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter		NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter		PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level		s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable		umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded		VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #: M1001373.0001.00002 (off)

LOC: Ford LTP, Livonia, MI

[illegible]

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/13/18
 Site/Well No. MW-34 Replicate No. - Code No. -
 Weather OVERCAST, 20C Sampling Time: Begin 1510 End 1515

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 21.35
 Depth to Water (ft bmp) 9.74
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.61
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.8576
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 19.35
 Purge Time begin 1435 end 1505
 Pumping Rate (ml/min) 220
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.83
 SpC (mS/cm) 5.089
 CND (mS/cm) 3.713
 Dissolved Oxygen (%) 11.9
 Dissolved Oxygen (mg/L) 1.30
 pH (s.u.) 7.29
 ORP (mV) -63.3
 Turbidity (NTU) 1.86
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel N. KAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS
YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2
~~MI001373.0001.00002 (off)~~

WELL: MW-34

PROJ #:

DATE : 2/13/18

LOC: Ford LTP, Livonia, MI

[illegible]

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/13/18
 Site/Well No. MW-52 Replicate No. -- Code No. --
 Weather OVERCAST, 20s Sampling Time: Begin 1655 End 1700

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.57
 Depth to Water (ft bmp) 8.43
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.14
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.7824
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 17.57
 Purge Time begin 1600 end 1655
 Pumping Rate (ml/min) 230
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.83
 SpC (mS/cm) 4.129
 CND (mS/cm) 2.854
 Dissolved Oxygen (%) 4.5
 Dissolved Oxygen (mg/L) 0.51
 pH (s.u.) 7.39
 ORP (mV) -74.0
 Turbidity (NTU) 13.0
 Color None
 Odor None
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DCAMATH

Well Casing Volumes	
Gal./Ft.	0.5" = 0.01 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47
bmp	Below measuring point
°C	Degrees Celsius
ft	Feet
gpm	Gallons per minute
mg/L	Milligrams per liter
mL	Milliliter
mS/cm	Millisiemens per centimeter
msl	Mean sea level
N/A	Not applicable
NR	Not recorded
NTU	Nephelometric turbidity units
PVC	Polyvinyl chloride
s.u.	Standard units
umhos/cm	Micromhos per centimeter
VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2
MI001373.0001.00002 (off)

WELL : MW-52

PROJ #:

DATE : 2/13/18

LOC: Ford LTP, Livonia, MI

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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/14/18
 Site/Well No. MW-19 Replicate No. — Code No. —
 Weather SUNNY, 20s Sampling Time: Begin 1010 End 1015

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.84
 Depth to Water (ft bmp) 6.23
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 13.61
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.1776
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 17.34
 Purge Time begin 0905 end 1010
 Pumping Rate (ml/min) 225
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.29
 SpC (mS/cm) 8.222
 CND (mS/cm) 5.756
 Dissolved Oxygen (%) 3.7
 Dissolved Oxygen (mg/L) 0.42
 pH (s.u.) 6.90
 ORP (mV) -99.3
 Turbidity (NTU) 4.20
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel DKAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

MI001386.0001.20000 (on) PAGE 2 OF 2
MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/14/18
 Site/Well No. MW-29 Replicate No. - Code No. -
 Weather SUNNY, 21°F Sampling Time: Begin 1130 End 1135

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 14.84
 Depth to Water (ft bmp) 5.52
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.32
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.4912
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 12.84
 Purge Time begin 1055 end 1125
 Pumping Rate (ml/min) 220
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.21
 SpC (mS/cm) 7.829
 CND (mS/cm) 5.467
 Dissolved Oxygen (%) 2.3
 Dissolved Oxygen (mg/L) 0.25
 pH (s.u.) 7.37
 ORP (mV) -66.6
 Turbidity (NTU) 1.26
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel SCAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Total Depth of Well:	14.84
Depth To Water Before Purging:	5.52
Depth To Water After Purging:	5.63

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/14/18
 Site/Well No. MW-33 Replicate No. - Code No. -
 Weather SUNNY, 20s Sampling Time: Begin End

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 18.74
 Depth to Water (ft bmp) 8.63
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.11
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.6176
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 16.74
 Purge Time begin 1450 end 1555
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.64
 SpC (mS/cm) 3.723
 CND (mS/cm) 2.693
 Dissolved Oxygen (%) 4.4
 Dissolved Oxygen (mg/L) 0.48
 pH (s.u.) 7.03
 ORP (mV) -67.2
 Turbidity (NTU) 8.58
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel DIAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2
MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

ENFM005-YSIlog.xls

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/6/18
 Site/Well No. MW-15-60D Replicate No. _____ Code No. _____
 Weather 10°F Sunny Sampling Time: Begin 1021 End 1030

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 99.42
 Depth to Water (ft bmp) 19.61
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 79.81
 Casing Diameter/Type 2" PVC
 Gallons in Well 127
 Gallons Pumped/Bailed Prior to Sampling 0.28 gal/min
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 0945 end 1030
 Pumping Rate (ml/min) 10 gal
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 13.12
 SpC (mS/cm) 0.704
 CND (mS/cm) 0.544
 Dissolved Oxygen (%) 4.2
 Dissolved Oxygen (mg/L) 0.42
 pH (s.u.) 8.29
 ORP (mV) -109.4
 Turbidity (NTU) 5.50
 Color Clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

* pumping rate lowest possible before subpump would turn off.

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/6/18
 Site/Well No. MW-15-59D Replicate No. _____ Code No. _____
 Weather Sunny 18°F Sampling Time: Begin 1212 End 1215

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 100.01
 Depth to Water (ft bmp) 21.44
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 78.57
 Casing Diameter/Type 2" PVC
 Gallons in Well 12.6
 Gallons Pumped/Bailed Prior to Sampling ~ 9.0 gal
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1130 end 1215
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.56
 SpC (mS/cm) 0.581
 CND (mS/cm) 0.444
 Dissolved Oxygen (%) 3.2
 Dissolved Oxygen (mg/L) 0.31
 pH (s.u.) 8.41
 ORP (mV) -165.6
 Turbidity (NTU) 9.9
 Color clear
 Odor none
 Appearance -
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

* pumping rate lowest possible before subpump would turn off

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	21.30
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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/6/18
 Site/Well No. MW-15-61D Replicate No. Code No.
 Weather Sunny, 18°F Sampling Time: Begin 1432 End 1435

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 94.71
 Depth to Water (ft bmp) 25.79
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 68.92
 Casing Diameter/Type 2" PVC
 Gallons in Well 11.02
 Gallons Pumped/Bailed Prior to Sampling 5 gal
 Sample Pump Intake Setting (ft bmp) *
 Purge Time begin 1350 end 1435
 Pumping Rate (ml/min)
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.71
 SpC (mS/cm) 1.246
 CND (mS/cm) 0.905
 Dissolved Oxygen (%) 5.9
 Dissolved Oxygen (mg/L) 0.66
 pH (s.u.) 7.73
 ORP (mV) -130.5
 Turbidity (NTU) 9.9
 Color Clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

* lowest pumping rate before subpump would shut off.

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Total Depth of Well:	94.71	
Depth To Water Before Purging:	25.71	
Depth To Water After Purging:		

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/6/18
 Site/Well No. MW-23 Replicate No. _____ Code No. _____
 Weather Sunny 10°F Sampling Time: Begin 1602 End 1605

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.54
 Depth to Water (ft bmp) 6.93
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.61
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.01
 Gallons Pumped/Bailed Prior to Sampling _____
 Sample Pump Intake Setting (ft bmp) 118L
 Purge Time begin 1520 end 1605
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.04
 SpC (mS/cm) 8.255
 CND (mS/cm) 6.214
 Dissolved Oxygen (%) 6.0
 Dissolved Oxygen (mg/L) 0.63
 pH (s.u.) 7.87
 ORP (mV) -92.8
 Turbidity (NTU) 3.21
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

ENFM005-YSIlog.xls

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/7/18
 Site/Well No. MW-28 Replicate No. _____ Code No. _____
 Weather 28°F snow/dandy Sampling Time: Begin 1257 End 1300

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 11.65
 Depth to Water (ft bmp) 4.62
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 7.03
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.12
 Gallons Pumped/Bailed Prior to Sampling ~ 3 gal
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1220 end 1300
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.61
 SpC (mS/cm) 9.797
 CND (mS/cm) 6.728
 Dissolved Oxygen (%) 9.5
 Dissolved Oxygen (mg/L) 1.07
 pH (s.u.) 7.37
 ORP (mV) 27.3
 Turbidity (NTU) 1.98
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/7/18
 Site/Well No. MW-55 Replicate No. _____ Code No. _____
 Weather p. cloudy 28°F Sampling Time: Begin 1852 End 1355

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.89 AB 19.64
 Depth to Water (ft bmp) 8.78
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.86
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.73
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1815 end 1355
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.61
 SpC (mS/cm) 7.852
 CND (mS/cm) 5.995
 Dissolved Oxygen (%) 22.7
 Dissolved Oxygen (mg/L) 2.28
 pH (s.u.) 7.51
 ORP (mV) -90.1
 Turbidity (NTU) 7.56
 Color Clear
 Odor None
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

Ford LTP, Livonia, MI

LOC:

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/7/18
 Site/Well No. MW-54 Replicate No. _____ Code No. _____
 Weather Mostly cloudy 28°F Sampling Time: Begin 1507 End 1510

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.56
 Depth to Water (ft bmp) 8.07
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.49
 Casing Diameter/Type 2" PVC
 Gallons in Well ~ 1.99
 Gallons Pumped/Bailed Prior to Sampling ~ 2.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1430 end 1510
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.95
 SpC (mS/cm) 8.962
 CND (mS/cm) 10.558
 Dissolved Oxygen (%) 6.0
 Dissolved Oxygen (mg/L) 0.64
 pH (s.u.) 7.41
 ORP (mV) -127.6
 Turbidity (NTU) 5.87
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
_____	_____	_____	_____
_____	_____	_____	_____

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Sampled	@ 1507
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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/7/18
 Site/Well No. MW-58 Replicate No. _____ Code No. _____
 Weather cloudy 28°F Sampling Time: Begin 1602 End 1605

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.68
 Depth to Water (ft bmp) 7.98
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.70
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.03
 Gallons Pumped/Bailed Prior to Sampling ~2.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1520 end 1605
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.15
 SpC (mS/cm) 5.691
 CND (mS/cm) 4.294
 Dissolved Oxygen (%) 7.0
 Dissolved Oxygen (mg/L) 0.74
 pH (s.u.) 7.49
 ORP (mV) -44.8
 Turbidity (NTU) 2.81
 Color Clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
_____	_____	_____	_____
_____	_____	_____	_____

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/7/10
 Site/Well No. MW-58 Replicate No. _____ Code No. _____
 Weather _____ Sampling Time: Begin 1157 End 1700

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.40
 Depth to Water (ft bmp) 5.63
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) _____
 Casing Diameter/Type 2" PVC
 Gallons in Well _____
 Gallons Pumped/Bailed Prior to Sampling ~ 2.5
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1120 end 1700
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.61
 SpC (mS/cm) 9.567
 CND (mS/cm) 7.19
 Dissolved Oxygen (%) 7.9
 Dissolved Oxygen (mg/L) 0.83
 pH (s.u.) 7.20
 ORP (mV) -85.6
 Turbidity (NTU) 4.2p
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

ENFM005-YSIlog.xls

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. MW-46 Replicate No. _____ Code No. _____
 Weather 21°F Sunny Sampling Time: Begin 1152 End 1155

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.81
 Depth to Water (ft bmp) 10.17
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.63
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.54
 Gallons Pumped/Bailed Prior to Sampling 1.54 ~ 4.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1040 end 1156
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.98
 SpC (mS/cm) 12.25
 CND (mS/cm) 9.203
 Dissolved Oxygen (%) 7.4
 Dissolved Oxygen (mg/L) 0.76
 pH (s.u.) 7.11
 ORP (mV) 25.6
 Turbidity (NTU) 4.22
 Color Clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. MW-71 Replicate No. _____ Code No. _____
 Weather 21°F Sunny Sampling Time: Begin 1312 End 1315

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.12
 Depth to Water (ft bmp) 10.74
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.38
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.5
 Gallons Pumped/Bailed Prior to Sampling ~ 2.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1235 end 1315
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 15.80
 SpC (mS/cm) 21.26
 CND (mS/cm) 17.35
 Dissolved Oxygen (%) 5.3
 Dissolved Oxygen (mg/L) 0.49
 pH (s.u.) 6.91
 ORP (mV) -106.2
 Turbidity (NTU) 206
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel A. Ribel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. MW-7 Replicate No. _____ Code No. _____
 Weather Sunny 21°F Sampling Time: Begin 1522 End 1525

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 22.50
 Depth to Water (ft bmp) 7.70
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 14.8
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.36
 Gallons Pumped/Bailed Prior to Sampling ~ 3.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1430 end 1525
 Pumping Rate (ml/min) 180
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.15
 SpC (mS/cm) 11.72
 CND (mS/cm) 8.854
 Dissolved Oxygen (%) 3.4
 Dissolved Oxygen (mg/L) 0.35
 pH (s.u.) 7.43
 ORP (mV) -123
 Turbidity (NTU) 1.21
 Color Clear
 Odor None
 Appearance _____
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/12/18
 Site/Well No. Sunny 29°F Replicate No. Code No.
 Weather MW-67 Sampling Time: Begin 1647 End 1650

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 14.02
 Depth to Water (ft bmp) 10.01
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 4.01
 Casing Diameter/Type 2" PVC
 Gallons in Well 0.64
 Gallons Pumped/Bailed Prior to Sampling ~1.5
 Sample Pump Intake Setting (ft bmp)
 Purge Time begin 1410 AP end 1650
 Pumping Rate (ml/min) 1610 1820
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.01
 SpC (mS/cm) 10.21
 CND (mS/cm) 7.291
 Dissolved Oxygen (%) 6.1
 Dissolved Oxygen (mg/L) 0.73
 pH (s.u.) 7.04
 ORP (mV) 3.5
 Turbidity (NTU) 2.31
 Color clear
 Odor none
 Appearance -
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/13/18
 Site/Well No. MW-4 Replicate No. _____ Code No. _____
 Weather Indoors Sampling Time: Begin 1412 End 1415

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.16
 Depth to Water (ft bmp) 8.50
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.66
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.86
 Gallons Pumped/Bailed Prior to Sampling ~1.5
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1330 end 1415
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 21.41
 SpC (mS/cm) 18.98
 CND (mS/cm) 17.67
 Dissolved Oxygen (%) 4.8
 Dissolved Oxygen (mg/L) 0.40
 pH (s.u.) 7.15
 ORP (mV) -142.3
 Turbidity (NTU) 2.04
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel A. Rubel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/13/18
 Site/Well No. Indoors Replicate No. _____ Code No. _____
 Weather MW-2 Sampling Time: Begin 1222 End 1225

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.55
 Depth to Water (ft bmp) 7.42
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.13
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.94
 Gallons Pumped/Bailed Prior to Sampling ~ 1.5
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1137 end 1225
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 21.11
 SpC (mS/cm) 23.50
 CND (mS/cm) 21.76
 Dissolved Oxygen (%) 5.6
 Dissolved Oxygen (mg/L) 0.46
 pH (s.u.) 7.24
 ORP (mV) -141.9
 Turbidity (NTU) 5.23
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
_____	_____	_____	_____
_____	_____	_____	_____

Sampling Personnel _____

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/13/18
 Site/Well No. MW-5 Replicate No. _____ Code No. _____
 Weather Indoors Sampling Time: Begin 1107 End 1110

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.54
 Depth to Water (ft bmp) 7.70
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.84
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.89
 Gallons Pumped/Bailed Prior to Sampling ~ 1.5
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1030 end 1110
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 21.21
 SpC (mS/cm) 24.31
 CND (mS/cm) 22.55
 Dissolved Oxygen (%) 4.6
 Dissolved Oxygen (mg/L) 0.37
 pH (s.u.) 7.46
 ORP (mV) -159.1
 Turbidity (NTU) 0.88
 Color clear w/ black flecks
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/2/18
 Site/Well No. MW-3 Replicate No. _____ Code No. _____
 Weather Indoors Sampling Time: Begin 1007 End 1010

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 18.87
 Depth to Water (ft bmp) 7.70
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.17
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.78
 Gallons Pumped/Bailed Prior to Sampling ~ 2.0 gallons
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 927 end 1010
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 20.71
 SpC (mS/cm) 23.70
 CND (mS/cm) 21.76
 Dissolved Oxygen (%) 8.3
 Dissolved Oxygen (mg/L) 0.68
 pH (s.u.) 7.83
 ORP (mV) -147.8
 Turbidity (NTU) 2.88
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/13/18
 Site/Well No. MW-10 Replicate No. _____ Code No. _____
 Weather Indoors Sampling Time: Begin 1522 End 1525

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 15.89
 Depth to Water (ft bmp) 9.01
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 6.88
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.10
 Gallons Pumped/Bailed Prior to Sampling ~1.5
 Sample Pump Intake Setting (ft bmp) ~
 Purge Time begin 1435 end 1525
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 21.32
 SpC (mS/cm) 15.24
 CND (mS/cm) 14.15
 Dissolved Oxygen (%) 4.7
 Dissolved Oxygen (mg/L) 0.40
 pH (s.u.) 7.11
 ORP (mV) -112.5
 Turbidity (NTU) 9.0
 Color Clear
 Odor none
 Appearance _____
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel A. Rubel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/14/18
 Site/Well No. TW-116-04 Replicate No. _____ Code No. _____
 Weather 20°F cloudy Sampling Time: Begin 1042 End 1045

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 18.73
 Depth to Water (ft bmp) 16.62
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.11
 Casing Diameter/Type 2" PVC
 Gallons in Well _____
 Gallons Pumped/Bailed Prior to Sampling ~2.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 0935 end 1045
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.04
 SpC (mS/cm) 1.905
 CND (mS/cm) 1.325
 Dissolved Oxygen (%) 5.3
 Dissolved Oxygen (mg/L) 0.61
 pH (s.u.) 7.06
 ORP (mV) -97.7
 Turbidity (NTU) 13.9
 Color clear w/ mustard pieces
 Odor none
 Appearance _____
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel A. Ribel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Sampled @ 1042.

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/14/18
 Site/Well No. PW-16-02 Replicate No. _____ Code No. _____
 Weather Sunny 35°F Sampling Time: Begin 1202 End 1205

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 17.15
 Depth to Water (ft bmp) 6.88
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.27
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.64
 Gallons Pumped/Bailed Prior to Sampling ~2.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1125 end 1205
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.59
 SpC (mS/cm) 1.699
 CND (mS/cm) 1.232
 Dissolved Oxygen (%) 6.6
 Dissolved Oxygen (mg/L) 0.73
 pH (s.u.) 7.02
 ORP (mV) 2.7
 Turbidity (NTU) 0.68
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks collected msl/msd

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel A. Rubel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/14/18
 Site/Well No. TW-16-03 Replicate No. _____ Code No. _____
 Weather Sunny 34°F Sampling Time: Begin 1357 End 1400

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 18.75
 Depth to Water (ft bmp) 6.26
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.49
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.99
 Gallons Pumped/Bailed Prior to Sampling ~4.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1245 end 1400
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.06
 SpC (mS/cm) 2.059
 CND (mS/cm) 1.471
 Dissolved Oxygen (%) 3.8
 Dissolved Oxygen (mg/L) 0.42
 pH (s.u.) 6.98
 ORP (mV) -91.1
 Turbidity (NTU) —
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow

Remarks Turbidimeter CAPERROR @1320

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel A. Rubel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Sampled @	1357
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1320 - Turbidimetric CAP ERROR

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/14/18
 Site/Well No. TW-16-02 Replicate No. _____ Code No. _____
 Weather Sunny 43F Sampling Time: Begin 1612 End 1615

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 17.15
 Depth to Water (ft bmp) 7.84
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.31
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.49
 Gallons Pumped/Bailed Prior to Sampling ~2.0
 Sample Pump Intake Setting (ft bmp) 1622
 Purge Time begin 1622 end 1615
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.12
 SpC (mS/cm) 5.876
 CND (mS/cm) 4.318
 Dissolved Oxygen (%) 5.1
 Dissolved Oxygen (mg/L) 0.55
 pH (s.u.) 7.29
 ORP (mV) -117.7
 Turbidity (NTU) 3.40
 Color Clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel A. Rubel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Sampled @ 16 Hz

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-12-18
 Site/Well No. MW-70 Replicate No. ~ Code No. -
 Weather 24° SUNNY / CLEAR Sampling Time: Begin 935 End 1035

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.12
 Depth to Water (ft bmp) 10.91
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.21
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.47
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 935 end 1035
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.19
 SpC (mS/cm) 4.931
 CND (mS/cm) -
 Dissolved Oxygen (%) 2.0
 Dissolved Oxygen (mg/L) 0.21
 pH (s.u.) 12.56
 ORP (mV) -47.4
 Turbidity (NTU) 2.34
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
_____	_____	_____	_____
_____	_____	_____	_____

Sampling Personnel KACAN BRIGGS

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Total Depth of Well:

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-12-18
 Site/Well No. MV-45 Replicate No. — Code No. —
 Weather 24°F Sunny Sampling Time: Begin 1134 End 1234

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.72
 Depth to Water (ft bmp) 10.41
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.31
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.49
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1134 end 1234
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.76
 SpC (mS/cm) 2.863
 CND (mS/cm) —
 Dissolved Oxygen (%) 2.6
 Dissolved Oxygen (mg/L) 0.27
 pH (s.u.) 10.60
 ORP (mV) -58.0
 Turbidity (NTU) 21.1
 Color CLEAR
 Odor None
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KARAN BRIGGS

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-45

PROJ #:

DATE: 2-12-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1134	11.59	2.089	-	23.3	2.40	9.85	52.7	200	85.8	10.41
1139	11.62	2.092	-	7.6	0.83	10.33	46.1	200	88.6	10.41
1144	11.69	2.317	-	5.5	0.59	11.10	35.8	200	77.5	10.41
1149	11.51	2.812	-	4.9	0.53	11.19	8.5	200	73.1	10.41
1154	11.51	2.966	-	5.3	0.57	10.97	-27.5	200	68.0	10.41
1159	11.58	2.993	-	5.1	0.56	10.77	-36.6	200	59.0	10.41
1204	11.76	3.029	-	5.4	0.58	10.75	-43.5	200	50.3	10.41
1209	11.84	3.092	-	4.2	0.45	10.81	-47.5	200	46.3	10.41
1214	12.07	3.116	-	3.6	0.38	10.51	-46.6	200	36.6	10.41
1219	12.16	3.095	-	4.3	0.45	10.62	-50.1	200	31.7	10.41
1224	12.61	2.992	-	2.9	0.30	10.49	-55.6	200	27.4	10.41
1229	12.66	2.949	-	2.7	0.28	10.53	-57.7	200	24.6	10.41
1234	12.76	2.863	-	2.6	0.27	10.60	-58.0	200	21.1	10.41
Total Depth of Well:	19.72									
Depth To Water Before Purging:				10.41						
Depth To Water After Purging:				10.41						

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Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-12-18
 Site/Well No. MV-9 Replicate No. - Code No. -
 Weather 24°F CLEAR Sampling Time: Begin 1316 End 1416

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 24.35
 Depth to Water (ft bmp) 7.19
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 17.14
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.75
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 1316 end 1416
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.85
 SpC (mS/cm) 5.783
 CND (mS/cm) -
 Dissolved Oxygen (%) 1.6
 Dissolved Oxygen (mg/L) 0.17
 pH (s.u.) -
 ORP (mV) -96.3
 Turbidity (NTU) 11.7
 Color CLEAR
 Odor None
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel JACAN BRIGGS

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Total Depth of Well:	24.35
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Depth To Water Before Purging:

Depth To Water After Purging:

Water Sampling Log

Evacuation Data

Evacuation Method	<u>Peristaltic Pump</u>
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Field Parameters

Sampling Personnel KALAN BRIGGS

mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds
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YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-12-18
 Site/Well No. MW-20 Replicate No. — Code No. —
 Weather 24°F CLEAR Sampling Time: Begin 1636 End 1736

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 16.62
 Depth to Water (ft bmp) 7.20
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.42
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.51
 Gallons Pumped/Bailed Prior to Sampling 3.16
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1636 end 1736
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.05
 SpC (mS/cm) 17.82
 CND (mS/cm) —
 Dissolved Oxygen (%) 1.2
 Dissolved Oxygen (mg/L) 0.13
 pH (s.u.) 7.73
 ORP (mV) -118.4
 Turbidity (NTU) 23.5
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks —

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

Sampling Personnel KALAN ORIGGS

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-¼" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-½" = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

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MI001373.0001.00002 (off)

WELL: MW-20

PROJ #:

DATE: 2-12-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1636	11.16	14.38	-	18.1	1.77	7.83	89	200	103	7.20
1641	11.43	15.42	-	1.8	0.18	7.79	-66.2	200	85.2	7.20
1646	11.35	16.48	-	0.5	0.04	7.81	-100.3	200	51.9	7.20
1651	11.19	16.74	-	0.0	0.0	7.80	-117.9	200	41.8	7.20
1656	11.04	16.72	-	0.2	0.02	7.77	-123.2	200	40.4	7.20
1701	10.97	16.87	-	0.0	0.00	7.75	-125.4	200	30.8	7.20
1706	10.96	17.24	-	0.0	0.00	7.74	-126.8	200	28.7	7.20
1711	11.23	17.56	-	0.2	0.02	7.74	-127.2	200	28.0	7.20
1716	11.13	17.67	-	0.2	0.02	7.74	-127.0	200	27.5	7.20
1721	11.13	17.79	-	0.5	0.02	7.75	-125.7	200	26.9	7.20
1726	11.09	17.81	-	0.7	0.08	7.74	-124.8	200	31.1	7.20
1731	11.07	17.83	-	1.1	0.12	7.74	-123	200	25.3	7.20
1736	11.05	17.82	-	1.2	0.13	7.73	-118.4	200	23.5	7.20
Total Depth of Well:	16.62									
Depth To Water Before Purging:				7.20						
Depth To Water After Purging:				7.20						

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Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-13-18
 Site/Well No. MW-48 Replicate No. — Code No. —
 Weather 14°F PARTLY CLOUDY Sampling Time: Begin 817 End 917

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 26.35
 Depth to Water (ft bmp) 10.68
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.67
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.55
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 817 end 917
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.77
 SpC (mS/cm) 8.600
 CND (mS/cm) —
 Dissolved Oxygen (%) -0.1
 Dissolved Oxygen (mg/L) -0.01
 pH (s.u.) 7.25
 ORP (mV) -100.7
 Turbidity (NTU) 16.6
 Color CLEAR
 Odor None
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks DUP-02-021318 TAKEN

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

Sampling Personnel KALAN BRIGGS

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-48

PROJ #:

DATE: 2-13-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
817	11.68	9.456	-	98.6	9.59	8.50	144.4	200	32.6	10.77
822	10.95	10.25	-	5.1	0.55	8.28	114.8	200	33.8	10.68
827	11.15	10.39	-	2.9	0.31	8.16	31.9	200	31.4	10.68
832	11.19	10.55	-	1.1	0.12	8.09	-25.0	200	27.2	10.68
837	11.23	10.46	-	0.5	0.05	8.01	-60.9	200	37.6	10.68
842	11.27	10.80	-	0.3	0.02	8.02	-76.3	200	42.0	10.68
847	11.28	10.01	-	0.2	0.02	7.95	-93.7	200	33.2	10.68
852	11.19	9.715	-	0.1	0.02	7.94	-101.8	200	32.9	10.68
857	11.20	9.465	-	-0.1	-0.01	7.88	-107.6	200	29.5	10.68
902	11.41	9.109	-	-0.1	-0.01	7.85	-111.1	200	25.0	10.68
907	11.44	8.912	-	-0.1	-0.01	7.81	-110.7	200	26.2	10.68
912	11.57	8.760	-	-0.1	-0.01	7.77	-108.4	200	21.5	10.68
917	11.77	8.600	-	-0.1	-0.01	7.75	-100.7	200	16.6	10.68
Total Depth of Well:	20.35									
Depth To Water Before Purging:				10.77						
Depth To Water After Purging:				10.68						

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Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-13-18
 Site/Well No. MW-21 Replicate No. - Code No. -
 Weather 40°F PARTLY CLOUDY Sampling Time: Begin 1011 End 1111

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 17.74
 Depth to Water (ft bmp) 7.94
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.8
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.57
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 1011 end 1111
 Pumping Rate (ml/min) 2.00
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.32
 SpC (mS/cm) 11.14
 CND (mS/cm) -
 Dissolved Oxygen (%) 10.4
 Dissolved Oxygen (mg/L) 1.12
 pH (s.u.) 6.78
 ORP (mV) -46.0
 Turbidity (NTU) 15.1
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks MS/MSD TAKEN

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	7.94
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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-13-18
 Site/Well No. MW-49 Replicate No. — Code No. —
 Weather 14°F PARTLY CLOUDY Sampling Time: Begin 1140 End 1235

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 17.44
 Depth to Water (ft bmp) 7.44
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.8
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.57
 Gallons Pumped/Bailed Prior to Sampling 2.84
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1140 end 1235
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.20
 SpC (mS/cm) 2.349
 CND (mS/cm) —
 Dissolved Oxygen (%) 0.1
 Dissolved Oxygen (mg/L) 0.61
 pH (s.u.) 7.16
 ORP (mV) -127.7
 Turbidity (NTU) 7.83
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-¼" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-½" = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

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MI001373.0001.00002 (off)

WELL: MW-49

PROJ #:

DATE: 2-13-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1140	10.69	3.894	8	7.6	0.79	7.10	-87.6	200	52.2	7.64
1145	10.50	3.642	—	1.1	0.12	7.10	-94.5	200	27.3	7.64
1150	10.85	3.420	—	1.1	0.12	7.05	-102.6	200	31.7	7.64
1155	10.88	3.310	—	0.7	0.00	7.10	-108.2	200	28.0	7.64
1200	11.00	3.065	—	0.6	0.07	7.11	-113.1	200	22.4	7.64
1205	10.90	2.913	—	0.4	0.04	7.13	-116.4	200	15.7	7.64
1210	10.79	2.760	—	0.3	0.03	7.14	-119.8	200	13.5	7.64
1215	10.75	2.663	—	0.2	0.02	7.15	-121.8	200	11.5	7.64
1220	10.93	2.587	—	0.1	0.01	7.16	-123.7	200	12.9	7.64
1225	11.05	2.523	—	-0.1	-0.01	7.14	-124.9	200	9.03	7.64
1230	11.23	2.442	—	-0.1	-0.01	7.16	-126.4	200	8.66	7.64
1235	11.20	2.399	—	0.1	0.01	7.16	-127.7	200	7.83	7.64
Total Depth of Well:	17.44									
Depth To Water Before Purging:				7.64						
Depth To Water After Purging:				7.64						

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-13-18
 Site/Well No. MW-30 Replicate No. - Code No. -
 Weather 19°F PARTLY CLOUDY Sampling Time: Begin 1336 End 1426

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 24.69
 Depth to Water (ft bmp) 11.22
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 13.47
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.16
 Gallons Pumped/Bailed Prior to Sampling 2.58
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 1336 end 1426
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 12.16
 SpC (mS/cm) 3.177
 CND (mS/cm) -
 Dissolved Oxygen (%) 1.5
 Dissolved Oxygen (mg/L) 0.16
 pH (s.u.) 7.35
 ORP (mV) -85.6
 Turbidity (NTU) 5.67
 Color CLEAR
 Odor None
 Appearance Normal
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BELGGS

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: HW-30

PROJ #:

DATE: 2-13-18

LOC: Ford LTP, Livonia, MI

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Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-13-18
 Site/Well No. MW-42 Replicate No. — Code No. —
 Weather 20°F PARTLY CLOUDY Sampling Time: Begin 1445 End 1545

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.55
 Depth to Water (ft bmp) 9.57
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.48
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.76
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1445 end 1545
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.86
 SpC (mS/cm) 3.108
 CND (mS/cm) —
 Dissolved Oxygen (%) 0.1
 Dissolved Oxygen (mg/L) 0.61
 pH (s.u.) 7.18
 ORP (mV) -107.3
 Turbidity (NTU) 42.0
 Color CLEAR
 Odor None
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks —

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BEIGGS

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-¼" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-½" = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	9.57
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Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-13-18
 Site/Well No. MW-43 Replicate No. — Code No. —
 Weather 20°F PARTLY CLOUDY Sampling Time: Begin 1607 End 1707

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 21.80
 Depth to Water (ft bmp) 8.72
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 13.08
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.09
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1607 end 1707
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.75
 SpC (mS/cm) 4.341
 CND (mS/cm) —
 Dissolved Oxygen (%) 0.6
 Dissolved Oxygen (mg/L) 0.07
 pH (s.u.) 7.46
 ORP (mV) -114.1
 Turbidity (NTU) 45.7
 Color LLGAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks —

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel YACAN BRIGGS

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-¼" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-½" = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-43

PROJ #:

DATE: 2-13-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1607	11.95	4.371	-	9.9	0.99	7.37	-9.9	200	96.8	8.72
1612	11.52	4.361	-	2.0	0.21	7.37	-46.9	200	82.2	8.72
1617	11.34	4.364	-	1.2	0.12	7.37	-63.7	200	77.6	8.72
1622	11.28	4.353	-	0.8	0.09	7.37	-78.1	200	77.7	8.72
1627	11.59	4.342	-	0.8	0.08	7.38	-91.2	200	63.7	8.72
1632	11.74	4.341	-	0.5	0.06	7.39	-99.2	200	67.4	8.72
1637	11.72	4.340	-	0.5	0.05	7.39	-101.6	200	59.6	8.72
1642	11.70	4.338	-	4.1	0.44	7.38	-105.3	200	52.2	8.72
1647	11.75	4.334	-	1.1	0.11	7.38	-108.8	200	47.2	8.72
1652	11.78	4.336	-	0.8	0.08	7.39	-108.3	200	47.1	8.72
1657	11.81	4.342	-	0.8	0.09	7.39	-109.4	200	47.3	8.72
1702	11.76	4.344	-	0.6	0.06	7.39	-111.4	200	42.5	8.72
1707	11.75	4.341	-	0.6	0.07	7.40	-114.1	200	45.7	8.72
Total Depth of Well:	21.80									
Depth To Water Before Purging:				8.72						
Depth To Water After Purging:				8.72						

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2-14-18
 Site/Well No. MW-69 Replicate No. - Code No. -
 Weather 20°F CLOUDY Sampling Time: Begin 804 End 904

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.01
 Depth to Water (ft bmp) 10.03
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.98
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.60
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 804 end 904
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.73
 SpC (mS/cm) 8.086
 CND (mS/cm) -
 Dissolved Oxygen (%) 0.9
 Dissolved Oxygen (mg/L) 0.16
 pH (s.u.) 7.26
 ORP (mV) -96.0
 Turbidity (NTU) 14.4
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-3/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-69

PROJ #: MI0013/3.0001.00002 (off)

DATE: 2-14-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
804	11.98	8.498	-	11.6	1.15	7.51	185.5	200	68.1	10.03
809	11.93	8.541	-	2.0	0.20	7.38	191.5	200	61.3	10.03
814	11.88	8.508	-	1.4	0.15	7.35	109.1	200	51.8	10.03
819	11.85	8.462	-	1.8	0.19	7.34	69.1	200	40.7	10.03
824	11.85	8.415	-	1.4	0.15	7.33	6.2	200	43.3	10.03
829	11.88	8.333	-	1.2	0.12	7.31	-61.1	200	31.5	10.03
834	11.93	8.262	-	1.3	0.13	7.29	-86.8	200	30.2	10.03
839	11.96	8.196	-	1.0	0.10	7.28	-93.1	200	25.3	10.03
844	11.38	8.130	-	2.7	0.28	7.27	-100.6	200	25.1	10.03
849	10.96	8.114	-	1.0	0.11	7.26	-106.4	200	25.0	10.03
854	10.70	8.102	-	1.8	0.19	7.25	-103.2	200	20.6	10.03
859	10.69	8.097	-	0.9	0.09	7.26	-98.4	200	19.8	10.03
904	10.73	8.086	-	0.9	0.10	7.26	-96.0	200	14.4	10.03
915 (KBS)										
Total Depth of Well:	20.01									
Depth To Water Before Purging:				10.63						
Depth To Water After Purging:				10.03						

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2-14-18
 Site/Well No. WW-31 Replicate No. — Code No. —
 Weather 23°F cloudy Sampling Time: Begin 925 End 950

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 21.48
 Depth to Water (ft bmp) 10.84
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.64
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.70
 Gallons Pumped/Bailed Prior to Sampling 1.29
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 925 end 950
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.51
 SpC (mS/cm) 24.46
 CND (mS/cm) —
 Dissolved Oxygen (%) 0.0
 Dissolved Oxygen (mg/L) 0.00
 pH (s.u.) 7.16
 ORP (mV) -89.2
 Turbidity (NTU) 6.41
 Color UGAR
 Odor None
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks —

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	10.84
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ARCADIS

Water Sampling Log

Project Ford LTP Project No. M1001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2-14-18
 Site/Well No. MW-35 Replicate No. — Code No. —
 Weather 25°F cloudy Sampling Time: Begin 1017 End 1117

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 24.50
 Depth to Water (ft bmp) 9.64
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 14.86
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.38
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1017 end 1117
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.65
 SpC (mS/cm) 3.981
 CND (mS/cm) —
 Dissolved Oxygen (%) -0.3
 Dissolved Oxygen (mg/L) -0.03
 pH (s.u.) 7.60
 ORP (mV) -149.4
 Turbidity (NTU) 58.8
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks —

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-35

PROJ #:

DATE : 2-14-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DWTW
1017	11.91	4.710	-	7.9	0.81	7.72	-34.6	200	36.7	9.64
1022	11.14	4.586	-	2.7	0.29	7.67	-62.4	200	76.7	9.64
1027	10.38	4.143	-	1.7	0.19	7.66	-94.0	200	95.9	9.64
1032	10.76	4.092	-	0.9	0.10	7.65	-112.3	200	81.8	9.64
1037	10.89	4.074	-	0.7	0.08	7.65	-116.9	200	95.4	9.64
1042	11.28	4.054	-	0.3	0.03	7.64	-130.1	200	95.4	9.64
1047	11.19	4.057	-	0.1	0.01	7.64	-134.5	200	84.1	9.64
1052	11.28	4.043	-	0.0	0.00	7.63	-139.2	200	76.4	9.64
1057	11.35	4.039	-	-0.1	-0.01	7.62	-141.6	200	78.3	9.64
1102	11.30	4.020	-	-0.2	-0.02	7.61	-143.9	200	75.9	9.64
1107	11.37	4.018	-	-0.2	-0.02	7.61	-145.3	200	63.7	9.64
1112	11.57	3.994	-	-0.3	-0.03	7.60	-147.7	200	53.3	9.64
1117	11.65	3.981	-	-0.3	-0.03	7.60	-149.4	200	58.8	9.64
Total Depth of Well:		24.50								
Depth To Water Before Purging:				9.64						
Depth To Water After Purging:				9.64						

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2-14-18
 Site/Well No. MW-18 Replicate No. — Code No. —
 Weather 28°F cloudy Sampling Time: Begin 1258 End 1358

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 17.85
 Depth to Water (ft bmp) 7.45
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.4
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.66
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1258 end 1358
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.22
 SpC (mS/cm) 5.166
 CND (mS/cm) —
 Dissolved Oxygen (%) 0.8
 Dissolved Oxygen (mg/L) 0.08
 pH (s.u.) 6.93
 ORP (mV) -71.0
 Turbidity (NTU) 67.5
 Color clear
 Odor none
 Appearance turbid
 Sampling Method Low Flow
 Remarks DUP-03-021418 TAKEN

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-18

PROJ #:

DATE: 2-14-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1258	10.74	5.814	-	29.5	2.96	7.09	-31.6	200	215	7.45
1303	10.76	5.792	-	2.2	0.23	6.99	-49.6	200	171	7.45
1308	9.14	5.697	-	1.3	0.15	6.96	-62.5	200	129	7.45
1313	9.08	5.680	-	1.2	0.13	6.96	-64.8	200	110	7.45
1318	8.84	5.605	-	0.9	0.10	6.94	-67.9	200	103	7.45
1323	8.51	5.556	-	0.8	0.09	6.94	-70.2	200	101	7.45
1328	9.07	5.436	-	0.8	0.09	6.92	-70.0	200	103	7.45
1333	9.77	5.433	-	0.8	0.08	6.92	-62.9	200	101	7.45
1338	10.36	5.366	-	1.1	0.12	6.94	-66.1	200	94.5	7.45
1343	10.29	5.296	-	1.4	0.15	6.93	-65.5	200	83.9	7.45
1348	10.48	5.224	-	0.5	0.06	6.92	-62.2	200	76.4	7.45
1353	10.39	5.205	-	0.4	0.05	6.92	-68.4	200	72.4	7.45
1358	10.22	5.166	-	0.8	0.08	6.93	-71.0	200	67.5	7.45
Total Depth of Well:	17.85									
Depth To Water Before Purging:				7.45						
Depth To Water After Purging:				7.45						

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-14-18
 Site/Well No. MW-S6 Replicate No. — Code No. —
 Weather 35°F cloudy Sampling Time: Begin 1441 End 1541

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 20.59
 Depth to Water (ft bmp) 8.50
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.09
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.93
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1441 end 1541
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.74
 SpC (mS/cm) 12.05
 CND (mS/cm) —
 Dissolved Oxygen (%) 0.0
 Dissolved Oxygen (mg/L) 0.00
 pH (s.u.) 7.39
 ORP (mV) -114.1
 Turbidity (NTU) 54.1
 Color CLEAR
 Odor None
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
_____	_____	_____	_____
_____	_____	_____	_____

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-¼" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-½" = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-56

PROJ #:

DATE: 2-14-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1441	12.64	11.43	-	14.4	1.38	7.57	36.1	200	47.7	8.48
1446	12.45	11.54	-	2.7	0.27	7.51	18.1	200	34.8	8.50
1451	12.35	11.64	-	0.8	0.08	7.45	-47.9	200	37.2	8.50
1456	12.35	11.67	-	0.4	0.04	7.44	-63.4	200	31.5	8.50
1501	12.33	11.75	-	-0.1	0.00	7.44	-82.5	200	32.2	8.50
1506	12.40	11.84	-	-0.1	-0.01	7.42	-97.9	200	36.7	8.50
1511	12.12	11.99	-	0.0	0.00	7.42	-106.0	200	40.0	8.50
1516	11.91	12.03	-	-0.1	-0.01	7.41	-110.2	200	41.0	8.50
1521	11.80	12.04	-	-0.2	-0.02	7.40	-112.3	200	43.0	8.50
1526	11.70	12.04	-	-0.1	-0.01	7.40	-112.5	200	47.1	8.50
1531	11.68	12.04	-	-0.1	-0.02	7.40	-112.9	200	50.2	8.50
1536	11.76	12.05	-	0.0	0.00	7.39	-113.9	200	52.2	8.50
1541	11.76	12.05	-	0.0	0.00	7.39	-114.1	200	54.1	8.50
Total Depth of Well:	20.59									
Depth To Water Before Purging:				8.48						
Depth To Water After Purging:				8.50						

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-14-18
 Site/Well No. HW-24 Replicate No. - Code No. -
 Weather 35°F cloudy Sampling Time: Begin 1611 End 1711

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 23.99
 Depth to Water (ft bmp) 10.54
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 13.43
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.15
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 1611 end 1711
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.42
 SpC (mS/cm) 3.936
 CND (mS/cm) -
 Dissolved Oxygen (%) 1.5
 Dissolved Oxygen (mg/L) 0.16
 pH (s.u.) 7.02
 ORP (mV) -67.9
 Turbidity (NTU) 20 (25) 41.6
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: Mw-24

PROJ #:

DATE : 2-14-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1611	11.59	4.034	-	24.1	2.50	7.01	43.2	200	163	10.56
1614	11.51	4.030	-	8.1	0.83	7.00	42.4	200	140	10.56
1621	16.84	3.952	-	2.3	0.25	7.02	8.9	200	118	10.56
1626	16.72	3.944	-	1.9	0.21	7.02	-21.9	200	115	10.56
1631	10.61	3.941	-	2.4	0.27	7.02	-32.6	200	109	10.56
1636	10.66	3.940	-	2.5	0.27	7.03	-36.5	200	104	10.56
1641	10.66	3.940	-	2.7	0.30	7.02	-37.7	200	97.5	10.56
1646	10.68	3.937	-	1.8	0.20	7.02	-46.0	200	94.2	10.56
1651	10.70	3.935	-	1.7	0.18	7.02	-53.6	200	89.9	10.56
1656	10.66	3.937	-	2.0	0.21	7.01	-58.0	200	81.6	10.56
1701	10.65	3.936	-	2.1	0.23	7.02	-60.4	200	72.3	10.56
1706	10.62	3.937	-	2.1	0.23	7.02	-65.2	200	64.1	10.56
1711	10.62	3.936	-	1.5	0.16	7.02	-67.9	200	61.6	10.56
Total Depth of Well:	23.99									
Depth To Water Before Purging:				10.56						
Depth To Water After Purging:				10.56						

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2-15-18
 Site/Well No. MW-36 Replicate No. - Code No. -
 Weather 34°F PARTLY CLOUDY Sampling Time: Begin 807 End 907

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 24.91
 Depth to Water (ft bmp) 10.69
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 14.22
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.28
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 807 end 907
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.73
 SpC (mS/cm) 9.437
 CND (mS/cm) -
 Dissolved Oxygen (%) 2.9
 Dissolved Oxygen (mg/L) 0.30
 pH (s.u.) 7.24
 ORP (mV) -74.4
 Turbidity (NTU) 21.0
 Color CLEAR
 Odor NING
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks DUP-04-021518 TAKEN

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-36

PROJ #: M1001373.0001.000002 (off)

DATE: 2-15-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
807	12.04	9.470	-	19.4	1.97	7.40	203.3	200	55.2	10.69
812	11.95	9.526	-	12.1	1.25	7.35	185.8	200	47.4	10.69
817	11.82	9.556	-	16.0	1.04	7.30	128.4	200	34.7	10.69
822	11.68	9.553	-	8.0	0.84	7.28	57.2	200	27.2	10.69
827	11.59	9.540	-	6.7	0.70	7.27	-38.5	200	27.2	10.69
832	11.59	9.525	-	6.0	0.63	7.26	-51.8	200	20.1	10.69
837	11.61	9.501	-	5.3	0.55	7.27	-64.7	200	24.4	10.69
842	11.63	9.486	-	4.0	0.43	7.26	-70.7	200	21.0	10.69
847	11.66	9.470	-	3.9	0.41	7.26	-72.5	200	19.0	10.69
852	11.67	9.461	-	3.7	0.38	7.25	-73.4	200	19.5	10.69
857	11.71	9.448	-	3.2	0.33	7.25	-73.2	200	18.9	10.69
902	11.72	9.441	-	2.7	0.28	7.25	-74.7	200	18.7	10.69
907	11.73	9.437	-	2.9	0.30	7.24	-74.4	200	21.0	10.69
Total Depth of Well:	24.91									
Depth To Water Before Purging:				10.69						
Depth To Water After Purging:				10.69						

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2-15-18
 Site/Well No. MW-38 Replicate No. — Code No. —
 Weather 36°F PARTLY CLOUDY Sampling Time: Begin 934 End 1034

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.65
 Depth to Water (ft bmp) 9.15
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.5
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.68
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 934 end 1034
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.20
 SpC (mS/cm) 2.654
 CND (mS/cm) —
 Dissolved Oxygen (%) 0.2
 Dissolved Oxygen (mg/L) 0.02
 pH (s.u.) 7.24
 ORP (mV) -80.8
 Turbidity (NTU) 71.2
 Color CLEAR
 Odor NONE
 Appearance TURBID
 Sampling Method Low Flow
 Remarks MS/MSD TAKEN

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-38

PROJ #:

DATE: 2-15-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
9:34	10.95	2.795	-	6.8	0.71	7.44	3.0	200	140	9.17
9:39	11.23	2.725	-	1.7	0.19	7.39	-3.7	200	155	9.15
9:44	11.26	2.707	-	0.8	0.09	7.34	-21.5	200	143	9.15
9:49	11.29	2.701	-	0.4	0.05	7.31	-34.9	200	127	9.15
9:54	11.18	2.699	-	0.3	0.03	7.29	-36.3	200	117	9.15
9:59	11.09	2.693	-	0.2	0.02	7.28	-48.3	200	113	9.15
10:04	11.05	2.689	-	0.4	0.05	7.28	-63.3	200	108	9.15
10:09	11.06	2.686	-	0.5	0.06	7.27	-64.3	200	104	9.15
10:14	11.09	2.682	-	0.1	0.01	7.26	-64.3	200	99.6	9.15
10:19	11.05	2.677	-	0.0	0.00	7.25	-66.2	200	95.0	9.15
10:24	11.07	2.670	-	0.4	0.05	7.26	-65.0	200	87.6	9.15
10:29	11.14	2.666	-	0.3	0.03	7.24	-75.0	200	79.4	9.15
10:34	11.20	2.659	-	0.2	0.02	7.24	-80.8	200	71.2	9.15
Total Depth of Well:	19.65			Q						
Depth To Water Before Purging:				9.15	9.17					
Depth To Water After Purging:					9.15					

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2-15-18
 Site/Well No. MU-39 Replicate No. - Code No. -
 Weather 38°F PARTLY CLOUDY Sampling Time: Begin 1108 End 1208

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 24.30
 Depth to Water (ft bmp) 11.64
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 12.64
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.03
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 1108 end 1208
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.73
 SpC (mS/cm) 4.748
 CND (mS/cm) -
 Dissolved Oxygen (%) 0.6
 Dissolved Oxygen (mg/L) 0.08
 pH (s.u.) 7.05
 ORP (mV) 2.1
 Turbidity (NTU) 15.2
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-¼" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-½" = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-39

PROJ #:

DATE: 2-15-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
11.08	11.51	4.305	-	48.8	5.13	7.34	32.0	200	47.8	11.64
1113	11.80	4.609	-	17.6	1.83	7.15	28.4	200	30.4	11.64
1118	11.68	4.703	-	4.2	0.44	7.10	19.1	200	16.9	11.64
1123	11.71	4.707	-	3.1	0.33	7.09	13.4	200	17.8	11.64
1128	11.67	4.717	-	2.8	0.29	7.08	10.4	200	17.5	11.64
1133	11.69	4.727	-	2.1	0.22	7.08	6.9	200	18.0	11.64
1138	11.79	4.734	-	1.7	0.18	7.07	4.8	200	20.3	11.64
1143	11.72	4.733	-	1.2	0.11	7.06	4.2	200	20.4	11.64
1148	11.75	4.733	-	1.1	0.11	7.06	3.0	200	21.0	11.64
1153	11.78	4.733	-	0.9	0.09	7.05	1.9	200	18.9	11.64
1158	11.76	4.737	-	0.8	0.09	7.06	1.2	200	16.0	11.64
1203	11.77	4.745	-	0.9	0.09	7.05	1.0	200	16.4	11.64
1208	11.73	4.748	-	0.6	0.08	7.05	2.1	200	15.2	11.64
Total Depth of Well:	24.30									
Depth To Water Before Purging:				11.64						
Depth To Water After Purging:				11.64						

APPENDIX B

Off-Site Groundwater Field Sampling Logs



ARCADIS

Water Sampling Log

MI0013730001.00002

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/8/18
 Site/Well No. MW-79S Replicate No. - Code No. -
 Weather CLOUD, OVERCAST, 18°F Sampling Time: Begin 1046 End 1050

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 9.78
 Depth to Water (ft bmp) 5.46
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 4.32
 Casing Diameter/Type 2" PVC
 Gallons in Well 0.6912
 Gallons Pumped/Bailed Prior to Sampling ~2.5
 Sample Pump Intake Setting (ft bmp) 7.78
 Purge Time begin 1010 end 1045
 Pumping Rate (ml/min) 250
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 6.76
 SpC (mS/cm) 2.249
 CND (mS/cm) 1.466
 Dissolved Oxygen (%) 4.4
 Dissolved Oxygen (mg/L) 0.53
 pH (s.u.) 7.53
 ORP (mV) -52.9
 Turbidity (NTU) 1.12
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel DKAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

PAGE 2 OF 2

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Total Depth of Well:	9.78	
Depth To Water Before Purging:	5.46	
Depth To Water After Purging:	5.46	

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/8/18
 Site/Well No. MW-79D Replicate No. - Code No. -
 Weather COLD, SUNNY, 18°F Sampling Time: Begin 1136 End 1143

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 14.69
 Depth to Water (ft bmp) 5.51
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 9.18
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.4688
 Gallons Pumped/Bailed Prior to Sampling ~2.5
 Sample Pump Intake Setting (ft bmp) 12.69
 Purge Time begin 1105 end 1135
 Pumping Rate (ml/min) 250
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.34
 SpC (mS/cm) 3.034
 CND (mS/cm) 2.068
 Dissolved Oxygen (%) 4.1
 Dissolved Oxygen (mg/L) 0.47
 pH (s.u.) 7.40
 ORP (mV) -51.8
 Turbidity (NTU) 5.60
 Color NONE
 Odor NONE

Appearance CLEAR BUT SOME SUSPENDED PARTICLES VISIBLE

Sampling Method Low Flow

Remarks

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel DCAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	5.51
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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001⁷³ 20000 Page 1 of 2
 Location Livonia, MI Date 2/8/18
 Site/Well No. MW-84 Replicate No. - Code No. -
 Weather SUNNY, 18°F Sampling Time: Begin 1255 End 1300

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 12.60
 Depth to Water (ft bmp) 4.60
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 1.28
 Casing Diameter/Type 2" PVC
 Gallons in Well _____
 Gallons Pumped/Bailed Prior to Sampling 2.5
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1200 end 1250
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 7.03
 SpC (mS/cm) 4.014
 CND (mS/cm) 2.636
 Dissolved Oxygen (%) 6.1
 Dissolved Oxygen (mg/L) 0.73
 pH (s.u.) 7.73
 ORP (mV) -47.3
 Turbidity (NTU) 7.96
 Color NONE
 Odor NONE
 Appearance CLEAR BUT SUSPENDED
 Sampling Method Low Flow

PARTICLES
 VISIBLE (PICTURE
 AVAILABLE)
 ↓
 Sent to
 Angela D

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel

DRAMATH

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

→ Dumped water out due to water being turbid (many susp. particles)

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 ¹³⁷³ ^{DK} Page 1 of 2
 Location Livonia, MI Date 2/8/18
 Site/Well No. MW-86 Replicate No. - Code No. -
 Weather OVERCAST, 18°F Sampling Time: Begin 1345 End 1350

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 16.72
 Depth to Water (ft bmp) 7.87
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 8.85
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.416
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 14.72
 Purge Time begin 1310 end 1340
 Pumping Rate (ml/min) 220
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.46
 SpC (mS/cm) 1.553
 CND (mS/cm) 1.062
 Dissolved Oxygen (%) 5.9
 Dissolved Oxygen (mg/L) 0.67
 pH (s.u.) 8.08
 ORP (mV) -56.5
 Turbidity (NTU) 0.34
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel DKAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Document #ENFM005, Revision 03

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.000100000 Page 1 of 2
 Location Livonia, MI Date 2/8/18
 Site/Well No. MW-87 Replicate No. - Code No. -
 Weather OVERCAST, 18°F Sampling Time: Begin 1505 End 1510

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 18.86
 Depth to Water (ft bmp) 11.06
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 7.80
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.248
 Gallons Pumped/Bailed Prior to Sampling ~2
 Sample Pump Intake Setting (ft bmp) 16.86
 Purge Time begin 1430 end 1505
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 7.24
 SpC (mS/cm) 0.350
 CND (mS/cm) 0.232
 Dissolved Oxygen (%) 7.8
 Dissolved Oxygen (mg/L) 0.95
 pH (s.u.) 10.28
 ORP (mV) -52.8
 Turbidity (NTU) 2.13
 Color NONE
 Odor NONE
 Appearance CLEAR
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel DKAMATH

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

Document #ENFM005, Revision 03

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Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/8/17
 Site/Well No. MW-85 Replicate No. _____ Code No. _____
 Weather Cloudy 18°F Sampling Time: Begin 1027 End 1032

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 12.76
 Depth to Water (ft bmp) 5.53 *Value from gauging event
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 7.23
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.15
 Gallons Pumped/Bailed Prior to Sampling ~1.5
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 0940 end 1032
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 6.00
 SpC (mS/cm) 4.432
 CND (mS/cm) 2.823
 Dissolved Oxygen (%) 5.8
 Dissolved Oxygen (mg/L) 0.71
 pH (s.u.) 7.30
 ORP (mV) -61.7
 Turbidity (NTU) 9.2
 Color Clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

- * NODTW gauged due to potential cross contamination

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date _____
 Site/Well No. MW-83 Replicate No. _____ Code No. _____
 Weather Cloudy Sampling Time: Begin 1222 End 1225

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 12.48
 Depth to Water (ft bmp) —
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) _____
 Casing Diameter/Type 2" PVC
 Gallons in Well _____
 Gallons Pumped/Bailed Prior to Sampling _____
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1130 end 1225
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.99
 SpC (mS/cm) 4.632
 CND (mS/cm) 3.216
 Dissolved Oxygen (%) 5.8
 Dissolved Oxygen (mg/L) 0.66
 pH (s.u.) 7.39
 ORP (mV) -41.9
 Turbidity (NTU) 1.56
 Color Clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>VOCs</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

ADTN NOT gauged

Sampling Personnel _____

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Sampled	@	1222
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* NO DTW grouped
due to potential
cross contamination

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date _____
 Site/Well No. MW-805 Replicate No. _____ Code No. _____
 Weather 24°F snow/cloudy Sampling Time: Begin 1347 End 1350

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) _____
 Depth to Water (ft bmp) _____
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) _____
 Casing Diameter/Type 2" PVC
 Gallons in Well _____
 Gallons Pumped/Bailed Prior to Sampling ~ 2.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1255 end 1350
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 6.66
 SpC (mS/cm) 3.955
 CND (mS/cm) 2.570
 Dissolved Oxygen (%) 4.4
 Dissolved Oxygen (mg/L) 0.93
 pH (s.u.) 7.27
 ORP (mV) -74.4
 Turbidity (NTU) 6.29
 Color clear
 Odor none
 Appearance _____
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

* DTW/DTB not gauged

Sampling Personnel A. Reibel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Sampled @ 1347

* DTW NOT GAUGED
DUE to possible

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date _____
 Site/Well No. MW-78 Replicate No. _____ Code No. _____
 Weather _____ Sampling Time: Begin 1527 End 1530

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) _____
 Depth to Water (ft bmp) _____
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) _____
 Casing Diameter/Type 2" PVC
 Gallons in Well _____
 Gallons Pumped/Bailed Prior to Sampling ~ 2.0
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1450 end 1530
 Pumping Rate (ml/min) 150
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 5.92
 SpC (mS/cm) 6.514
 CND (mS/cm) 4.146
 Dissolved Oxygen (%) 6.3
 Dissolved Oxygen (mg/L) 0.76
 pH (s.u.) 7.56
 ORP (mV) -99.7
 Turbidity (NTU) 2.89
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

DTW/DTB not gauged

Sampling Personnel A. Ribel

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

DTW NOT GAUGED
due to potential
cross contamination

ARCADIS

Water Sampling Log

Project Ford LTP Project No. M1001386.0001.20000 Page 1 of 2
 Location Livonia, MI Date 2/8/10
 Site/Well No. MW-77 Replicate No. _____ Code No. _____
 Weather p. cloudy 24°F Sampling Time: Begin 1417 End 1620

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) _____
 Depth to Water (ft bmp) _____
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) _____
 Casing Diameter/Type 2" PVC
 Gallons in Well _____
 Gallons Pumped/Bailed Prior to Sampling _____
 Sample Pump Intake Setting (ft bmp) _____
 Purge Time begin 1540 end 1620
 Pumping Rate (ml/min) _____
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.35
 SpC (mS/cm) 1.377
 CND (mS/cm) 0.940
 Dissolved Oxygen (%) 5.4
 Dissolved Oxygen (mg/L) 0.63
 pH (s.u.) 7.85
 ORP (mV) -85.4
 Turbidity (NTU) 1.47
 Color clear
 Odor none
 Appearance —
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
1,4-dioxane	40mL voa	3	HCL
VOCs	40mL voa	3	HCL

** DTW + DTB not gauged due to potential cross contamination*

Sampling Personnel A. Reibe

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-1/4" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-1/2" = 0.09	2-1/2" = 0.26	3-1/2" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

DTW NOT GAUGED
DUE TO POTENTIAL CROSS
CONTAMINATION

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-6-18
 Site/Well No. MW-73D Replicate No. — Code No. —
 Weather 10°F SUNNY / CLEAR Sampling Time: Begin 907 End 1007

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 17.52
 Depth to Water (ft bmp) 6.65
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.87
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.74
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 907 end 1007
 Pumping Rate (ml/min) 200 ml/min
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.66
 SpC (mS/cm) 3.894
 CND (mS/cm) —
 Dissolved Oxygen (%) 2.0
 Dissolved Oxygen (mg/L) 0.23
 pH (s.u.) —
 ORP (mV) 83.4
 Turbidity (NTU) 3.32
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks —

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel K. BRIGGS

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-¼" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-½" = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on)

PAGE 2 OF 2

WELL: MW-73D

PROJ #:

MI001373.0001.00002 (off)

DATE: 2-6-18

LOC:

Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
907	9.73	3.311	-	9.3	1.04	18.55	155.1	200	95.6	6.69
912	9.49	3.409	-	7.0	0.79	16.59	122.4		99.9	6.65
917	9.54	3.528	-	5.5	0.61	16.12	116.5		75.2	6.65
922	9.75	3.569	-	4.4	0.49	16.05	113.1		66.3	6.65
927	10.03	3.628	-	3.5	0.39	16.08	108.1		50.6	6.65
932	10.26	3.680	-	3.0	0.34	16.01	102.3		32.0	6.65
937	10.33	3.731	-	2.7	0.30	15.94	98.9		22.9	6.65
942	10.47	3.789	-	2.5	0.28	15.88	95.8		13.4	6.65
947	10.48	3.826	-	2.3	0.26	15.94	94.3		11.3	6.65
952	10.49	3.842	-	2.2	0.24	15.97	92.0		7.60	6.65
957	10.56	3.857	-	2.1	0.23	16.02	89.0		5.59	6.65
1002	10.55	3.881	-	2.0	0.22	16.05	86.6		4.05	6.65
1007	10.66	3.894	-	2.0	0.23	16.10	83.4		3.32	6.65
Total Depth of Well:	17.52									
Depth To Water Before Purging:				6.69						
Depth To Water After Purging:		6.65								

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-6-18
 Site/Well No. MW-74 Replicate No. — Code No. —
 Weather 21° F CLEAR Sampling Time: Begin 1059 End 1144

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 18.85
 Depth to Water (ft bmp) 7.52
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.33
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.81
 Gallons Pumped/Bailed Prior to Sampling 2.32
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1059 end 1144
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.34
 SpC (mS/cm) 5.027
 CND (mS/cm) —
 Dissolved Oxygen (%) 1.3
 Dissolved Oxygen (mg/L) 0.14
 pH (s.u.) —
 ORP (mV) 74.6
 Turbidity (NTU) 2.37
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks —

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel

KALAN BRIGGS

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-74

PROJ #:

DATE: 2-6-18

LOC: Ford LTP, Livonia, MI

[illegible]

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-6-17
 Site/Well No. MW-75D Replicate No. 1 Code No. 1
 Weather 26°F PARTLY CLOUDY Sampling Time: Begin 1217 End 1317

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 16.83
 Depth to Water (ft bmp) 6.70
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 10.13
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.62
 Gallons Pumped/Bailed Prior to Sampling 3.10
 Sample Pump Intake Setting (ft bmp) 1
 Purge Time begin 1217 end 1317
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.44
 SpC (mS/cm) 6.482
 CND (mS/cm) 1
 Dissolved Oxygen (%) 0.9
 Dissolved Oxygen (mg/L) 0.09
 pH (s.u.) 1
 ORP (mV) 53.0
 Turbidity (NTU) 14.1
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks _____

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-75D

PROJ #:

DATE: 2-6-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1217	10.82	6.232	-	8.9	0.96	-	114.8	200	272	6.72
1222	10.70	6.292	-	5.7	0.62	-	93.0	200	143	6.70
1227	10.49	6.334	-	3.2	0.35	-	85.9	200	107	6.70
1232	10.80	6.350	-	2.3	0.25	-	83.2	200	68.3	6.70
1237	10.57	6.389	-	1.8	0.19	-	79.5	200	45.0	6.70
1242	10.73	6.410	-	1.4	0.15	-	77.4	200	38.1	6.70
1247	10.86	6.416	-	1.1	0.12	-	72.5	200	29.1	6.70
1252	11.13	6.422	-	1.1	0.12	-	68.3	200	24.2	6.70
1257	11.23	6.445	-	0.9	0.10	-	64.9	200	16.9	6.70
1302	11.21	6.464	-	0.8	0.09	-	62.0	200	16.4	6.70
1307	11.28	6.464	-	0.8	0.08	-	57.5	200	13.1	6.70
1312	11.39	6.494	-	0.8	0.09	-	55.2	200	12.8	6.70
1317	11.44	6.482	-	0.9	0.09	-	53.0	200	14.1	6.70
Total Depth of Well:		16.83								
Depth To Water Before Purging:				6.72						
Depth To Water After Purging:		6.70								

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-6-18
 Site/Well No. MW-755 Replicate No. — Code No. —
 Weather 26°F PARTLY CLOUDY Sampling Time: Begin 1333 End 1413

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 9.82
 Depth to Water (ft bmp) 6.61
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 3.21
 Casing Diameter/Type 2" PVC
 Gallons in Well 0.51
 Gallons Pumped/Bailed Prior to Sampling 2.07
 Sample Pump Intake Setting (ft bmp) —
 Purge Time begin 1333 end 1413
 Pumping Rate (ml/min) 200
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 7.59
 SpC (mS/cm) 3.362
 CND (mS/cm) —
 Dissolved Oxygen (%) 0.8
 Dissolved Oxygen (mg/L) 0.09
 pH (s.u.) —
 ORP (mV) 35.9
 Turbidity (NTU) 0.55
 Color CLEAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks —

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes

Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	6.61
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ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-6-18
 Site/Well No. MW-81 Replicate No. - Code No. -
 Weather 28°F MOSTLY CLOUDY Sampling Time: Begin 1456 End 1541

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 12.71
 Depth to Water (ft bmp) 7.88
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 4.83
 Casing Diameter/Type 2" PVC
 Gallons in Well 0.77
 Gallons Pumped/Bailed Prior to Sampling 2.32
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 1456 end 1541
 Pumping Rate (ml/min) 260
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.19
 SpC (mS/cm) 1.950
 CND (mS/cm) -
 Dissolved Oxygen (%) 1.6
 Dissolved Oxygen (mg/L) 0.19
 pH (s.u.) -
 ORP (mV) 30.4
 Turbidity (NTU) 3.65
 Color CLAR
 Odor NONE
 Appearance NORMAL
 Sampling Method Low Flow
 Remarks DUP-01-020618 TAKEN

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel KALAN BRIGGS

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-6-13
 Site/Well No. MW-735 Replicate No. -- Code No. --
 Weather Sunny 10°F Sampling Time: Begin 945 End --

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 11.62
 Depth to Water (ft bmp) 6.30
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 5.32
 Casing Diameter/Type 2" PVC
 Gallons in Well 0.85
 Gallons Pumped/Bailed Prior to Sampling 3.37
 Sample Pump Intake Setting (ft bmp) --
 Purge Time begin 855 end 945
 Pumping Rate (ml/min) ~300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.80
 SpC (mS/cm) 3263
 CND (mS/cm) --
 Dissolved Oxygen (%) --
 Dissolved Oxygen (mg/L) 0.21
 pH (s.u.) 6.24
 ORP (mV) 344.1
 Turbidity (NTU) 11.6
 Color clear
 Odor none
 Appearance normal
 Sampling Method Low Flow
 Remarks --

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel S. Presswood

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

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YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on)

PAGE 2 OF 2

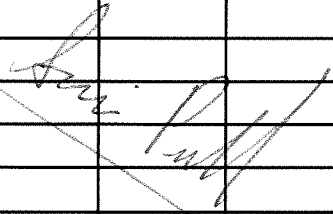
MI001373.0001.00002 (off)

WELL: MW-735

PROJ #:

DATE: 2-6-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
900	9.10	3.620	-	-	1.94	6.57	343.0	~300	22.0	6.30
905	9.05	3.483	-	-	0.81	6.38	344.3	~300	20.7	6.32
910	8.89	3.392	-	-	0.60	6.31	344.5	~300	19.4	6.32
915	8.97	3.352	-	-	0.41	6.26	345.0	~300	20.4	6.32
920	8.83	3.299	-	-	0.37	6.25	347.7	~300	18.6	6.32
925	8.81	3.289	-	-	0.34	6.24	344.3	~300	17.0	6.32
930	8.82	3.269	-	-	0.29	6.23	344.0	~300	16.8	6.32
935	8.91	3.270	-	-	0.23	6.24	344.1	~300	12.0	6.32
940	8.79	3.261	-	-	0.21	6.24	344.2	~300	11.8	6.32
945	8.80	3.263	-	-	0.21	6.24	344.1	~300	11.6	6.32
										
Total Depth of Well: 11.62										
Depth To Water Before Purging: 6.30										
Depth To Water After Purging: 6.32										

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Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 2-6-18
 Site/Well No. MW-72 Replicate No. - Code No. -
 Weather Sunny 10°F Sampling Time: Begin 1145 End -

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.86
 Depth to Water (ft bmp) 8.58
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 11.28
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.80
 Gallons Pumped/Bailed Prior to Sampling 4.26
 Sample Pump Intake Setting (ft bmp) ^{SMP 2-6-18}
~300 NA
 Purge Time begin 1050 end 1145
 Pumping Rate (ml/min) ~300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 11.07
 SpC (mS/cm) 3.712
 CND (mS/cm) -
 Dissolved Oxygen (%) -
 Dissolved Oxygen (mg/L) 0.20
 pH (s.u.) 7.26
 ORP (mV) 334.4
 Turbidity (NTU) 9.9
 Color clear
 Odor none
 Appearance normal
 Sampling Method Low Flow
 Remarks -

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel S. Presswood

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-1/4" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-1/2" = 0.09 2-1/2" = 0.26 3-1/2" = 0.50 6" = 1.47

bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on) PAGE 2 OF 2
MI001373.0001.00002 (off)

WELL: MW-72

PROJ #:

DATE: 02-06-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1055	12.76	3.931	-	-	3.93	7.39	309.8	~300	24.9	8.58
1100	12.13	3.900	-	-	0.78	7.41	323.3	~300	22.2	8.62
1105	11.55	3.820	-	-	2.78	7.38	372.7	~300	19.1	8.62
1110	11.37	3.817	-	-	0.52	7.31	347.3	~300	16.7	8.62
1115	11.29	3.814	-	-	0.41	7.27	339.4	~300	15.9	8.62
1120	11.33	3.812	-	-	0.35	7.27	337.3	~300	15.2	8.62
1125	11.40	3.810	-	-	0.30	7.26	335.2	~300	14.1	8.62
1130	11.22	3.717	-	-	0.28	7.26	334.9	~300	13.0	8.62
1135	10.99	3.732	-	-	0.21	7.26	334.6	~300	12.1	8.62
1140	11.04	3.717	-	-	0.20	7.26	334.4	~300	10.2	8.62
1145	11.07	3.712	-	-	0.20	7.26	334.4	~300	9.9	8.62
Puri Pull										
Total Depth of Well: 19.86										
Depth To Water Before Purging: 8.58										
Depth To Water After Purging: 8.62										

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Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 02-06-18
 Site/Well No. MW-76 Replicate No. - Code No. -
 Weather Sunny 10°F Sampling Time: Begin 1330 End -

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 19.71
 Depth to Water (ft bmp) 10.87
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 8.84
 Casing Diameter/Type 2" PVC
 Gallons in Well 1.41
 Gallons Pumped/Bailed Prior to Sampling 5.03
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 1225 end 1330
 Pumping Rate (ml/min) ~300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 10.77
 SpC (mS/cm) 5.532
 CND (mS/cm) -
 Dissolved Oxygen (%) -
 Dissolved Oxygen (mg/L) 0.18
 pH (s.u.) 6.91
 ORP (mV) 331.5
 Turbidity (NTU) 1.22
 Color clear
 Odor none
 Appearance normal
 Sampling Method Low Flow
 Remarks -

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel S. Presswood

Well Casing Volumes

Gal./Ft. 0.5" = 0.01 1-¼" = 0.06 2" = 0.16 3" = 0.37 4" = 0.65
 1" = 0.04 1-½" = 0.09 2-½" = 0.26 3-½" = 0.50 6" = 1.47

bmp Below measuring point mL Milliliter NTU Nephelometric turbidity units
 °C Degrees Celsius mS/cm Millisiemens per centimeter PVC Polyvinyl chloride
 ft Feet msl Mean sea level s.u. Standard units
 gpm Gallons per minute N/A Not applicable umhos/cm Micromhos per centimeter
 mg/L Milligrams per liter NR Not recorded VOC Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

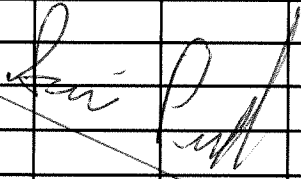
MI001386.0001.20000 (on) PAGE 2 OF 2
MI001373.0001.00002 (off)

WELL : MW-76

PROJ #:

DATE : 02-06-18

LOC: Ford LTP, Livonia, MI

Time	Temp Degree C	SpC mS/cm	CND mS/cm	DO%	DO mg/L	pH	ORP mV	Flow Rate mL/min	Turbidity NTU	DTW
1230	10.68	3.379	-	-	3.48	7.55	331.6	~300	7.16	10.87
1235	10.37	3.401	-	-	0.99	7.47	331.6	~300	5.22	10.91
1240	10.25	3.429	-	-	0.91	7.31	331.6	~300	3.81	10.91
1245	10.42	4.177	-	-	0.68	7.12	331.8	~300	2.98	10.91
1250	10.92	5.058	-	-	0.41	6.93	332.0	~300	1.34	10.91
1255	10.78	5.111	-	-	0.38	6.95	332.1	~300	1.31	10.91
1300	10.69	5.210	-	-	0.25	7.00	331.8	~300	1.30	10.91
1305	10.73	5.287	-	-	0.23	6.99	331.6	~300	1.28	10.91
1310	10.85	5.384	-	-	0.22	6.98	331.5	~300	1.25	10.91
1315	10.79	5.401	-	-	0.21	6.97	331.3	~300	1.24	10.91
1320	10.78	5.418	-	-	0.20	6.92	330.9	~300	1.24	10.91
1325	10.77	5.513	-	-	0.19	6.92	331.2	~300	1.23	10.91
1330	10.77	5.532	-	-	0.18	6.91	331.5	~300	1.22	10.91
										
Total Depth of Well:		18.71								
Depth To Water Before Purging:		10.37								
Depth To Water After Purging:		10.91								

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Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 02-06-18
 Site/Well No. MW-825 Replicate No. - Code No. -
 Weather Sunny 20°F Sampling Time: Begin 1455 End -

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 13.44
 Depth to Water (ft bmp) 13.44 8.32
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 5.12
 Casing Diameter/Type 2" PVC
 Gallons in Well 0.82
 Gallons Pumped/Bailed Prior to Sampling 4.26
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 1400 end 1455
 Pumping Rate (ml/min) ~300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 8.87
 SpC (mS/cm) 0.839
 CND (mS/cm) -
 Dissolved Oxygen (%) -
 Dissolved Oxygen (mg/L) 0.43
 pH (s.u.) 6.69
 ORP (mV) 325.1
 Turbidity (NTU) 2.98
 Color clear
 Odor none
 Appearance normal
 Sampling Method Low Flow
 Remarks -

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel S. Presswood

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

ARCADIS

YSI/LOW FLOW SAMPLING LOG

MI001386.0001.20000 (on)

PAGE 2 OF 2

MI001373.0001.00002 (off)

WELL: MW-82S

PROJ #:

DATE: 02-06-18

LOC: Ford LTP, Livonia, MI

[illegible]

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Water Sampling Log

Project Ford LTP Project No. MI001373.0001.00002 Page 1 of 2
 Location Livonia, MI Date 02-06-18
 Site/Well No. MW-820 Replicate No. - Code No. -
 Weather Sunny 12°F Sampling Time: Begin 1555 End -

Evacuation Data

Measuring Point TOC
 MP Elevation (ft) NA
 Land Surface Elevation (ft) NA
 Sounded Well Depth (ft bmp) 22.81
 Depth to Water (ft bmp) 8.65
 Water-Level Elevation (ft) NA
 Water Column in Well (ft) 14.16
 Casing Diameter/Type 2" PVC
 Gallons in Well 2.27
 Gallons Pumped/Bailed Prior to Sampling 3.87
 Sample Pump Intake Setting (ft bmp) -
 Purge Time begin 1505 end 1555
 Pumping Rate (ml/min) ~300
 Evacuation Method Peristaltic Pump

Field Parameters

Temperature (°C) 9.85
 SpC (mS/cm) 1.13
 CND (mS/cm) -
 Dissolved Oxygen (%) -
 Dissolved Oxygen (mg/L) 0.13
 pH (s.u.) 6.92
 ORP (mV) 327.9
 Turbidity (NTU) 4.89
 Color clear
 Odor none
 Appearance normal
 Sampling Method Low Flow
 Remarks -

Constituents Sampled	Container Description	Number	Preservative
<u>1,4-dioxane</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>
<u>1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC</u>	<u>40mL voa</u>	<u>3</u>	<u>HCL</u>

Sampling Personnel S. Presswood

Well Casing Volumes					
Gal./Ft.	0.5" = 0.01	1-¼" = 0.06	2" = 0.16	3" = 0.37	4" = 0.65
	1" = 0.04	1-½" = 0.09	2-½" = 0.26	3-½" = 0.50	6" = 1.47
bmp	Below measuring point	mL	Milliliter	NTU	Nephelometric turbidity units
°C	Degrees Celsius	mS/cm	Millisiemens per centimeter	PVC	Polyvinyl chloride
ft	Feet	msl	Mean sea level	s.u.	Standard units
gpm	Gallons per minute	N/A	Not applicable	umhos/cm	Micromhos per centimeter
mg/L	Milligrams per liter	NR	Not recorded	VOC	Volatile organic compounds

YSI/LOW FLOW SAMPLING LOG

MI001373.0001.00002 (off)

PROJ #:

LOC: Ford LTP, Livonia, MI

Depth To Water After Purging:	8.68
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APPENDIX C

Off-Site Soil Gas Field Sampling Logs





Soil Vapor Collection Log Sheet

Office Name & Address (Reporting Information): ARCADIS of Michigan, LLC, 28550 Cabot Drive, Suite 500, Novi, MI 48377			Project Name: Ford LTP - Residential VI Sampling		
Project Manager: Kris Hinskey			Project Number: MI001386.0001.20000		
Task Manager: Angela DeGrandis			Site Address		
Phone: 248-994-2240 Fax: 248-994-2241			36200 Plymouth Road		
Email Address for Result Reporting: Kristoffer.Hinskey@arcadis.com			Livonia, MI		
Helium Detector Used			Sampler Name, Phone Number: Ashley Reibel - (m: 586-792-9639); Kalan Briggs - (m: 248-635-4576).		
Helium Leak Test Method: Bucket shroud			Summa Canister Size (1L, 2.7 L, 6L)		
			1 L with a 20-minute flow controller		
			Lab: Eurofins		

SVMP-01S
3.5 (02...
SVMP-01D -
1.0

Sample ID	Sample Location Description	Date	Leak/Tracer Test (completed prior to sample collection)							Canister No.	Time Collected Start	Initial Canister Pressure (in Hg)	Time Collected End	Final Canister Pressure (in Hg)	Flow Controller No.	Notes
			Shut In Test Pass/Fail?	Initial Purge Reading (ppm)	Shroud Helium Concentration (%)	End Purge Reading (ppm)	Helium Test Pass/Fail?	Purge Volume (mL)	Purge Rate (mL/min)							
SVMP-22-3(091817)	1234 Plymouth Road	12/1/17	Pass	0	30	5	Pass	120	120	2595	0835	-30	0841	-5	10002434	Debris noted under steel cap and in annular space around vapor pin. Cleaned out prior to sampling.
SVMP-01S(2/19/18)	34965 Standish	02/19/18	Pass	0	32.0%	0	Pass	200	50	1L1849	0940	-29	1005	-5	23346	
SVMP-01D(02/19/18)	34965 Standish	2/19/18	Pass	0	31.8%	0	Pass	200	50	1L2956	1032	-27	1055	-5	23496	
SVMP-07-3.5(02/19/18)	34965 Wadsworth	2/19/18	Pass	0	30.8%	0	Pass	200	50	1L2721	1225	-27	1250	-5	23120	
SVMP-19-3(022018)	34401 Capitol	2/20/18	Pass	0	31.2%	0	Pass	200	50	1L3086	0916	-30	0955	-7	23820	water in vault
SVMP-18-3(022018)	34367 Capitol	2/20/18	Pass	0	30.0%	0	Pass	200	50	1L3020	1052	-26	1125	-5	23146	
SVMP-23-3(022018)	Rosati	2/20/18	Pass	0	30.0%	0	Pass	200	50	1L1938	1426	-30	1503	-5	23261	

Meteorological Data					General Notes or Observations	
Date	Time	Temp. (°F)		% Humidity	Barometric Pressure (in.)	
		Indoor	Outdoor			
Example - 12/1/2017	0800	73	22	38	30.10	
2/19/18	0929	-	34	86%		Rain expected @ 1300 Rain began @ 1200 2/19/18 *1 During 2nd helium tracer test water filled sample train.
2/20/18	1430	-	59	93%		

Air Parameters (completed after sample collection)		
Location ID	CO2 %	O2 %
SVMP-22-3(091817)	0.3	15.6
SVMP-01S	1.8	18.5
SVMP-01D	1.9	18.9
SVMP-07	1.0	20.4
SVMP-19	-	-
SVMP-18	2.7	16.6
SVMP-23		

*1
Total of 1.07"
rain 2/20 @ 1430

[illegible]

Meteorological Data					General Notes or Observations
Date	Time	Temp. (°F)		% Humidity	Barometric Pressure mb
		Indoor	Outdoor		
Example - 12/1/2017	0800	73	22	38	30.10
2/21/18	855	-	36	98	1025.7
2/21/18	1213	-	36	96	1304.5

Raining during sample collection SVMP-24
 Rain stopped @ 1030
 Total Rain accumulation 0.50" 2/21/18

[illegible]

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