

MEMO

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From:
Kris Hinskey

Date:
December 11, 2019

Arcadis Project No.:
30016352 (MI001454.0007)

Subject:
Livonia Transmission Plant
36200 Plymouth Road, Livonia, Wayne County, Michigan
EGLE Site ID No. 82002970
Residential Locations Without Access

On behalf of Ford Motor Company (Ford), Arcadis of Michigan, LLC (Arcadis) has prepared this memo in support of its request that EGLE reconsider its position directing that Ford complete a vapor intrusion assessment at the following locations 34800 Standish and 11665 Boston Post. The property owners at these addresses have refused to sign access agreements to allow a vapor assessment to occur on their property. Since the off-site vapor intrusion assessment was initiated pursuant to the Consent Decree (July 27, 2017), ongoing sampling efforts surrounding these subject properties have provided multiple lines of evidence that the potential for vapor intrusion at each is unlikely. Based on these multiple lines of evidence, Ford requests that EGLE consider removing these residential locations from the vapor intrusion program.

34800 Standish Street and 11665 Boston Post

Arcadis has evaluated the available information that has been collected around or near the properties located at 34800 Standish and 11665 Boston Post. Multiple lines of evidence have been used including groundwater results, soil gas collected from soil vapor monitoring points, indoor air and soil gas collected from homes that surround the residential locations that have agreed to access agreements

Groundwater

Both properties are located in the southern area of the Alden Village Subdivision where groundwater impacts of vinyl chloride (VC) were identified relatively deeper during the initial investigation that was conducted in 2016. The initial vertical aquifer profile (VAP) samples (HPT-76, HPT-90, HPT-91, HPT-92, HPT-93, HPT-94, HPT-96, HPT-97, HPT-98, HPT-99, HPT-111, HPT-112, HPT-113, HPT-114, HPT-139, HPT-140, HPT-141, and HPT-142) collected identified low levels of VC offsite in the southern half of the Alden Village Subdivision. The concentrations varied from 4.0 ug/L to .40J ug/L, refer to **Appendix A** that provides the table, figure, and cross sections presented in the initial conceptual site model (CSM).

Based on the initial VAP borings, six (6) monitoring wells (MW-75S, MW-75D, MW-76, MW-77, MW-86, MW-87) were installed offsite in the southern area of Alden Village. The monitoring wells were installed based on where impacts were identified in the initial VAP borings or where the highest max flux was observed. Nine to ten rounds of groundwater samples have been collected from the six (6) monitoring wells and the only monitoring well that exceeds the criteria (1 ug/L) is monitoring well MW-75D, which is screened in the deeper part of the aquifer from 12 to 17 feet below ground surface (ft bgs). The concentrations in monitoring well MW-75D have fluctuated from 6.4 ug/L to 1.4 ug/L.

In December 2018 and February 2019, at the request of the EGLE, shallow groundwater monitoring well screens were installed in an effort to split the water table and determine if the water table was impacted and could cause a potential vapor intrusion pathway. Thirty (30) shallow monitoring wells total were installed both in the City of Livonia right of way and on residential properties within the southern portion of the Alden Village Subdivision. Three rounds of groundwater samples have been collected from the 30 shallow groundwater monitoring wells and there have been no exceedances of the criteria of 1 ug/L. Groundwater samples continue to be collected on a quarterly basis, all three rounds of sample results have been included in **Appendix B**, which is provided in the quarterly progress reports. In addition, the closest VC exceedance is located at MW-76D on Belden Court, which is approximately 950 feet away from 34800 Standish and 1,550 feet away from 11665 Boston Post.

Vapor Intrusion Assessment

Based on the data collected in the southern area of Alden Village the groundwater elevation varies in depth from 5.7 to 8.7 ft bgs. Due to the presence of at least 5 feet of vadose zone in this area, nested soil vapor monitoring points (SVMPs) were installed to evaluate the potential for vapor intrusion. In 2017, sixteen (16) SVMPs averaging in depth between 3 and 8.5 ft bgs. Two to nine rounds of soil gas samples have been collected to date and VC has never exceeded the EGLE criteria of 54 ug/m³ and no detections of VC have been observed. Analytical results and SVMP locations are provided in **Appendix C**.

Vapor intrusion assessment has been conducted at eighteen (18) residential locations located on Wadsworth, Standish, and Boston Post Streets. The Vapor intrusion assessment has included three (3) rounds of indoor air and sub-slab monitoring points (SSMPs) samples. The data collected to date shows no VC present both in indoor air or in soil gas collected in SSMPs primarily collected within attached garages. Analytical results from the surrounding residential locations is provided in **Appendix C**. An additional round of vapor intrusion sampling is currently ongoing and evaluated.

Based on the data that has been collected it is unlikely that a vapor intrusion issue is present in the southern area of the Alden Village Subdivision. VC has been detected in VAP borings only and has not been detected in either shallow groundwater wells or in soil gas or indoor air. Additional data collected from 34800 Standish and 11665 Boston Post seems unnecessary due to the robust data set that has been accumulated to date and the absence of VC both in groundwater and soil gas.

Both residential locations have crawl spaces and no basements are present.

In short, since the off-site vapor intrusion assessment was initiated pursuant to the Consent Decree (July 27, 2017), ongoing sampling efforts surrounding these subject properties have provided multiple lines of evidence that the potential for vapor intrusion at each is unlikely.

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Appendix A – Initial Offsite Investigation Data

Appendix B – Quarterly Groundwater Analytical Results

Appendix C – Vapor Intrusion Analytical Results

APPENDIX A

Initial Offsite Investigation Data



Table 8.
Off-Site HPT Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Sample Location: Date Collected: Sample Interval:	Residential Drinking Water Criteria	Groundwater- Surface Water Interface Criteria	HPT-28 11/15/2015 9-12	HPT-28 11/15/2015 14-17	HPT-28 11/15/2015 17-20	HPT-29 11/13/2015 8-11	HPT-29 11/13/2015 13-16	HPT-29 11/13/2015 17-20	HPT-29 11/13/2015 21-24	HPT-30 11/14/2015 7-10	HPT-30 11/14/2015 10-13	HPT-30 11/14/2015 14-17	HPT-30 11/14/2015 23-26	HPT-56 11/14/2015 8-11	HPT-56 11/14/2015 12-15	HPT-56 11/14/2015 15-18	HPT-57 11/14/2015 8-11	HPT-57 11/14/2015 12-15	HPT-57 11/14/2015 15-18	HPT-58 11/14/2015 8-11
VOCs SIM																				
1,4-Dioxane	85	2,800	< 2.0	< 2.0	2	< 2.0	1.1 J	5.7	0.83 J	< 2.0	3.2	4.5	< 2.0	< 2.0	< 2.0	2.3	< 2.0	< 2.0	2	< 2.0
VOCs																				
1,1,1-Trichloroethane	200 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	8.5	78 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	170,000 (S)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	5.0 (A)	330 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	880	740	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	< 1.0	< 1.0	< 1.0	0.43 J	0.35 J	< 1.0	0.36 J	0.42 J	< 1.0	0.38 J
1,1-Dichloroethene	7.0 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	70 (A)	99 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	63 (E)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	5.0 (A)	360 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	5.0 (A)	230 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	72 (E)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	6.6	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	75 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	85	2800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	13,000	2,200	< 10	< 10	0.55 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	0.54 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	1,000	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone	1,800	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	730	1,700	< 10	< 10	4.1 J	< 10	< 10	< 10	1.7 J	< 10	< 10	< 10	1.9 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Benzene	5.0 (A)	200 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	80 (A,W)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	80 (A,W)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	10	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	800	ID	< 5.0	< 5.0	< 5.0	0.76 J	0.77 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.45 J	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	5.0 (A)	45 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	2,600	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	1,700	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	430	1,100 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	80 (A,W)	350	< 1.0	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	260	ID	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.72 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	70 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.6	1.8	< 1.0	< 1.0	< 1.0	< 1.0	0.36 J	< 1.0	0.93 J	0.80 J	< 1.0	3.2
cis-1,3-Dichloropropene	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	80 (A,W)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	1,700	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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	10 (E)	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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	74 (E)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	800	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	40 (E)	7,100 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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)	100 (A)	80 (X)	< 1.0	< 1.0	< 1.0	< 1.0														

Table 8.
Off-Site HPT Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Sample Location: Date Collected: Sample Interval:	Residential Drinking Water Criteria	Groundwater- Surface Water Interface Criteria	HPT-58 11/14/2015 14-17	HPT-58 11/14/2015 17-20	HPT-59 11/13/2015 9-12	HPT-59 11/13/2015 12-15	HPT-59 11/13/2015 16-19	HPT-59 11/13/2015 20-23	HPT-60 11/15/2015 9-12	HPT-60 11/15/2015 16-19	HPT-60 11/15/2015 20-23	HPT-61 11/15/2015 8-11	HPT-61 11/15/2015 12-14	HPT-61 11/15/2015 15-18	HPT-62 11/14/2015 7-10	HPT-62 11/14/2015 12-15	HPT-62 11/14/2015 15-18	HPT-63 11/15/2015 7-10	HPT-63 11/15/2015 12-15	HPT-63 11/15/2015 16-19
VOCs SIM																				
1,4-Dioxane	85	2,800	3.2	3.8	< 2.0	0.44 J	1.0 J	5.8	< 2.0	< 2.0	< 2.0	< 2.0	1.1 J	3.4	1.1 J	2.6	4.2	0.65 J	1.6 J	< 2.0
VOCs																				
1,1,1-Trichloroethane	200 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	8.5	78 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	170,000 (S)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	5.0 (A)	330 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	880	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7.0 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trimethylbenzene	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	70 (A)	99 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	63 (E)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	5.0 (A)	360 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	5.0 (A)	230 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	72 (E)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	6.6	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	75 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dioxane	85	2800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (MEK)	13,000	2,200	< 10	< 10	< 10	< 10	< 10	< 10	0.53 J	< 10	4.9 J	0.56 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	1,000	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-Pentanone	1,800	ID	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	730	1,700	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	21	3.3 J	< 10	< 10	2.3 J	1.2 J	1.9 J	< 10	< 10	< 10
Benzene	5.0 (A)	200 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	80 (A,W)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform	80 (A,W)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	10	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon Disulfide	800	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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon Tetrachloride	5.0 (A)	45 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	2,600	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane	1,700	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	430	1,100 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	80 (A,W)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroform	260	ID	< 1.0	0.66 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane	70 (A)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	0.33 J	2.6	< 1.0	< 1.0	< 1.0	< 1.0	0.48 J	0.69 J	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane	80 (A,W)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloromethane	1,700	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	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Diethyl ether	10 (E)	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	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Ethylbenzene	74 (E)	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	800	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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl Acetate	NS	NS	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	40 (E)	7,100 (X)	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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)	100 (A)	80 (X)	< 1.0	< 1.0	< 1.0	<														

Table 8.
Off-Site HPT Groundwater Analytical Results
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

Notes:

All results are in units of micrograms per liter ($\mu\text{g/L}$) or parts per billion (ppb)

- (A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- (E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).
- (I) Hazardous substance may exhibit the characteristics of ignitability as defined in 40 C.F.R. 261.21 (revised as of July 1, 2001).
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 $\mu\text{g/L}$.
- (X) The Groundwater/Surface Water Interface (GSI) criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

< - Not detected above reporting detection limit

HPT - Hydraulic profiling tool

ID - Insufficient data to develop criterion.

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

NA - Not analyzed

NS - No standard

SIM - Selective ion monitoring

VOC - Volatile organic compound

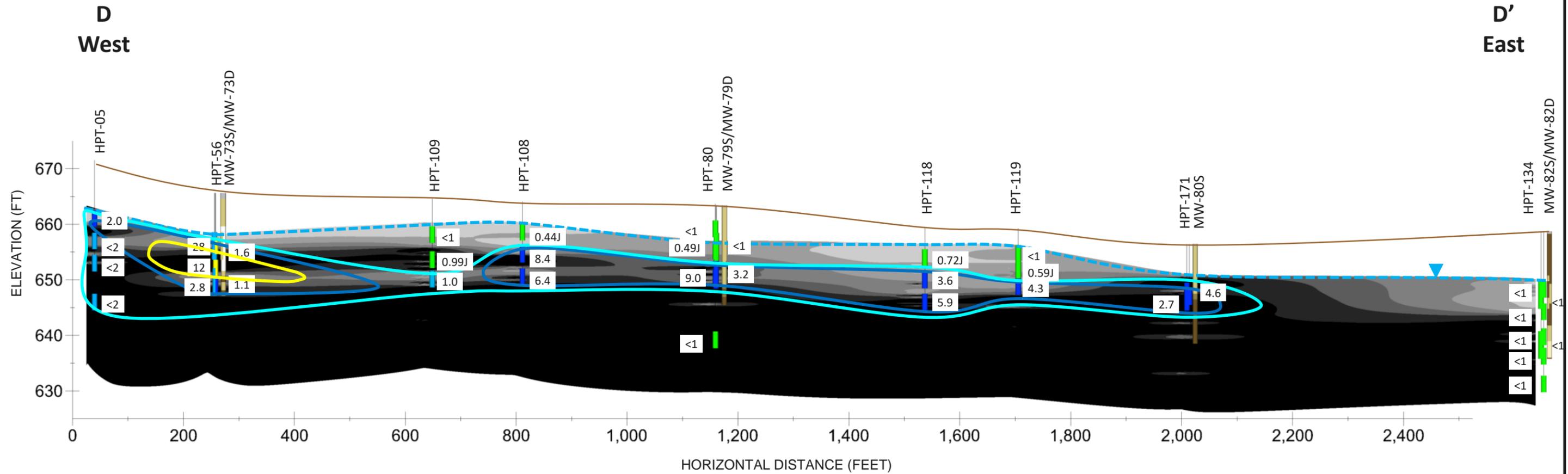
Results are compared to the Michigan Department of Environmental Quality P201 Generic Cleanup Criteria, December 31, 2013.

Bold - Result exceeds Residential Drinking Water Criteria

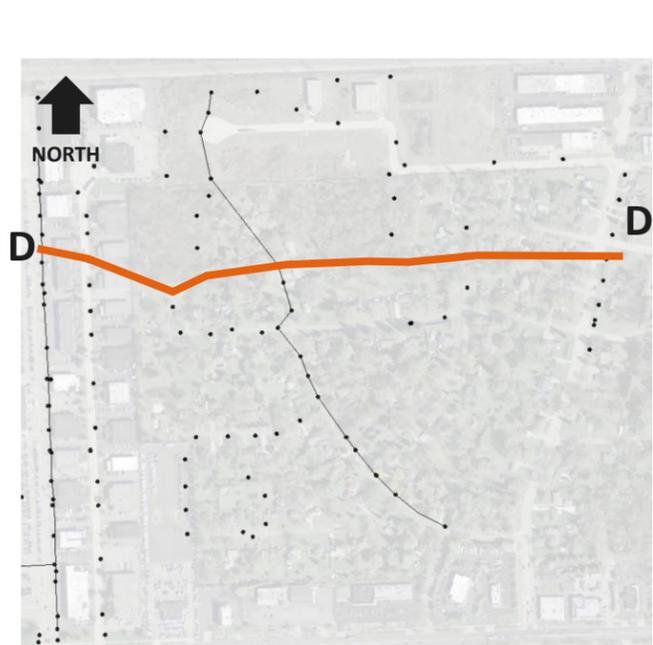
Shaded - Result exceeds Groundwater Surface Water Interface Criteria

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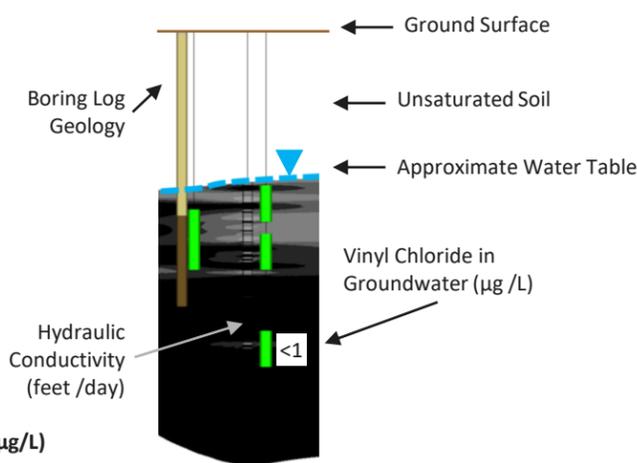
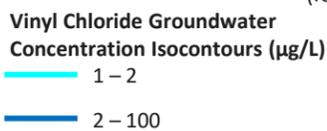
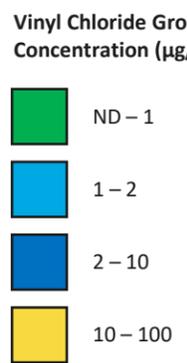
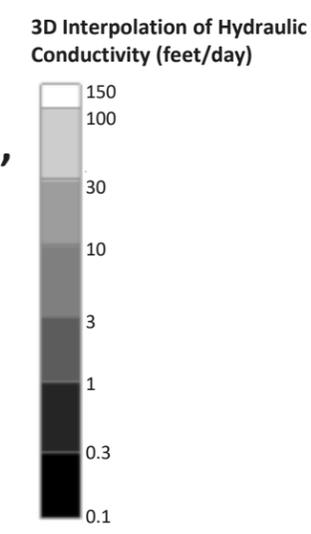
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CITY: Novi DIV:ENVY DB:MG PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl G:\COMMON\Ford\Livonia\04 Draft Reports\17-08-21 CSM\Figures\Figure 26 - Cross Section D.pdf PLOTTED: 8/23/2017 BY:ayamites 8/23/2017 4:26:03 PM



LEGEND



- Notes:
1. µg/L = Micrograms per Liter
 2. Vertical Exaggeration = 10X
 3. The Michigan Department of Environmental Quality Nonresidential Drinking Water criteria for Vinyl Chloride is 2.0 µg/L

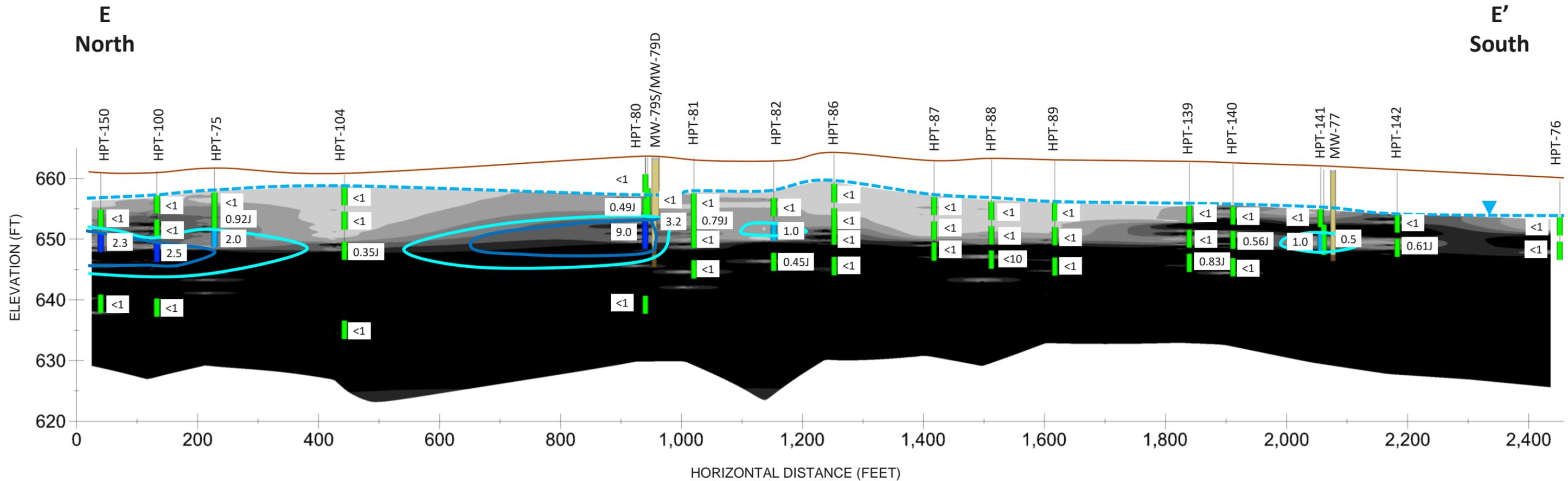
FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

CROSS SECTION D-D' - VINYL CHLORIDE AND HYDRAULIC CONDUCTIVITY

ARCADIS Design & Consultancy for natural and built assets

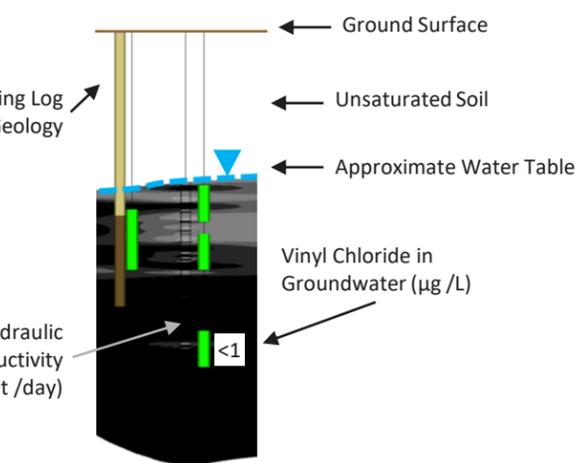
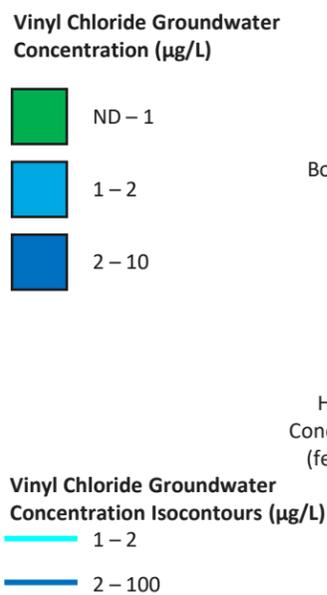
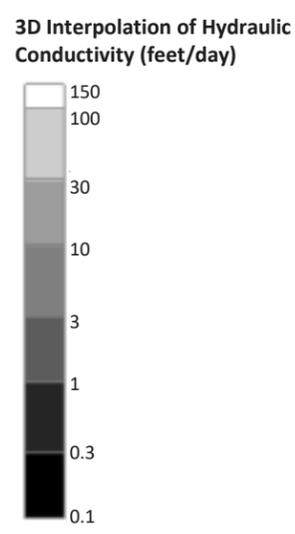
FIGURE 26

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CITY: Novi DIV:ENVY DB:MG PROJECT NUMBER: M001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl G:\COMMON\Ford\Livonia\04 Draft Reports\17-08-21 CSM\Figures\Figure 27 - Cross Section E.pdf PLOTTED: 8/23/2017 BY:ayanties 8/23/2017 4:26:09 PM

LEGEND



Notes:
 1. µg/L = Micrograms per Liter
 2. Vertical Exaggeration = 10X
 3. The Michigan Department of Environmental Quality Nonresidential Drinking Water criteria for Vinyl Chloride is 2.0 µg/L

FORD MOTOR COMPANY
 LIVONIA TRANSMISSION PLANT
 LIVONIA, MICHIGAN

CROSS SECTION E-E' - VINYL CHLORIDE AND HYDRAULIC CONDUCTIVITY

ARCADIS Design & Consultancy for natural and built assets

FIGURE 27

CITY: Novi; DIV: ENV; DB: MG; PIC: R. ELLIS; PM: K. HINSKEY; PROJECT NUMBER: M1001322.0001; COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Int; Z:\GIS\Projects\ENV\Novi\Brighton_MtFord\LVonia\GIS\docs\2017-08\Offsite_VC_GW_Post_20170821.mxd; PLOTTED: 8/21/2017 12:44:40 PM; BY: mrgsr

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LEGEND

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY
- OFF-SITE HPT BORING
VINYL CHLORIDE ≤ 2.0 µg/L
- OFF-SITE HPT BORING
VINYL CHLORIDE > 2.0 µg/L

NOTES:

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

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

THE GROUNDWATER-SURFACE WATER INTERFACE CRITERIA FOR VINYL CHLORIDE IS 13 µg/L.

THE SITE-SPECIFIC VAPOR INTRUSION SCREENING VALUE FOR OFF-SITE IS BELOW THE TARGET DETECTION LIMIT FOR VINYL CHLORIDE.

FT = FEET BELOW GROUND SURFACE

HPT = HYDRAULIC PROFILING TOOL

J = ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT.

MDEQ = MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

ND = NON-DETECT, REPORTING LIMIT PRESENTED

DATA COLLECTED DURING FEBRUARY, MAY, AND JULY 2016 SAMPLING EVENTS.

BLUE BOX INDICATES EXCEEDANCE OF MDEQ 2013 RESIDENTIAL DRINKING WATER CRITERIA FOR VINYL CHLORIDE



FORD MOTOR COMPANY
LIVONIA TRANSMISSION PLANT
LIVONIA, MICHIGAN

OFF-SITE VINYL CHLORIDE IN GROUNDWATER

ARCADIS Design & Consultancy
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FIGURE
39

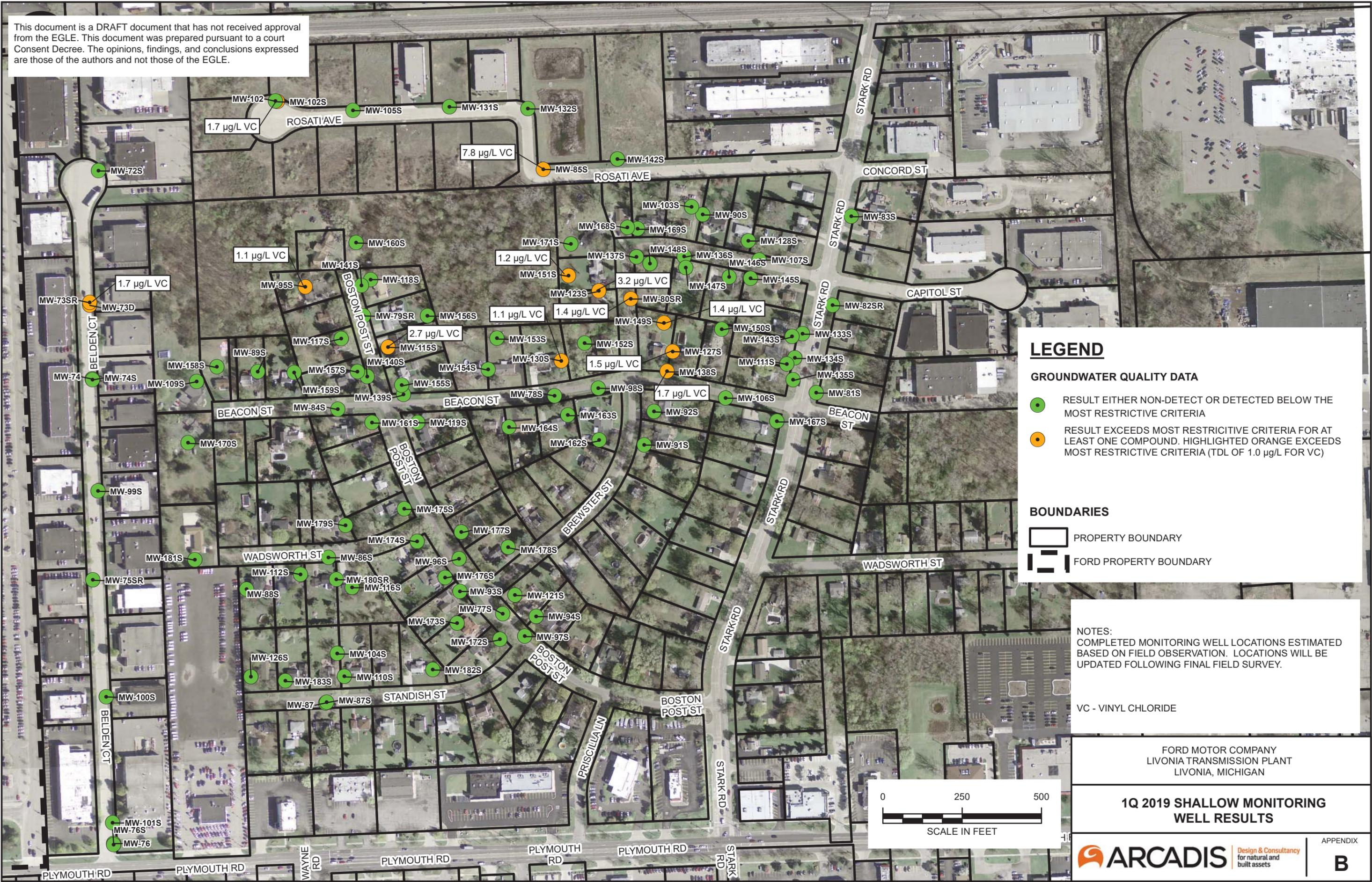
APPENDIX B

Quarterly Groundwater Analytical Results



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CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001322.0001 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl
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LEGEND

GROUNDWATER QUALITY DATA

- RESULT EITHER NON-DETECT OR DETECTED BELOW THE MOST RESTRICTIVE CRITERIA
- RESULT EXCEEDS MOST RESTRICTIVE CRITERIA FOR AT LEAST ONE COMPOUND. HIGHLIGHTED ORANGE EXCEEDS MOST RESTRICTIVE CRITERIA (TDL OF 1.0 µg/L FOR VC)

BOUNDARIES

- ▭ PROPERTY BOUNDARY
- ▭ FORD PROPERTY BOUNDARY

NOTES:
 COMPLETED MONITORING WELL LOCATIONS ESTIMATED BASED ON FIELD OBSERVATION. LOCATIONS WILL BE UPDATED FOLLOWING FINAL FIELD SURVEY.

VC - VINYL CHLORIDE

FORD MOTOR COMPANY
 LIVONIA TRANSMISSION PLANT
 LIVONIA, MICHIGAN

1Q 2019 SHALLOW MONITORING WELL RESULTS



Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
Ford Livonia

Location:		MW-72	MW-72	MW-72	MW-72	MW-72S	MW-73D	MW-73D	MW-73D	MW-73D	MW-73S	MW-73S	MW-73S	MW-73S	MW-73SR				
Date:		2/6/2018	5/9/2018	8/10/2018	10/22/2018	12/17/2018	2/6/2018	5/9/2018	8/10/2018	10/22/2018	2/6/2018	5/9/2018	8/10/2018	10/22/2018	12/17/2018				
Sample Name:		MW-72-020618	MW-72_050818	MW-72_081018	MW-72_102218	MW-72S-121718	MW-73D-020618	MW-73D_050918	MW-73D_081018	MW-73D_102218	MW-73S-020618	MW-73S_050818	MW-73S_081018	MW-73S_102218	MW-73SR-121718				
Screen Interval (ft. bgs):		15-20	15-20	15-20	15-20	3-13	13.5-18.5	13.5-18.5	13.5-18.5	13.5-18.5	7-12	7-12	7-12	7-12	2.5-12.5				
Lab SDG #:		91361-1	95403-1	99859-1	103231-1	106083-1	91361-1	95547-1	99859-1	103231-1	91361-1	95403-1	99859-1	103231-1	106083-1				
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	0.78 J	0.32 J	1.1 J	1.4 J	< 2.0	1.5 J	3.0	1.9 J	3.8	< 2.0	< 2.0	< 2.0	0.86 J	0.87 J
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.43 J	0.35 J	0.56 J	0.19 J	1.3	1.3	1.5	1.7	2.3
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	0.43 J
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.33 J	0.38 J	0.51 J	0.46 J	0.29 J
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	1.3	1.5 J	1.2	1.1	< 1.0	0.79 J	0.80 J	0.75 J	< 1.0	1.1	1.2	0.62 J	0.96 J	1.7

Location:		MW-74	MW-74	MW-74	MW-74	MW-74S	MW-75D	MW-75D	MW-75D	MW-75D	MW-75S	MW-75S	MW-75S	MW-75S	MW-75SR				
Date:		2/6/2018	5/9/2018	8/9/2018	10/22/2018	12/21/2018	2/6/2018	5/9/2018	8/9/2018	10/22/2018	2/6/2018	5/9/2018	8/9/2018	10/22/2018	12/18/2018				
Sample Name:		MW-74-020618	MW-74_050918	MW-74_080918	MW-74_102218	MW-74S-122118	MW-75D-020618	MW-75D_050918	MW-75D_080918	MW-75D_102218	MW-75S-020618	MW-75S_050918	MW-75S_080918	MW-75S_102218	MW-75 SR-121818				
Screen Interval (ft. bgs):		14-19	14-19	14-19	14-19	3-13	12-17	12-17	12-17	12-17	5-10	5-10	5-10	5-10	2.5-12.5				
Lab SDG #:		91361-1	95547-1	99859-1	103231-1	106317-1	91361-1	95547-1	99859-1	103231-1	91361-1	95547-1	99859-1	103231-1	106083-2				
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	0.66 J	0.34 J	1.6 J	2.0	< 2.0	0.91 J	0.65 J	2.0	2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	0.42 J	0.41 J	0.45 J	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	2.0	0.70 J	2.8	2.2	< 1.0	1.9	2.4	1.8	1.7	< 1.0	< 1.0 J	< 1.0	< 1.0	< 1.0

Location:		MW-76	MW-76	MW-76	MW-76	MW-76S	MW-77	MW-77	MW-77	MW-77	MW-77S	MW-78	MW-78	MW-78	MW-78				
Date:		2/6/2018	5/10/2018	8/9/2018	10/22/2018	12/21/2018	2/8/2018	5/11/2018	8/6/2018	10/23/2018	12/27/2018	2/8/2018	5/8/2018	8/6/2018	10/22/2018				
Sample Name:		MW-76-020618	MW-76_051018	MW-76_080918	MW-76_102218	MW-76S-MS/MSD-122118	MW-77_020818	MW-77_051118	MW-77_080618	MW-77_102318	MW-77S_122718	MW-78_020818	MW-78_050818	MW-78_080618	MW-78_102218				
Screen Interval (ft. bgs):		15-20	15-20	15-20	15-20	4.5-14.5	9-14	9-14	9-14	9-14	2.5-12.5	7-12	7-12	7-12	7-12				
Lab SDG #:		91361-1	95547-1	99859-1	103231-1	106318-1	91428-1	95547-1	99575-1	103472-1	106464-1	91428-1	95403-1	99575-1	103230-1				
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	1.0 J	< 2.0	< 2.0	0.27 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.90 J
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	2.2	2.6	2.2	1.8	< 1.0	0.66 J	0.54 J	0.61 J	0.74 J	< 1.0	< 1.0	< 1.0	0.28 J	0.26 J
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	0.35 J	0.35 J	0.25 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

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Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
Ford Livonia

Location:						MW-78S	MW-79D	MW-79D	MW-79D	MW-79D	MW-79S	MW-79S	MW-79S	MW-79S	MW-79SR	MW-80S	MW-80S	MW-80S	MW-80S
Date:						12/19/2018	2/8/2018	5/8/2018	8/6/2018	10/24/2018	2/8/2018	5/8/2018	8/6/2018	10/30/2018	12/19/2018	2/8/2018	5/8/2018	8/6/2018	10/22/2018
Sample Name:						MW-78S_121918	MW-79D_020818	MW-79D_050818	MW-79D_080618	MW-79_102418	MW-79S_020818	MW-79S_050818	MW-79S_080618	MW-79S_103018	MW-79SR-121918	MW-80S_020818	MW-80S_050818	MW-80S_080618	MW-80S_102218
Screen Interval (ft. bgs):						2.5-12.5	10-15	10-15	10-15	10-15	5-10	5-10	5-10	5-10	2.5-12.5	7-12	7-12	7-12	7-12
Lab SDG #:						106260-1	91428-1	95403-1	99575-1	103472-1	91428-1	95403-1	99575-1	103818-1	106257-1	91428-1	95403-1	99575-1	103230-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	0.49 J	0.87 J	0.95 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.33 J	0.46 J	< 2.0	1.2 J
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	1.9	3.5	2.8	1.3	< 1.0	< 1.0	< 1.0	< 1.0	0.56 J	2.9	6.3	6.2	4.1

Location:						MW-80SR	MW-81	MW-81	MW-81	MW-81	MW-81S	MW-82D	MW-82D	MW-82D	MW-82D	MW-82S	MW-82S	MW-82S	MW-82S
Date:						12/27/2018	2/6/2018	5/10/2018	8/9/2018	10/23/2018	12/26/2018	2/6/2018	5/10/2018	8/8/2018	10/23/2018	2/6/2018	5/10/2018	8/8/2018	10/23/2018
Sample Name:						MW-80SR_122718	MW-81-020618	MW-81_051018	MW-81_080918	MW-81_102318	MW-81S_122618	MW-82D-020618	MW-82D_051018	MW-82D-080818	MW-82D_102318	MW-82S-020618	MW-82S_051018	MW-82S-080818	MW-82S_102318
Screen Interval (ft. bgs):						2.5-12.5	8-13	8-13	8-13	8-13	2.5-12.5	18-23	18-23	18-23	18-23	9-14	9-14	9-14	9-14
Lab SDG #:						106467-1	91361-1	95547-1	99859-1	103472-1	106456-1	91361-1	95547-1	99733-1	103472-1	91361-1	95547-1	99733-1	103472-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Location:						MW-82SR	MW-83	MW-83	MW-83	MW-83	MW-83S	MW-84	MW-84	MW-84	MW-84	MW-84S	MW-85	MW-85	MW-85
Date:						12/26/2018	2/8/2018	5/11/2018	8/8/2018	10/22/2018	12/26/2018	2/8/2018	5/8/2018	8/6/2018	10/23/2018	12/21/2018	2/8/2018	5/8/2018	8/8/2018
Sample Name:						MW-82SR_122618	MW-83_020818	MW-83_051118	MW-83-080818	MW-83_102218	MW-83S-MS/MSD_122618	MW-84_020818	MW-84_050818	MW-84_080618	MW-84_102318	MW-84S-122118	MW-85_020818	MW-85_050818	MW-85-080818
Screen Interval (ft. bgs):						5-15	8-13	8-13	8-13	8-13	3-13	8-13	8-13	8-13	8-13	2.5-12.5	8-13	8-13	8-13
Lab SDG #:						106456-1	91428-1	95547-1	99733-1	103230-1	106456-1	91428-1	95403-1	99575-1	103472-1	106318-1	91428-1	95403-1	99733-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	0.92 J	< 2.0	< 2.0	< 2.0	< 2.0	0.86 J	< 2.0	0.41 J	0.45 J	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	< 1.0	0.14 J	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.5	7.5	7.2

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Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
Ford Livonia

Location:						MW-85	MW-85S	MW-86	MW-86	MW-86	MW-86	MW-86S	MW-87	MW-87	MW-87	MW-87	MW-87S	MW-88S	MW-89S
Date:						10/22/2018	12/21/2018	2/8/2018	5/10/2018	8/6/2018	10/24/2018	12/18/2018	2/8/2018	5/10/2018	8/6/2018	10/23/2018	12/21/2018	12/17/2018	12/19/2018
Sample Name:						MW-85_102218	MW-85S-122118	MW-86_020818	MW-86_051018	MW-86_080618	MW-86_102418	MW-86S-121818	MW-87_020818	MW-87_051018	MW-87_080618	MW-87_102318	MW-87S-122118	MW-88S-121718	MW-89S-121918
Screen Interval (ft. bgs):						8-13	2.5-12.5	12-17	12-17	12-17	12-17	2.5-12.5	14-19	14-19	14-19	14-19	4.5-14.5	3-13	3-13
Lab SDG #:						103230-1	106318-1	91428-1	95547-1	99575-1	103472-1	106083-2	91428-1	95547-1	99575-1	103472-1	106317-1	106083-1	106257-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	1.0 J	1.1 J	< 2.0	1.2 J	< 2.0	1.4 J	< 2.0	< 2.0	< 2.0	< 2.0	0.88 J	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	5.5	7.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Location:						MW-90S	MW-91S	MW-92S	MW-93S	MW-94S	MW-94S	MW-95S	MW-96S	MW-97S	MW-98S	MW-99S	MW-100S	MW-101S	MW-102
Date:						12/27/2018	12/28/2018	12/19/2018	12/17/2018	12/21/2018	12/21/2018	12/19/2018	12/18/2018	12/27/2018	12/19/2018	12/21/2018	12/18/2018	12/21/2018	12/19/2018
Sample Name:						MW-90S_122718	MW-91S_122818	MW-92S-121918	MW-93S-121718	MW-94S-122118	DUP-02-122118	MW-95S-121918	MW-96S-121818	MW-97S_122718	MW-98S_121918	MW-99S-122118	MW-100S-121818	MW-101S-122118	MW-102_121918
Screen Interval (ft. bgs):						2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	3-13	3-13	4.5-14.5	10-15
Lab SDG #:						106467-1	106462-1	106257-1	106083-1	106317-1	106317-1	106257-1	106083-2	106464-1	106260-1	106317-1	106083-2	106318-1	106260-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.0 J	< 2.0	1.7 J
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	0.18 J	< 1.0	< 1.0	< 1.0	< 1.0	0.94 J	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.22 J	< 1.0	1.6

Location:						MW-102	MW-102S	MW-102S	MW-103S	MW-104S	MW-105S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	MW-112S
Date:						2/25/2019	12/19/2018	2/25/2019	2/5/2019	2/5/2019	12/26/2018	2/25/2019	12/19/2018	12/26/2018	12/26/2018	12/28/2018	2/5/2019	2/4/2019	12/28/2018
Sample Name:						MW-102_022519	MW-102S_121918	MW-102S_022519	MW-103S-020519	MW-104S-020519	MW-105S_122618	MW-105S_022519	MW-106S_121918	MW-107S_122618	MW-108S_122618	MW-109S_122818	MW-110S-020519	MW-111S_020419	MW-112S_122818
Screen Interval (ft. bgs):						10-15	2.5-12.5	2.5-12.5	2-7	9-14	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	8-13	8-13	2.5-12.5
Lab SDG #:						108565-1	106260-1	108565-1	107779-1	107781-1	106468-1	108565-1	106260-1	106456-1	106468-1	106461-1	107782-1	107780-1	106461-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	1.3 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.90 J	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.25 J	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	1.7	< 1.0	< 1.0	0.58 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.28 J	< 1.0	< 1.0	< 1.0

See Notes on Page 5

Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
Ford Livonia

Location:						MW-115S	MW-116S	MW-117S	MW-118S	MW-118S	MW-119S	MW-121S	MW-123S	MW-123S	MW-126S	MW-127S	MW-128S	MW-128S	MW-130S
Date:						12/26/2018	12/26/2018	12/26/2018	12/27/2018	12/27/2018	12/27/2018	12/27/2018	12/28/2018	12/28/2018	12/27/2018	12/27/2018	12/27/2018	12/27/2018	12/28/2018
Sample Name:						MW-115S_122618	MW-116S_122618	MW-117S_122618	MW-118S_122718	DUP-04_122718	MW-119S_122718	MW-121S_122718	MW-123S_122818	DUP-05_122818	MW-126S_122718	MW-127S_122818	MW-128S_122718	DUP-03_122718	MW-130S_122818
Screen Interval (ft. bgs):						2.5-12.5	3-13	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	3-13	3-13	4-14	4-14	3-13
Lab SDG #:						106465-1	106465-1	106465-1	106466-1	106466-1	106466-1	106466-1	106463-1	106463-1	106464-1	106462-1	106467-1	106467-1	106463-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.19 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	0.29 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	2.7	< 1.0	0.92 J	0.68 J	0.74 J	< 1.0	< 1.0	4.6	3.2	< 1.0	1.5	< 1.0	< 1.0	1.1

Location:						MW-131S	MW-132S	MW-133S	MW-134S	MW-135S	MW-136S	MW-137S	MW-138S	MW-139S	MW-140S	MW-141S	MW-142S	MW-143S	MW-145S
Date:						12/26/2018	12/26/2018	2/14/2019	2/14/2019	2/14/2019	2/19/2019	2/23/2019	2/19/2019	2/26/2019	2/26/2019	2/27/2019	2/25/2019	2/20/2019	2/20/2019
Sample Name:						MW-131S_122618	MW-132S_122618	MW-133S_021419	MW-134S_021419	MW-135S_021419	MW-136S_021919	MW-137S-022319	MW-138S-021919	MW-139S-022619	MW-140S-022619	MW-141S_022719	MW-142S_022519	MW-143S-022019	MW-145S-022019
Screen Interval (ft. bgs):						2.5-12.5	2.5-12.5	4-9	5-10	5-10	2-7	2-7	2-7	2-7	2-7	3-8	2.5-7.5	5.5-10.5	6-11
Lab SDG #:						106468-1	106468-1	108101-1	108101-1	108101-1	108389-1	108500-1	108384-1	108628-1	108630-1	108722-1	108560-1	108383-1	108385-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	1.0 J	< 2.0	< 2 U	< 2 U	< 2 U	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1 U	< 1 U	< 1 U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1 U	< 1 U	< 1 U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1 U	< 1 U	< 1 U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1 U	< 1 U	< 1 U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1 U	< 1 U	< 1 U	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	0.98 J	< 1.0	< 1 U	< 1 U	< 1 U	< 1.0	< 1.0	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Location:						MW-146S	MW-147S	MW-148S	MW-149S	MW-150S	MW-151S	MW-152S	MW-153S	MW-154S	MW-155S	MW-155S	MW-156S	MW-158S	MW-159S
Date:						2/20/2019	2/20/2019	2/23/2019	2/21/2019	2/25/2019	2/23/2019	2/21/2019	2/21/2019	2/21/2019	2/26/2019	2/26/2019	2/27/2019	2/22/2019	2/22/2019
Sample Name:						MW-146S-022019	MW-147S-022019	MW-148S-022319	MW-149S-022119	MW-150S_022519	MW-151S-022319	MW-152S-022119	MW-153S-022119	MW-154S-022119	MW-155S-022619	DUP-03-022619	MW-156S_022719	MW-158S-022219	MW-159S-022219
Screen Interval (ft. bgs):						6-11	2-7	2-7	2-7	2-7	2.5-7.5	2.5-7.5	2-7	2-7	2-7	2-7	3-8	2.5-7.5	4-9
Lab SDG #:						108387-1	108386-1	108504-1	108469-1	108559-1	108502-1	108464-1	108463-1	108462-1	108631-1	108631-1	108723-1	108465-1	108467-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW														
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	0.23 J	0.38 J	0.94 J	1.4	0.46 J	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

See Notes on Page 5

Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
Ford Livonia

Location:						MW-160S	MW-161S	MW-162S	MW-163S	MW-163S	MW-164S	MW-167S	MW-168S
Date:						2/27/2019	2/27/2019	2/28/2019	2/28/2019	2/28/2019	2/22/2019	2/25/2019	2/25/2019
Sample Name:						MW-160S_022719	MW-161S_022719	MW-162S-022819	MW-163S-022819	DUP-04-022819	MW-164S-022219	MW-167S_022519	MW-168S_022519
Screen Interval (ft. bgs):						4-9	2.5-7.5	3-8	2-7	2-7	3-8	5-10	2-7
Lab SDG #:						108721-1	108720-1	108810-1	108808-1	108808-1	108468-1	108557-1	108561-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW								
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 J
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Location:						MW-169S	MW-170S	MW-171S	MW-172S	MW-173S	MW-174S	MW-175S	MW-176S
Date:						2/25/2019	3/6/2019	2/23/2019	2/28/2019	2/28/2019	2/28/2019	3/1/2019	3/5/2019
Sample Name:						MW-169S_022519	MW-170S_030619	MW-171S-022319	MW-172S-022819	MW-173S-022819	MW-174S-022819	MW-175S-030119	MW-176S_030519
Screen Interval (ft. bgs):						2-7	4.5-9.5	2-7	4.5-9.5	5.5-10.5	5.5-10.5	6-11	5-10
Lab SDG #:						108555-1	109088-1	108503-1	108806-1	108812-1	108804-1	108807-1	109011-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW								
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.14 J	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Location:						MW-177S	MW-178S	MW-179S	MW-181S	MW-182S	MW-182S	MW-183S
Date:						3/5/2019	3/4/2019	3/4/2019	3/4/2019	3/5/2019	3/5/2019	3/1/2019
Sample Name:						MW-177S_030519	MW-178S_030419	MW-179S_030419	MW-181S_030419	MW-182S_030519	DUP-05_030519	MW-183S-030119
Screen Interval (ft. bgs):						4-9	4.5-9.5	6-11	3.5-8.5	4-9	4-9	8-13
Lab SDG #:						109013-1	108923-1	108922-1	108920-1	109010-1	109010-1	108813-1
analytic_method	chemical_name	fraction	cas_rn	Ford_LTP _Offsite Res DW	MI GW (DEQ2018) NON-RES DW							
SW8468260BBYSIM	1,4-Dioxane	T	123-91-1	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	T	75-35-4	7.0	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	T	156-59-2	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	T	127-18-4	5.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	T	156-60-5	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	T	79-01-6	1.0	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	T	75-01-4	1.0	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

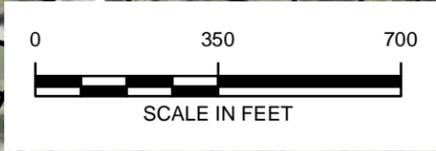
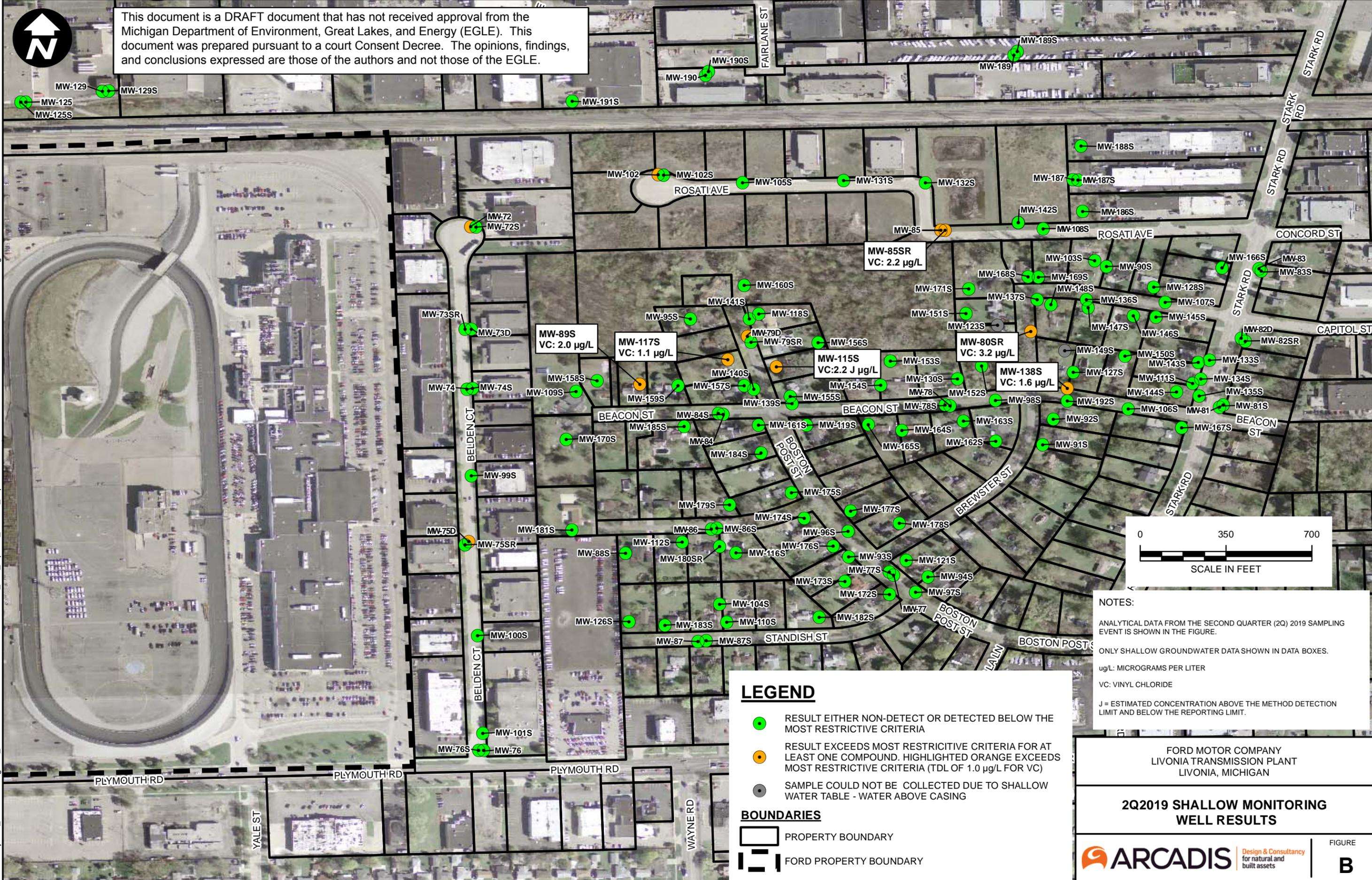
Notes:
All units are measured in micrograms per liter.

Abbreviations:
ft bgs Feet below ground surface



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CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001454.0007 COORDINATE SYSTEM: GCS North American 1983 Z:\GIS\Projects\ENVI\Novi\Brighton_MNFordLivonia\GIS\docs\2019\2019_Results_10pts.mxd PLOTTED: 7/16/2019 10:37:01 AM BY: ksinsabaugh



NOTES:
 ANALYTICAL DATA FROM THE SECOND QUARTER (2Q) 2019 SAMPLING EVENT IS SHOWN IN THE FIGURE.
 ONLY SHALLOW GROUNDWATER DATA SHOWN IN DATA BOXES.
 µg/L: MICROGRAMS PER LITER
 VC: VINYL CHLORIDE
 J = ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT.

- LEGEND**
- RESULT EITHER NON-DETECT OR DETECTED BELOW THE MOST RESTRICTIVE CRITERIA
 - RESULT EXCEEDS MOST RESTRICTIVE CRITERIA FOR AT LEAST ONE COMPOUND. HIGHLIGHTED ORANGE EXCEEDS MOST RESTRICTIVE CRITERIA (TDL OF 1.0 µg/L FOR VC)
 - SAMPLE COULD NOT BE COLLECTED DUE TO SHALLOW WATER TABLE - WATER ABOVE CASING

- BOUNDARIES**
- PROPERTY BOUNDARY
 - FORD PROPERTY BOUNDARY

FORD MOTOR COMPANY
 LIVONIA TRANSMISSION PLANT
 LIVONIA, MICHIGAN

2Q2019 SHALLOW MONITORING WELL RESULTS

ARCADIS Design & Consultancy for natural and built assets

FIGURE **B**

**Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
2Q 2019
Ford Livonia Transmission Plant**

Location:				MW-72	MW-72S	MW-73D	MW-73SR	MW-74	MW-74S	MW-75D	MW-75SR	MW-76	MW-76S	MW-77	MW-77S	MW-78	MW-78S	MW-79D	
Date:				5/17/2019	5/8/2019	5/8/2019	5/8/2019	5/17/2019	5/8/2019	5/15/2019	5/8/2019	5/17/2019	5/8/2019	5/16/2019	5/16/2019	5/13/2019	5/13/2019	5/13/2019	5/15/2019
Screen Interval (ft. bgs):				15-20	3-13	13.5-18.5	2.5-12.5	14-19	3-13	12-17	2.5-12.5	15-20	4.5-14.5	9-14	2.5-12.5	7-12	2.5-12.5	10-15	
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	2.3	< 2.0	< 2.0	< 2.0	1.5 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.99 J	
SW8260B	1,1-Dichloroethene	7	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	1.8	1.3	0.97 J	< 1.0	< 1.0	1.2	< 1.0	0.39 J	< 1.0	0.19 J	< 1.0	< 1.0	
SW8260B	Tetrachloroethene	5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	Trichloroethene	1	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	Vinyl chloride	1	2	1.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.7	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	2.6	

Location:				MW-79SR	MW-80SR	MW-81	MW-81S	MW-82D	MW-82SR	MW-83	MW-83S	MW-84	MW-84S	MW-85	MW-85SR	MW-86	MW-86S	MW-87
Date:				5/15/2019	4/35/19	5/17/2019	5/17/2019	5/17/2019	5/17/2019	5/22/2019	5/22/2019	5/21/2019	5/9/2019	5/17/2019	4/12/2019	5/21/2019	5/13/2019	5/21/2019
Screen Interval (ft. bgs):				2.5-12.5	2.5-12.5	8-13	2.5-12.5	18-23	5-15	8-13	3-13	8-13	2.5-12.5	8-13	4.5-9.5	12-17	2.5-12.5	14-19
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW															
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.3 J	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1	2	0.36 J	3.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.4	2.2	< 1.0	< 1.0	< 1.0

Location:				MW-87S	MW-88S	MW-89S	MW-90S	MW-91S	MW-92S	MW-93S	MW-94S	MW-95S	MW-96S	MW-97S	MW-98S	MW-99S	MW-100S	MW-101S	
Date:				5/13/2019	5/16/2019	5/10/2019	5/14/2019	5/21/2019	5/17/2019	5/13/2019	5/15/2019	5/16/2019	5/16/2019	5/10/2019	5/10/2019	5/9/2019	5/9/2019	5/9/2019	5/8/2019
Screen Interval (ft. bgs):				4.5-14.5	3-13	3-13	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	3-13	3-13	4.5-14.5	
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	1.3 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
SW8260B	1,1-Dichloroethene	7	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	0.43 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.89 J	< 1.0	< 1.0	
SW8260B	Tetrachloroethene	5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	0.24 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	Trichloroethene	1	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	Vinyl chloride	1	2	< 1.0	< 1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Notes:
All units are measured in micrograms per liter (µg/l).
All results are compared to the EGLE Part 201 Generic Cleanup Criteria, December 31, 2013.
Bolded Result exceeds residential Drinking Water criteria
< Result not detected above reporting limit.

Abbreviations:
EGLE Michigan Department of Environment, Great Lakes, and Energy
ft. bgs feet below ground surface
J estimated result

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**Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
2Q 2019
Ford Livonia Transmission Plant**

Location:				MW-102	MW-102S	MW-103S	MW-104S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	MW-112S	MW-115S	MW-116S	MW-117S	
Date:				5/17/2019	5/14/2019	5/16/2019	5/15/2019	5/14/2019	5/16/2019	5/10/2019	5/14/2019	5/10/2019	5/15/2019	5/15/2019	5/16/2019	5/17/2019	5/16/2019	5/16/2019	5/16/2019
Screen Interval (ft. bgs):				10-15	2.5-12.5	2.0-7.0	9.0-14.0	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	8.0-13.0	8.0-13.0	2.5-12.5	2.5-12.5	3-13	2.5-12.5	
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	1.1J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.93 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J
SW8260B	Tetrachloroethene	5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.37 J
SW8260B	Vinyl chloride	1	2	1.8	< 1.0	0.36 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.2 J	< 1.0	1.1

Location:				MW-118S	MW-119S	MW-121S	MW-125	MW-125S	MW-126S	MW-127S	MW-128S	MW-129	MW-129S	MW-130S	MW-131S	MW-132S	MW-133S	MW-134S	
Date:				5/15/2019	5/10/2019	5/13/2019	4/18/2019	4/18/2019	5/13/2019	5/16/2019	5/22/2019	4/18/2019	4/18/2019	5/13/2019	5/14/2019	5/14/2019	5/23/2019	5/20/2019	
Screen Interval (ft. bgs):				2.5-12.5	2.5-12.5	2.5-12.5	7-12	2-7	3-13	3-13	4-14	10-15	2-7	3-13	2.5-12.5	2.5-12.5	4-9	5-10	
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.4 J	1.3 J	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	0.16 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.97 J	0.85 J	< 1.0	< 1.0	< 1.0	< 1.0

Location:				MW-135S	MW-136S	MW-137S	MW-138S	MW-139S	MW-140S	MW-141S	MW-142S	MW-143S	MW-144S	MW-145S	MW-146S	MW-147S	MW-148S	MW-150S	
Date:				5/20/2019	5/22/2019	5/13/2019	5/16/2019	5/9/2019	5/16/2019	5/15/2019	5/23/2019	5/23/2019	5/20/2019	5/23/2019	5/14/2019	5/15/2019	5/15/2019	5/22/2019	
Screen Interval (ft. bgs):				5-10	2-7	2-7	2-7	2-7	2-7	3-8	2.5-7.5	5.5-10.5	7-12	6-11	6-11	2-7	2-7	2-7	
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.2 J	< 2.0	1.1 J	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1	2	< 1.0	< 1.0	0.91 J	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	< 1.0	0.76 J	< 1.0	< 1.0

Notes:
 All units are measured in micrograms per liter (µg/l).
 All results are compared to the EGLE Part 201 Generic Cleanup Criteria, December 31, 2013.
Bolded < Result exceeds residential Drinking Water criteria
 < Result not detected above reporting limit.

Abbreviations:
 EGLE Michigan Department of Environment, Great Lakes, and Energy
 ft. bgs feet below ground surface
 J estimated result

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**Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
2Q 2019
Ford Livonia Transmission Plant**

Location:				MW-151S	MW-152S	MW-153S	MW-154S	MW-155S	MW-156S	MW-157S	MW-158S	MW-159S	MW-160S	MW-161S	MW-162S	MW-163S	MW-164S	MW-165S
Date:				5/21/2019	5/14/2019	5/10/2019	5/14/2019	5/9/2019	5/17/2019	5/16/2019	5/10/2019	5/9/2019	5/16/2019	5/9/2019	5/17/2019	5/10/2019	5/10/2019	5/10/2019
Screen Interval (ft. bgs):				2.5-7.5	2.5-7.5	2-7	2-7	2-7	3-8	2.5-7.5	2.5-7.5	4-9	4-9	2.5-7.5	3-8	2-7	3-8	2-7
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW															
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1	2	0.92J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Location:				MW-166S	MW-167S	MW-168S	MW-169S	MW-170S	MW-171S	MW-172S	MW-173S	MW-174S	MW-175S	MW-176S	MW-177S	MW-178S	MW-179S	MW-180SR
Date:				5/23/2019	5/20/2019	5/15/2019	5/15/2019	5/10/2019	5/13/2019	5/13/2019	5/13/2019	5/13/2019	5/13/2019	5/13/2019	5/15/2019	5/15/2019	5/17/2019	5/16/2019
Screen Interval (ft. bgs):				6-11	5-10	2-7	2-7	4.5-9.5	2-7	4.5-9.5	5.5-10.5	5.5-10.5	6-11	5-10	4-9	4.5-9.5	6-11	6.5-11.5
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW															
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.8
SW8260B	1,1-Dichloroethene	7	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Location:				MW-181S	MW-182S	MW-183S	MW-184S	MW-185S	MW-186S	MW-187	MW-187S	MW-188S	MW-189	MW-189S	MW-190	MW-190S	MW-191S	MW-192S	
Date:				5/16/2019	5/13/2019	5/13/2019	5/15/2019	5/9/2019	4/12/2019	4/12/2019	4/12/2019	4/18/2019	4/16/2019	4/16/2019	4/19/2019	4/19/2019	4/19/2019	4/22/2019	4/11/2019
Screen Interval (ft. bgs):				3.5-8.5	4-9	8-13	4.5-9.5	6-11	2.5-7.5	13-Aug	8-Mar	8-Mar	15-Oct	4.5-9.5	14-Sep	2.5-7.5	2.5-7.5	2.5-7.5	
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON-RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
SW8260B	1,1-Dichloroethene	7	7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	0.74J	1.0	2.3	< 1.0	
SW8260B	Tetrachloroethene	5	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	Trichloroethene	1	5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.57J	
SW8260B	Vinyl chloride	1	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

Notes:
All units are measured in micrograms per liter (µg/l).
All results are compared to the EGLE Part 201 Generic Cleanup Criteria, December 31, 2013.
Bolded Result exceeds residential Drinking Water criteria
< Result not detected above reporting limit.

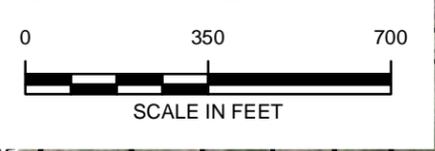
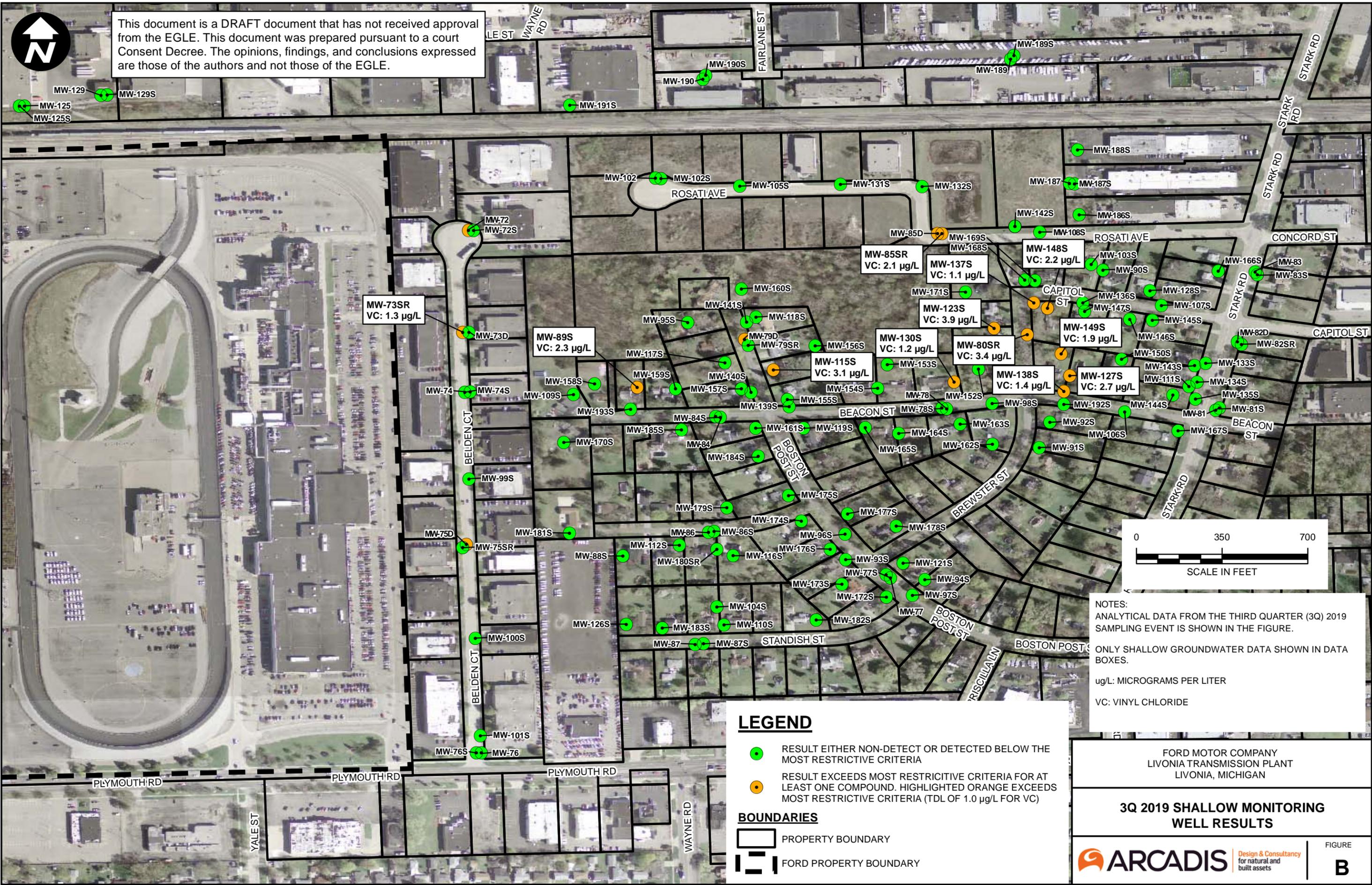
Abbreviations:
EGLE Michigan Department of Environment, Great Lakes, and Energy
ft. bgs feet below ground surface
J estimated result

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CITY: Novi DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY PROJECT NUMBER: MI001454.0007 COORDINATE SYSTEM: GCS North American 1983 Z:\GIS\Projects\ENVI\Novi\Brighton_MIFord\LVonia\GIS\docs\GEC3Q_2019\Shallow_MW_3q2019_Results_10p15.mxd PLOTTED: 11/3/2019 11:13:39 PM BY: Sharmayh4948



NOTES:
 ANALYTICAL DATA FROM THE THIRD QUARTER (3Q) 2019 SAMPLING EVENT IS SHOWN IN THE FIGURE.
 ONLY SHALLOW GROUNDWATER DATA SHOWN IN DATA BOXES.
 µg/L: MICROGRAMS PER LITER
 VC: VINYL CHLORIDE

LEGEND

- RESULT EITHER NON-DETECT OR DETECTED BELOW THE MOST RESTRICTIVE CRITERIA
- RESULT EXCEEDS MOST RESTRICTIVE CRITERIA FOR AT LEAST ONE COMPOUND. HIGHLIGHTED ORANGE EXCEEDS MOST RESTRICTIVE CRITERIA (TDL OF 1.0 µg/L FOR VC)

BOUNDARIES

- PROPERTY BOUNDARY
- FORD PROPERTY BOUNDARY

3Q 2019 SHALLOW MONITORING WELL RESULTS



FIGURE
B

FORD MOTOR COMPANY
 LIVONIA TRANSMISSION PLANT
 LIVONIA, MICHIGAN

**Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
3Q 2019
Ford Livonia Transmission Plant**

				Location: Date:	MW-72 9/23/2019	MW-72S 9/23/2019	MW-73D 9/24/2019	MW-73SR 9/24/2019	MW-74 9/18/2019	MW-74S 9/18/2019	MW-75D 9/18/2019	MW-75SR 9/18/2019	MW-76 9/17/2019	MW-76S 9/17/2019	MW-77 9/17/2019	MW-77S 9/17/2019	MW-78 9/19/2019	MW-78S 9/19/2019	MW-79D 9/19/2019
				Screen Interval (ft. bgs):	15-20	3-13	13.5-18.5	2.5-12.5	14-19	3-13	12-17	2.5-12.5	15-20	4.5-14.5	9-14	2.5-12.5	7-12	2.5-12.5	10-15
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON- RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	3.8	< 2.0	1.4 J	< 2.0	3.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	0.62 J	1.0	< 1.0	< 1.0	< 1.0	1.4	< 1.0	0.66 J	< 1.0	0.22 J	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0	< 1.0	< 1.0	< 1.0	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1.0	2.0	1.5	< 1.0	0.48 J	1.3	1.7	< 1.0	1.6	0.51 J	< 1.0	< 1.0	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0	1.5

				Location: Date:	MW-79SR 9/18/2019	MW-80SR 9/23/2019	MW-81 9/19/2019	MW-81S 9/19/2019	MW-82D 9/23/2019	MW-82SR 9/23/2019	MW-83 9/18/2019	MW-83S 9/18/2019	MW-84 9/24/2019	MW-84S 9/24/2019	MW-85 9/17/2019	MW-85SR 9/17/2019	MW-86 9/19/2019	MW-86S 9/19/2019	MW-87 9/20/2019
				Screen Interval (ft. bgs):	2.5-12.5	2.5-12.5	8-13	2.5-12.5	18-23	5-15	8-13	3-13	8-13	2.5-12.5	8-13	4.5-9.5	12-17	2.5-12.5	14-19
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON- RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.17 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1.0	2.0	0.40 J	3.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.5	2.1	< 1.0	< 1.0	< 1.0	< 1.0

				Location: Date:	MW-87S 9/20/2019	MW-88S 9/17/2019	MW-89S 9/24/2019	MW-90S 9/20/2019	MW-91S 9/18/2019	MW-92S 9/18/2019	MW-93S 9/16/2019	MW-94S 9/19/2019	MW-95S 9/18/2019	MW-96S 9/20/2019	MW-97S 9/19/2019	MW-98S 9/20/2019	MW-99S 9/16/2019	MW-100S 9/16/2019	MW-101S 9/16/2019
				Screen Interval (ft. bgs):	4.5-14.5	3-13	3-13	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	3-13	3-13	4.5-14.5
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON- RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.23 J	< 1.0	< 1.0	0.21 J	0.30 J	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1.0	2.0	< 1.0	< 1.0	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.54 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
All units are measured in micrograms per liter (µg/l).
All results are compared to the EGLE Part 201 Generic Cleanup Criteria, December 31, 2013.
Bolded Result exceeds residential Drinking Water criteria
< Result not detected above reporting limit.

Abbreviations:
EGLE Michigan Department of Environment, Great Lakes, and Energy
ft. bgs feet below ground surface
J estimated result

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**Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
3Q 2019
Ford Livonia Transmission Plant**

				Location: Date:	MW-102 9/18/2019	MW-102S 9/18/2019	MW-103S 9/20/2019	MW-104S 9/17/2019	MW-105S 9/16/2019	MW-106S 9/23/2019	MW-107S 9/24/2019	MW-108S 9/19/2019	MW-109S 9/23/2019	MW-110S 9/17/2019	MW-111S 9/19/2019	MW-112S 9/17/2019	MW-115S 9/18/2019	MW-116S 9/16/2019	MW-117S 9/18/2019
				Screen Interval (ft. bgs):	10-15	2.5-12.5	2-7	9-14	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	8-13	8-13	2.5-12.5	2.5-12.5	3-13	2.5-12.5
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON- RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350		1.0 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.27 J
SW8260B	Vinyl chloride	1.0	2.0		1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.1

				Location: Date:	MW-118S 9/18/2019	MW-119S 9/16/2019	MW-121S 9/19/2019	MW-123S 9/16/2019	MW-125 9/25/2019	MW-125S 9/25/2019	MW-126S 9/17/2019	MW-127S 9/18/2019	MW-128S 9/20/2019	MW-129 9/24/2019	MW-129S 9/23/2019	MW-130S 9/20/2019	MW-131S 9/16/2019	MW-132S 9/16/2019	MW-133S 9/17/2019
				Screen Interval (ft. bgs):	2.5-12.5	2.5-12.5	2.5-12.5	2.5-12.5	7-12	2-7	3-13	3-13	4-14	10-15	2-7	3-13	2.5-12.5	2.5-12.5	4-9
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON- RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350		< 2.0	< 2.0	< 2.0	1.1 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.3 J	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70		< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1.0	2.0		0.50 J	< 1.0	< 1.0	3.9	< 1.0	< 1.0	< 1.0	2.7	< 1.0	< 1.0	< 1.0	< 1.0	1.2	0.87 J	< 1.0

				Location: Date:	MW-134S 9/17/2019	MW-135S 9/16/2019	MW-136S 9/18/2019	MW-137S 9/23/2019	MW-138S 9/23/2019	MW-139S 9/20/2019	MW-140S 9/18/2019	MW-141S 9/18/2019	MW-142S 9/16/2019	MW-143S 9/19/2019	MW-144S 9/19/2019	MW-145S 9/19/2019	MW-146S 9/17/2019	MW-147S 9/19/2019	MW-148S 9/20/2019
				Screen Interval (ft. bgs):	5-10	5-10	2-7	2-7	2-7	2-7	2-7	3-8	2.5-7.5	5.5-10.5	7-12	6-11	6-11	2-7	2-7
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON- RES DW																
SW8468260BBYSIM	1,4-Dioxane	7.2	350		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.1 J	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1.0	2.0		< 1.0	< 1.0	0.96 J	1.1	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.20 J	0.82 J	2.2

Notes:
All units are measured in micrograms per liter (µg/l).
All results are compared to the EGLE Part 201 Generic Cleanup Criteria, December 31, 2013.
Bolded Result exceeds residential Drinking Water criteria
< Result not detected above reporting limit.

Abbreviations:
EGLE Michigan Department of Environment, Great Lakes, and Energy
ft. bgs feet below ground surface
J estimated result

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

**Appendix A – Summary of Off-Site Shallow Groundwater Sampling Results
3Q 2019
Ford Livonia Transmission Plant**

				Location: Date:	MW-149S 9/18/2019	MW-150S 9/19/2019	MW-152S 9/20/2019	MW-153S 9/20/2019	MW-154S 9/20/2019	MW-155S 9/17/2019	MW-156S 9/19/2019	MW-157S 9/19/2019	MW-158S 9/23/2019	MW-159S 9/23/2019	MW-160S 9/18/2019	MW-161S 9/24/2019	MW-162S 9/18/2019	MW-163S 9/18/2019	MW-164S 9/19/2019	MW-165S 9/19/2019	
				Screen Interval (ft. bgs):	2-7	2-7	2.5-7.5	2-7	2-7	2-7	3-8	2.5-7.5	2.5-7.5	4-9	4-9	2.5-7.5	3-8	2-7	3-8	2-7	
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON- RES DW																		
SW8468260BBYSIM	1,4-Dioxane	7.2	350	0.96 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Vinyl chloride	1.0	2.0	1.9	0.35 J	0.34 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

				Location: Date:	MW-166S 9/17/2019	MW-167S 9/20/2019	MW-168S 9/16/2019	MW-169S 9/17/2019	MW-170S 9/24/2019	MW-171S 9/16/2019	MW-172S 9/20/2019	MW-173S 9/20/2019	MW-174S 9/24/2019	MW-175S 9/20/2019	MW-176S 9/23/2019	MW-177S 9/19/2019	MW-178S 9/18/2019	MW-179S 9/17/2019	MW-180SR 9/17/2019	MW-181S 9/17/2019	
				Screen Interval (ft. bgs):	6-11	5-10	2-7	2-7	4.5-9.5	2-7	4.5-9.5	5.5-10.5	5.5-10.5	6-11	5-10	4-9	4.5-9.5	6-11	6.5-11.5	3.5-8.5	
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON- RES DW																		
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.2 J	< 2.0	
SW8260B	1,1-Dichloroethene	7.0	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	Tetrachloroethene	5.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.16 J	< 1.0	
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	Trichloroethene	1.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
SW8260B	Vinyl chloride	1.0	2.0	< 1.0	< 1.0	0.38 J	0.28 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	

				Location: Date:	MW-182S 9/18/2019	MW-183S 9/17/2019	MW-184S 9/24/2019	MW-185S 9/23/2019	MW-186S 9/24/2019	MW-187 9/19/2019	MW-187S 9/19/2019	MW-188S 9/19/2019	MW-189 9/18/2019	MW-189S 9/18/2019	MW-190 9/19/2019	MW-190S 9/19/2019	MW-191S 9/17/2019	MW-192S 9/20/2019	MW-193S 9/16/2019	
				Screen Interval (ft. bgs):	4-9	8-13	4.5-9.5	6-11	2.5-7.5	8-13	3-8	3-8	10-15	4.5-9.5	9-14	2.5-7.5	2.5-7.5	2.5-7.5	3-8	
Analytic Method	Chemical Name	Ford LTP Offsite Res DW	MI GW (EGLE2018) NON- RES DW																	
SW8468260BBYSIM	1,4-Dioxane	7.2	350	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
SW8260B	1,1-Dichloroethene	7.0	7.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	cis-1,2-Dichloroethene	70	70	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5	1.1	5.2	0.34 J	< 1.0	< 1.0
SW8260B	Tetrachloroethene	5.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	trans-1,2-Dichloroethene	100	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SW8260B	Trichloroethene	1.0	5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.59 J	< 1.0	< 1.0
SW8260B	Vinyl chloride	1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Notes:
All units are measured in micrograms per liter (µg/l).
All results are compared to the EGLE Part 201 Generic Cleanup Criteria, December 31, 2013.

Bolded Result exceeds residential Drinking Water criteria
< Result not detected above reporting limit.

Abbreviations:
EGLE Michigan Department of Environment, Great Lakes, and Energy
ft. bgs feet below ground surface
J estimated result

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APPENDIX C

Vapor Intrusion Analytical Results



Table 1 Offsite Residential Data Surrounding No Access Properties
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

COC				1,1-Dichloroethene	1,4-Dioxane	cis-1,2-Dichloroethene	Tetra chloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
Unit				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Volatilization to Indoor Air RIAs (Indoor/Ambient Air) - Provided 7/22/2017 in CD (Residential Indoor Air) (ug/m3):				210	5.1	8.3	41	270	2.0	1.6
Residential Volatilization to Indoor Air Criteria - house with a basement. Provided by EGLE 10/30/2018 (Residential Soil Gas) (ug/m3):				7000	170	280	1400	2800	67	54
Location	Sample Date	Sample Type	Matrix							
11680 Boston Post Rd	11/6/2018	AA-11680 BOSTON POST-01_110518	AA	< 0.64	< 0.58	< 0.64	< 1.1	< 0.64	< 0.86	< 0.41
11680 Boston Post Rd	3/15/2019	AA-11680BOSTONPOST-01_031419	AA	< 0.71	< 0.65	< 0.71	< 1.2	< 0.71	< 0.97	< 0.46
11680 Boston Post Rd	3/15/2019	DUP-11680BOSTONPOST-01_031419	AA	0.15 J	< 0.64	< 0.70	0.25 J	< 0.70	0.75 J	< 0.46
11680 Boston Post Rd	6/19/2019	AA-11680BOSTONPOST-01_061819	AA	< 0.69	0.16 J	< 0.69	< 1.2	< 0.69	< 0.94	< 0.44
11680 Boston Post Rd	11/6/2018	IACS-11680 BOSTON POST-02_110518	AI	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
11680 Boston Post Rd	11/6/2018	IAF-11680 BOSTON POST-01_110518	AI	< 0.71	< 0.64	< 0.71	< 1.2	< 0.71	< 0.96	< 0.46
11680 Boston Post Rd	11/6/2018	IAG-11680 BOSTON POST-03_110518	AI	< 0.78	< 0.71	< 0.78	1.2 J	< 0.78	< 1.0	< 0.50
11680 Boston Post Rd	3/15/2019	IAG-11680BOSTONPOST-03_031419	AI	< 0.68	< 0.62	< 0.68	0.47 J	< 0.68	< 0.92	< 0.44
11680 Boston Post Rd	3/15/2019	DUP-11680BOSTONPOST-02_031419	AI	< 0.67	< 0.61	< 0.67	0.48 J	< 0.67	< 0.91	< 0.43
11680 Boston Post Rd	3/15/2019	IAF-11680BOSTONPOST-01_031419	AI	< 0.64	< 0.58	< 0.64	0.17 J	< 0.64	< 0.87	< 0.41
11680 Boston Post Rd	6/19/2019	IAF-11680BOSTONPOST-01_061819	AI	< 0.66	0.24 J	< 0.66	< 1.1	< 0.66	< 0.90	< 0.43
11680 Boston Post Rd	6/19/2019	DUP-11680BOSTONPOST-01_061819	AI	< 0.70	0.16 J	< 0.70	< 1.2	< 0.70	< 0.94	< 0.45
11680 Boston Post Rd	6/19/2019	IAG-11680BOSTONPOST-03_061819	AI	< 1.2	< 1.1	< 1.2	21	< 1.2	0.44 J	< 0.77
11680 Boston Post Rd	11/6/2018	SSMP-11680 BOSTON POST-01_110618	GS	< 4.7	< 17	< 4.7	130	< 4.7	< 6.4	< 3.0
11680 Boston Post Rd	3/15/2019	SSMP-11680BOSTONPOST-01_031519	GS	< 4.9	< 18	< 4.9	200	< 4.9	< 6.7	< 3.2
11680 Boston Post Rd	6/19/2019	SSMP-11680BOSTONPOST-01_061919	GS	< 4.8	< 18	< 4.8	710	< 4.8	< 6.5	< 3.1
11701 Boston Post Rd	10/26/2018	AA-11701BOSTONPOST-01_102518	AA	< 0.64	< 0.58	< 0.64	0.22 J	< 0.64	< 0.86	< 0.41
11701 Boston Post Rd	3/27/2019	AA-11701BOSTONPOST-01_032619	AA	< 0.67	0.86	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
11701 Boston Post Rd	3/27/2019	DUP-11701BOSTONPOST-02_032619	AA	< 0.74	< 0.67	< 0.74	< 1.3	< 0.74	< 1.0	< 0.48
11701 Boston Post Rd	6/27/2019	AA-11701BOSTONPOST-01_062619	AA	< 0.72	< 0.66	< 0.72	< 1.2	< 0.72	< 0.98	< 0.47
11701 Boston Post Rd	10/26/2018	IACS-11701BOSTONPOST-04_102518	AI	< 0.67	< 0.61	< 0.67	< 1.2	< 0.67	< 0.91	< 0.43
11701 Boston Post Rd	10/26/2018	IAF-11701BOSTONPOST-01_102518	AI	< 0.71	< 0.65	< 0.71	0.21 J	< 0.71	< 0.97	< 0.46
11701 Boston Post Rd	10/26/2018	IAF-11701BOSTONPOST-02_102518	AI	< 0.66	< 0.60	< 0.66	0.22 J	< 0.66	< 0.89	< 0.42
11701 Boston Post Rd	10/26/2018	IAG-11701BOSTONPOST-03_102518	AI	< 0.68	< 0.62	< 0.68	0.21 J	< 0.68	< 0.93	< 0.44
11701 Boston Post Rd	3/27/2019	IAF-11701BOSTONPOST-02_032619	AI	< 0.69	0.24 J	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
11701 Boston Post Rd	4/9/2019	IAG-11701BOSTONPOST-03_040819	AI	< 0.66	< 0.60	< 0.66	0.088 J	0.97	0.43 J	< 0.42
11701 Boston Post Rd	4/9/2019	DUP-11701BOSTONPOST-01_040819	AI	< 0.64	< 0.58	< 0.64	0.097 J	0.23 J	0.14 J	< 0.41
11701 Boston Post Rd	4/9/2019	IAF-11701BOSTONPOST-01_040819	AI	< 0.70	< 0.63	< 0.70	0.12 J	0.44 J	0.20 J	< 0.45
11701 Boston Post Rd	4/9/2019	DUP-11701BOSTONPOST-02_040819	AI	< 0.64	< 0.58	< 0.64	0.10 J	0.45 J	0.18 J	< 0.41
11701 Boston Post Rd	6/27/2019	IAF-11701BOSTONPOST-01_062619	AI	< 0.72	< 0.66	< 0.72	< 1.2	< 0.72	< 0.98	< 0.47
11701 Boston Post Rd	6/27/2019	IAF-11701BOSTONPOST-02_062619	AI	< 0.72	0.23 J	< 0.72	< 1.2	< 0.72	< 0.98	< 0.47
11701 Boston Post Rd	6/27/2019	IAG-11701BOSTONPOST-03_062619	AI	< 0.80	< 0.72	< 0.80	< 1.4	< 0.80	< 1.1	< 0.51
11701 Boston Post Rd	10/26/2018	SSMP-11701BOSTONPOST-01_102618	GS	< 4.8	< 17	< 4.8	< 8.1	< 4.8	< 6.4	< 3.1
11701 Boston Post Rd	10/26/2018	SSMP-11701BOSTONPOST-02_102618	GS	< 4.8	< 18	< 4.8	< 8.3	< 4.8	< 6.6	< 3.1
11701 Boston Post Rd	3/27/2019	SSMP-11701BOSTONPOST-01_032719	GS	< 5.1	< 18	< 5.1	< 8.7	< 5.1	< 6.9	< 3.3
11701 Boston Post Rd	3/27/2019	SSMP-11701BOSTONPOST-02_032719	GS	< 5.1	< 18	< 5.1	< 8.7	< 5.1	< 6.9	< 3.3
11701 Boston Post Rd	6/27/2019	SSMP-11701BOSTONPOST-01_062719	GS	< 4.9	< 18	< 4.9	< 8.4	< 4.9	< 6.7	< 3.2
11701 Boston Post Rd	6/27/2019	SSMP-11701BOSTONPOST-02_062719	GS	< 5.1	< 18	< 5.1	< 8.7	< 5.1	< 6.9	< 3.3
11701 Boston Post Rd	10/16/2019	AA-11701BOSTONPOST-01_101619	AA	< 0.67	< 0.60	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
11701 Boston Post Rd	10/16/2019	DUP-11701BOSTONPOST-04_101619	AA	< 0.67	< 0.60	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
11701 Boston Post Rd	10/16/2019	IAF-11701BOSTONPOST-01_101619	AI	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
11701 Boston Post Rd	10/16/2019	DUP-11701BOSTONPOST-01_101619	AI	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
11701 Boston Post Rd	10/16/2019	IAG-11701BOSTONPOST-03_101619	AI	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
11701 Boston Post Rd	10/16/2019	DUP-11701BOSTONPOST-03_101619	AI	< 0.71	< 0.64	< 0.71	< 1.2	< 0.71	< 0.96	< 0.46
11701 Boston Post Rd	10/16/2019	IAF-11701BOSTONPOST-02_101619	AI	< 0.71	< 0.64	< 0.71	< 1.2	< 0.71	< 0.96	< 0.46
11701 Boston Post Rd	10/16/2019	SSMP-11701BOSTONPOST-01_101619	GS	< 5.4	< 20	< 5.4	< 9.2	< 5.4	< 7.3	< 3.5
11701 Boston Post Rd	10/16/2019	SSMP-11701BOSTONPOST-02_101619	GS	< 4.8	< 17	< 4.8	< 8.2	< 4.8	< 6.5	< 3.1
11721 Boston Post Rd	10/24/2018	AA-11721BOSTONPOST-01_102318	AA	< 0.63	< 0.57	< 0.63	< 1.1	< 0.63	< 0.85	< 0.40
11721 Boston Post Rd	10/24/2018	IACS-11721BOSTONPOST-03_102318	AI	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65	< 0.88	< 0.42
11721 Boston Post Rd	10/24/2018	IAF-11721BOSTONPOST-02_102318	AI	R	R	R	R	R	R	R
11721 Boston Post Rd	10/24/2018	IAG-11721BOSTONPOST-01_102318	AI	< 0.64	< 0.58	< 0.64	< 1.1	< 0.64	< 0.86	< 0.41
11721 Boston Post Rd	10/24/2018	SSMP-11721BOSTONPOST-01_102418	GS	< 4.3	< 16	< 4.3	2.4 J	< 4.3	< 5.8	< 2.8
11721 Boston Post Rd	3/13/2019	AA-11721BOSTONPOST-01_031219	AA	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
11721 Boston Post Rd	3/13/2019	DUP-11721BOSTONPOST-01_031219	AA	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
11721 Boston Post Rd	3/13/2019	IAG-11721BOSTONPOST-01_031219	AI	< 0.67	< 0.60	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
11721 Boston Post Rd	3/13/2019	DUP-11721BOSTONPOST-02_031219	AI	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65	< 0.88	< 0.42
11721 Boston Post Rd	3/13/2019	IAF-11721BOSTONPOST-02_031219	AI	R	R	R	R	R	R	R
11721 Boston Post Rd	3/13/2019	SSMP-11721BOSTONPOST-01_031319	GS	< 5.1	< 18	< 5.1	7.7 J	< 5.1	< 6.9	< 3.3
11721 Boston Post Rd	5/2/2019	AA-11721BOSTONPOST-01_050119	AA	< 0.72	< 0.66	< 0.72	0.12 J	< 0.72	< 0.98	< 0.46
11721 Boston Post Rd	5/2/2019	DUP-11721BOSTONPOST-03_050119	AA	< 0.66	0.50 J	< 0.66	0.13 J	< 0.66	< 0.89	< 0.42
11721 Boston Post Rd	5/2/2019	IAG-11721BOSTONPOST-01_050119	AI	< 0.63	0.24 J	< 0.63	0.10 J	< 0.63	< 0.85	< 0.40
11721 Boston Post Rd	5/2/2019	DUP-11721BOSTONPOST-02_050119	AI	< 0.61	< 0.56	< 0.61	0.11 J	< 0.61	< 0.83	< 0.40
11721 Boston Post Rd	5/2/2019	IAF-11721BOSTONPOST-02_050119	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.93	< 0.44
11721 Boston Post Rd	5/2/2019	DUP-11721BOSTONPOST-01_050119	AI	< 0.65	< 0.59	< 0.65	0.12 J	< 0.65	< 0.88	< 0.42
11721 Boston Post Rd	5/2/2019	SSMP-11721BOSTONPOST-01_050219	GS	< 5.2	< 19	< 5.2	6.0 J	< 5.2	< 7.1	< 3.4
11721 Boston Post Rd	6/12/2019	AA-11721BOSTONPOST-01_061119	AA	< 0.78	0.73	< 0.78	< 1.3	< 0.78	< 1.0	< 0.50
11721 Boston Post Rd	6/12/2019	IAF-11721BOSTONPOST-02_061119	AI	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
11721 Boston Post Rd	6/12/2019	DUP-11721BOSTONPOST-02_061119	AI	< 0.72	< 0.66	< 0.72	< 1.2	< 0.72	< 0.98	< 0.47
11721 Boston Post Rd	6/12/2019	IAG-11721BOSTONPOST-01_061119	AI	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
11721 Boston Post Rd	6/12/2019	SSMP-11721BOSTONPOST-01_061219	GS	< 5.0	< 18	< 5.0	14	< 5.0	< 6.8	< 3.2
11721 Boston Post Rd	6/12/2019	DUP-11721BOSTONPOST-01_061219	GS	< 5.1	< 18	< 5.1	15	< 5.1	1.2 J	< 3.3
11721 Boston Post Rd	10/9/2019	AA-11721BOSTONPOST-01_100919	AA	< 0.63	< 0.57	< 0.63	< 1.1	< 0.63	< 0.85	< 0.41
11721 Boston Post Rd	10/9/2019	IAF-11721BOSTONPOST-02_100919	AI	< 0.67	< 0.60	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
11721 Boston Post Rd	10/9/2019	IAG-11721BOSTONPOST-01_100919	AI	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65	< 0.88	< 0.42
11721 Boston Post Rd	10/9/2019	SSMP-11721BOSTONPOST-01_100919	GS	< 4.9	< 18	< 4.9	9.9	< 4.9	< 6.7	< 3.2
11721 Boston Post Rd	10/9/2019	DUP-11721BOSTONPOST-01_100919	GS	< 4.9	< 18	< 4.9	11	< 4.9	< 6.6	< 3.2
11775 Boston Post Rd	10/30/2018	SUMP1-11775 BOSTON POST_103018	WG	< 1.0	1.0 J	0.64 J	< 1.0	< 1.0	< 1.0	< 1.0
11775 Boston Post Rd	11/2/2018	AA-11775BOSTONPOST-01_110118	AA	< 0.62	< 0.56	< 0.62	< 1.0	< 0.62	< 0.84	< 0.40
11775 Boston Post Rd	11/2/2018	IAB-11775BOSTONPOST-06_110118	AI	< 0.64	< 0.58	< 0.64	0.65 J	0.11 J	0.22 J	< 0.41
11775 Boston Post Rd	11/2/2018	IACS-11775BOSTONPOST-04_110118	AI	R	R	R	R	R	R	R
11775 Boston Post Rd	11/2/2018	IACS-11775BOSTONPOST-05_110118	AI	< 0.60	< 0.54	< 0.60	0.74 J	0.19 J	0.31 J	< 0.38
11775 Boston Post Rd	11/2/2018	IAF-11775BOSTONPOST-01_110118	AI	< 0.71	< 0.64	< 0.71				

Table 1 Offsite Residential Data Surrounding No Access Properties
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

COC				1,1-Dichloroethene	1,4-Dioxane	cis-1,2-Dichloroethene	Tetra chloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
Unit				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Volatilization to Indoor Air RIAs (Indoor/Ambient Air) - Provided 7/22/2017 in CD (Residential Indoor Air) (ug/m3):				210	5.1	8.3	41	270	2.0	1.6
Residential Volatilization to Indoor Air Criteria - house with a basement. Provided by EGLE 10/30/2018 (Residential Soil Gas) (ug/m3):				7000	170	280	1400	2800	67	54
Location	Sample Date	Sample Type	Matrix							
11775 Boston Post Rd	3/22/2019	SSMP-11775BOSTONPOST-01_032219	GS	< 4.9	< 18	< 4.9	< 8.4	< 4.9	< 6.6	< 3.2
11775 Boston Post Rd	4/2/2019	IAF-11775BOSTONPOST-02_040119	AI	< 0.63	< 0.58	< 0.63	0.70 J	< 0.63	< 0.86	< 0.41
11775 Boston Post Rd	7/11/2019	AA-11775BOSTONPOST-01_071119	AA	< 0.73	0.21 J	< 0.73	< 1.2	< 0.73	< 0.99	< 0.47
11775 Boston Post Rd	7/11/2019	IAB-11775BOSTONPOST-06_071119	AI	< 0.76	0.59 J	< 0.76	1.1 J	< 0.76	< 1.0	< 0.49
11775 Boston Post Rd	7/11/2019	IAF-11775BOSTONPOST-01_071119	AI	< 0.67	0.17 J	< 0.67	1.2	< 0.67	< 0.90	< 0.43
11775 Boston Post Rd	7/11/2019	IAF-11775BOSTONPOST-02_071119	AI	< 0.68	0.64	< 0.68	1.1 J	< 0.68	< 0.92	< 0.44
11775 Boston Post Rd	7/11/2019	SSMP-11775BOSTONPOST-01_071119	GS	< 5.1	< 18	< 5.1	2.3 J	< 5.1	< 6.9	< 3.3
11775 Boston Post Rd	7/11/2019	SUMP1-11775BOSTONPOST_071119	WG	< 1.0	1.2 J	1.1	< 1.0	< 1.0	< 1.0	0.50 J
11775 Boston Post Rd	7/12/2019	IAG-11775BOSTONPOST-03_071219	AI	< 0.68	< 0.62	< 0.68	9.5	< 0.68	< 0.92	< 0.44
11775 Boston Post Rd	10/25/2019	AA-11775BOSTONPOST-01_102519	AA	< 0.62	< 0.56	< 0.62	< 1.0	0.13 J	< 0.84	< 0.40
11775 Boston Post Rd	10/25/2019	IAB-11775BOSTONPOST-06_102519	AI	< 0.66	< 0.60	< 0.66	1.2	0.13 J	0.16 J	< 0.43
11775 Boston Post Rd	10/25/2019	IAF-11775BOSTONPOST-01_102519	AI	< 0.67	< 0.61	< 0.67	2.4	< 0.67	0.12 J	< 0.43
11775 Boston Post Rd	10/25/2019	IAF-11775BOSTONPOST-02_102519	AI	< 0.68	< 0.62	< 0.68	2.4	0.12 J	0.14 J	< 0.44
11775 Boston Post Rd	10/25/2019	IAG-11775BOSTONPOST-03_102519	AI	< 0.58	< 0.53	< 0.58	5.1	0.10 J	< 0.78	< 0.37
11775 Boston Post Rd	10/25/2019	SSMP-11775BOSTONPOST-01_102519	GS	< 5.0	< 18	< 5.0	1.3 J	< 5.0	< 6.8	< 3.2
11845 Boston Post Rd	11/1/2018	AA-11845BOSTONPOST-01_103118	AA	< 0.64	< 0.58	< 0.64	0.16 J	< 0.64	< 0.86	< 0.41
11845 Boston Post Rd	11/1/2018	IACS-11845BOSTONPOST-04_103118	AI	< 0.67	< 0.60	< 0.67	0.34 J	< 0.67	< 0.90	< 0.43
11845 Boston Post Rd	11/1/2018	IAF-11845BOSTONPOST-01_103118	AI	< 0.68	< 0.62	< 0.68	1.1 J	0.099 J	< 0.92	< 0.44
11845 Boston Post Rd	11/1/2018	IAF-11845BOSTONPOST-02_103118	AI	< 0.67	< 0.60	< 0.67	0.97 J	< 0.67	< 0.90	< 0.43
11845 Boston Post Rd	11/1/2018	IAG-11845BOSTONPOST-03_103118	AI	< 0.67	< 0.60	< 0.67	0.40 J	< 0.67	< 0.90	< 0.43
11845 Boston Post Rd	11/1/2018	SSMP-11845BOSTONPOST-01_110118	GS	< 4.8	< 17	< 4.8	1.9 J	< 4.8	< 6.4	< 3.1
11845 Boston Post Rd	11/1/2018	SSMP-11845BOSTONPOST-02_110118	GS	< 4.6	< 17	< 4.6	16	< 4.6	< 6.3	< 3.0
11845 Boston Post Rd	4/10/2019	AA-11845BOSTONPOST-01_040919	AA	< 0.66	< 0.60	< 0.66	< 1.1	< 0.66	< 0.90	< 0.43
11845 Boston Post Rd	4/10/2019	DUP-11845BOSTONPOST-01_040919	AA	< 0.61	< 0.55	< 0.61	< 1.0	< 0.61	< 0.82	< 0.39
11845 Boston Post Rd	4/10/2019	IAF-11845BOSTONPOST-02_040919	AI	< 0.67	< 0.61	< 0.67	0.80 J	5.4 J	3.6 J	< 0.43
11845 Boston Post Rd	4/10/2019	DUP-11845BOSTONPOST-02_040919	AI	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65 J	< 0.88 J	< 0.42
11845 Boston Post Rd	4/10/2019	IAG-11845BOSTONPOST-03_040919	AI	< 0.67	< 0.60	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
11845 Boston Post Rd	4/10/2019	SSMP-11845BOSTONPOST-01_041019	GS	< 4.8	< 17	< 4.8	1.9 J	< 4.8	1.3 J	< 3.1
11845 Boston Post Rd	4/25/2019	AA-11845BOSTONPOST-01_042419	AA	< 0.67	< 0.61	< 0.67	0.13 J	< 0.67	< 0.91	< 0.43
11845 Boston Post Rd	4/25/2019	DUP-11845BOSTONPOST-01_042419	AA	< 0.67	0.31 J	< 0.67	0.13 J	< 0.67	< 0.91	< 0.43
11845 Boston Post Rd	4/25/2019	IAF-11845BOSTONPOST-01_042419	AI	< 0.67	< 0.61	< 0.67	0.58 J	< 0.67	< 0.91	< 0.43
11845 Boston Post Rd	4/25/2019	DUP-11845BOSTONPOST-02_042419	AI	< 0.69	< 0.63	< 0.69	0.61 J	< 0.69	< 0.94	< 0.45
11845 Boston Post Rd	4/25/2019	SSMP-11845BOSTONPOST-02_042519	GS	< 4.7	< 17	< 4.7	15	< 4.7	< 6.4	< 3.0
11845 Boston Post Rd	8/7/2019	AA-11845BOSTONPOST-01_080719	AA	< 0.71	< 0.65	< 0.71	< 1.2	< 0.71	< 0.97	< 0.46
11845 Boston Post Rd	8/7/2019	IAF-11845BOSTONPOST-01_080719	AI	< 0.75	< 0.68	< 0.75	1.7	< 0.75	< 1.0	< 0.48
11845 Boston Post Rd	8/7/2019	DUP-11845BOSTONPOST-01_080719	AI	< 0.70	< 0.63	< 0.70	< 1.2	< 0.70	< 0.94	< 0.45
11845 Boston Post Rd	8/7/2019	IAF-11845BOSTONPOST-02_080719	AI	< 0.64	< 0.58	< 0.64	1.9	< 0.64	< 0.86	< 0.41
11845 Boston Post Rd	8/7/2019	IAG-11845BOSTONPOST-03_080719	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.93	< 0.44
11845 Boston Post Rd	8/7/2019	SSMP-11845BOSTONPOST-01_080719	GS	< 5.0	< 18	< 5.0	4.6 J	< 5.0	< 6.8	< 3.2
11845 Boston Post Rd	8/7/2019	SSMP-11845BOSTONPOST-02_080719	GS	< 5.1	< 18	< 5.1	33	< 5.1	< 6.9	< 3.3
11865 Boston Post Rd	10/25/2018	AA-11865BOSTONPOST-01_102418	AA	< 0.63	< 0.57	< 0.63	0.31 J	0.15 J	< 0.85	< 0.41
11865 Boston Post Rd	10/25/2018	IACS-11865BOSTONPOST-02_102418	AI	< 0.72	< 0.66	< 0.72	< 1.2	0.13 J	< 0.98	< 0.46
11865 Boston Post Rd	10/25/2018	IAF-11865BOSTONPOST-01_102418	AI	< 0.69	< 0.63	< 0.69	0.23 J	0.14 J	< 0.94	< 0.44
11865 Boston Post Rd	10/25/2018	IAG-11865BOSTONPOST-03_102418	AI	< 0.64	< 0.58	< 0.64	0.23 J	< 0.64	< 0.87	< 0.41
11865 Boston Post Rd	10/25/2018	SSMP-11865BOSTONPOST-01_102518	GS	< 4.4	< 16	< 4.4	< 7.5	< 4.4	< 5.9	< 2.8
34766 Standish St	10/31/2018	IACS-34766STANDISH-01_103018	AI	R	R	R	R	R	R	R
34766 Standish St	10/31/2018	IAF-34766STANDISH-03_103018	AI	R	R	R	R	R	R	R
34766 Standish St	10/31/2018	IAG-34766STANDISH-02_103018	AI	R	R	R	R	R	R	R
34766 Standish St	3/22/2019	IAG-34766STANDISH-02_032119	AI	< 0.67	0.17 J	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
34766 Standish St	3/22/2019	DUP-34766STANDISH-01_032119	AI	< 0.63	< 0.57	< 0.63	< 1.1	< 0.63	< 0.85	< 0.40
34766 Standish St	3/22/2019	IAF-34766STANDISH-03_032119	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34766 Standish St	7/11/2019	IAF-34766STANDISH-03_071119	AI	< 0.71	0.12 J	< 0.71	< 1.2	< 0.71	< 0.96	< 0.46
34766 Standish St	7/11/2019	IAG-34766STANDISH-02_071119	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34766 Standish St	10/31/2018	SSMP-34766STANDISH-01_103118	GS	R	R	R	R	R	R	R
34766 Standish St	3/22/2019	SSMP-34766STANDISH-01_032219	GS	< 5.0	< 18	< 5.0	< 8.5	< 5.0	< 6.8	< 3.2
34766 Standish St	7/11/2019	SSMP-34766STANDISH-01_071119	GS	< 5.1	< 18	< 5.1	< 8.8	< 5.1	< 6.9	< 3.3
34850 Standish St	11/15/2018	AA-34850STANDISH-01_111418	AA	< 0.65	0.11 J	< 0.65	< 1.1	0.16 J	< 0.88	< 0.42
34850 Standish St	4/11/2019	AA-34850STANDISH-01_041019	AA	< 0.64	< 0.58	< 0.64	< 1.1	< 0.64	< 0.87	< 0.41
34850 Standish St	4/11/2019	DUP-34850STANDISH-02_041019	AA	< 0.59	< 0.54	< 0.59	< 1.0	< 0.59	< 0.81	< 0.38
34850 Standish St	11/15/2018	IAG-34850STANDISH-01_111418	AI	< 0.65	< 0.59	< 0.65	0.27 J	< 0.65	1.2	< 0.42
34850 Standish St	11/15/2018	DUP-01_111418_A	AI	< 0.63	0.23 J	< 0.63	0.27 J	< 0.63	1.2	< 0.40
34850 Standish St	11/15/2018	IAF-34850STANDISH-02_111418	AI	< 0.64	< 0.58	< 0.64	0.18 J	< 0.64	< 0.86	< 0.41
34850 Standish St	4/11/2019	IAG-34850STANDISH-01_041019	AI	< 0.63	< 0.57	< 0.63	< 1.1	< 0.63	1.2	< 0.41
34850 Standish St	4/11/2019	DUP-34850STANDISH-01_041019	AI	< 0.61	< 0.55	< 0.61	< 1.0	< 0.61	1.1	< 0.39
34850 Standish St	5/1/2019	IAF-34850STANDISH-02_043019	AI	< 0.67	0.43 J	< 0.67	< 1.1	< 0.67	< 0.91	< 0.43
34850 Standish St	11/15/2018	SSMP-34850STANDISH-01_111518	GS	< 4.4	< 16	< 4.4	< 7.5	12	55	< 2.8
34850 Standish St	4/11/2019	SSMP-34850STANDISH-01_041119	GS	< 4.9	< 18	< 4.9	2.6 J	< 4.9	< 6.6	< 3.1
34900 Standish St	1/16/2019	AA-34900STANDISH-01_011519	AA	< 0.60	< 0.54	< 0.60	< 1.0	< 0.60	< 0.81	< 0.38
34900 Standish St	1/16/2019	IAF-34900STANDISH-01_011519	AI	< 0.64	< 0.58	< 0.64	< 1.1	< 0.64	< 0.87	< 0.41
34900 Standish St	1/16/2019	IAF-34900STANDISH-02_011519	AI	< 0.66	< 0.60	< 0.66	< 1.1	< 0.66	< 0.90	< 0.43
34900 Standish St	1/16/2019	IAG-34900STANDISH-01_011519	AI	< 0.61	< 0.55	< 0.61	< 1.0	< 0.61	< 0.82	< 0.39
34900 Standish St	1/16/2019	SSMP-34900STANDISH-01_011619	GS	< 4.4	< 16	< 4.4	< 7.5	< 4.4	< 5.9	< 2.8
34900 Standish St	6/19/2019	IAF-34900STANDISH-02_061819	AI	< 0.67	< 0.61	< 0.67	1.4	< 0.67	< 0.91	< 0.43
34900 Standish St	6/19/2019	DUP-34900STANDISH-01_061819	AI	< 0.69	< 0.63	< 0.69	1.3	< 0.69	< 0.94	< 0.45
34900 Standish St	6/19/2019	IAF-34900STANDISH-01_061819	AI	< 0.77	< 0.70	< 0.77	1.3	< 0.77	< 1.0	< 0.50
34900 Standish St	6/19/2019	IAG-34900STANDISH-01_061819	AI	< 0.67	< 0.61	< 0.67	< 1.1	< 0.67	< 0.91	< 0.43
34900 Standish St	6/19/2019	SSMP-34900STANDISH-01_061919	GS	< 4.7	< 17	< 4.7	< 8.1	< 4.7	< 6.4	< 3.0
34900 Standish St	6/19/2019	AA-34900STANDISH-01_100919	AA	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.44
34900 Standish St	10/9/2019	IAF-34900STANDISH-01_100919	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34900 Standish St	10/9/2019	IAF-34900STANDISH-02_100919	AI	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65	< 0.89	< 0.42
34900 Standish St	10/9/2019	IAG-34900STANDISH-01_100919	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.93	< 0.44
34900 Standish St	10/9/2019	SSMP-34900STANDISH-01_100919	GS	< 4.5	< 16	< 4.5	< 7.7	< 4.5	< 6.1	< 2.9
34934 Standish St	10/24/2018	AA-34934STANDISH-01_102318	AA	< 0.60	< 0.55	< 0.60	< 1.0			

Table 1 Offsite Residential Data Surrounding No Access Properties
Ford Livonia Transmission Plant
36200 Plymouth Road
Livonia, Michigan

COC				1,1-Dichloroethene	1,4-Dioxane	cis-1,2-Dichloroethene	Tetra chloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
Unit				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Volatilization to Indoor Air RIAs (Indoor/Ambient Air) - Provided 7/22/2017 in CD (Residential Indoor Air) (ug/m3):				210	5.1	8.3	41	270	2.0	1.6
Residential Volatilization to Indoor Air Criteria - house with a basement. Provided by EGLE 10/30/2018 (Residential Soil Gas) (ug/m3):				7000	170	280	1400	2800	67	54
Location	Sample Date	Sample Type	Matrix							
34934 Standish St	6/28/2019	AA-34934STANDISH-01_062719	AA	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
34934 Standish St	6/28/2019	IAF-34934STANDISH-02_062719	AI	< 0.64	< 0.58	< 0.64	< 1.1	< 0.64	< 0.86	< 0.41
34934 Standish St	6/28/2019	DUP-34934STANDISH-01_062719	AI	< 0.67	< 0.60	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
34934 Standish St	6/28/2019	IAG-34934STANDISH-01_062719	AI	< 0.78	< 0.71	< 0.78	120	< 0.78	< 1.0	< 0.50
34934 Standish St	6/28/2019	SSMP-34934STANDISH-01_062819	GS	< 5.0	< 18	< 5.0	64	< 5.0	< 6.7	< 3.2
34934 Standish St	10/25/2019	AA-34934STANDISH-01_102519	AA	< 0.66	< 0.60	< 0.66	< 1.1	0.16 J	< 0.90	< 0.43
34934 Standish St	10/25/2019	IAF-34934STANDISH-02_102519	AI	< 0.71	< 0.64	< 0.71	< 1.2	0.14 J	< 0.96	< 0.46
34934 Standish St	10/25/2019	IAG-34934STANDISH-01_102519	AI	< 0.65	< 0.59	< 0.65	< 1.1	0.12 J	100	< 0.42
34934 Standish St	10/25/2019	SSMP-34934STANDISH-01_102519	GS	< 4.9	< 18	< 4.9	3.1 J	< 4.9	2.7 J	< 3.2
34966 Standish St	10/8/2018	AA-34966STANDISHSTREET-01_100918	AA	< 0.78	< 0.71	< 0.78	< 1.3	< 0.78	< 1.0	< 0.50
34966 Standish St	10/8/2018	IAB-34966STANDISHSTREET-01_100918	AI	< 0.63	< 0.57	< 0.63	3.5	< 0.63	< 0.85	< 0.40
34966 Standish St	10/8/2018	ACS-34966STANDISHSTREET-01_100918	AI	< 0.63	< 0.57	< 0.63	0.90 J	< 0.63	< 0.85	< 0.40
34966 Standish St	10/8/2018	ACS-34966STANDISHSTREET-02_100918	AI	< 0.65	< 0.59	< 0.65	0.63 J	< 0.65	< 0.88	< 0.42
34966 Standish St	10/8/2018	IAF-34966STANDISHSTREET-01_100918	AI	< 0.67	< 0.60	< 0.67	7.1	< 0.67	< 0.90	< 0.43
34966 Standish St	10/8/2018	IAF-34966STANDISHSTREET-02_100918	AI	R	R	R	R	R	R	R
34966 Standish St	10/8/2018	SUMP-34966STANDISHSTREET_100818	WG	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
34966 Standish St	10/9/2018	SMP-34966STANDISHSTREET-01_100918	GS	< 4.7	< 17	1.3 J	6.3 J	< 4.7	< 6.4	< 3.0
34966 Standish St	10/9/2018	SMP-34966STANDISHSTREET-02_100918	GS	< 4.7	< 17	< 4.7	1.7 J	< 4.7	7.9	< 3.0
34966 Standish St	3/14/2019	SUMP-34966STANDISH-01-031419	WG	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
34966 Standish St	3/15/2019	DUP-34966STANDISHSTREET-02_031419	AA	< 0.67	< 0.61	< 0.67	< 1.1	< 0.67	< 0.91	< 0.43
34966 Standish St	3/15/2019	IAG-34966STANDISHSTREET-02_031419	AI	< 0.65	< 0.59	< 0.65	0.19 J	< 0.65	< 0.89	< 0.42
34966 Standish St	3/15/2019	DUP-34966STANDISHSTREET-01_031419	AI	< 0.61	< 0.55	< 0.61	0.18 J	< 0.61	< 0.83	< 0.39
34966 Standish St	3/15/2019	IAB-34966STANDISHSTREET-01_031419	AI	< 0.63	< 0.58	< 0.63	2.7	< 0.63	< 0.86	< 0.41
34966 Standish St	3/15/2019	IAF-34966STANDISHSTREET-01_031419	AI	< 0.69	< 0.63	< 0.69	3.8	< 0.69	< 0.94	< 0.44
34966 Standish St	3/15/2019	SMP-34966STANDISHSTREET-01_031519	GS	< 4.6	< 17	< 4.6	4.1 J	< 4.6	< 6.3	< 3.0
34966 Standish St	3/15/2019	SMP-34966STANDISHSTREET-02_031519	GS	< 4.6	< 16	< 4.6	< 7.8	< 4.6	3.6 J	< 2.9
34966 Standish St	3/15/2019	SMP-34966STANDISHSTREET-03_031519	GS	< 5.0	< 18	< 5.0	4.5 J	< 5.0	< 6.8	< 3.2
34966 Standish St	6/21/2019	AA-34966STANDISHSTREET-01_062019	AA	< 0.66	< 0.60	< 0.66	< 1.1	< 0.66	< 0.89	< 0.42
34966 Standish St	6/21/2019	IAB-34966STANDISHSTREET-01_062019	AI	< 0.70	0.22 J	< 0.70	< 1.2	< 0.70	< 0.96	< 0.46
34966 Standish St	6/21/2019	DUP-34966STANDISHSTREET-01_062019	AI	< 0.65	0.14 J	< 0.65	0.70 J	< 0.65	< 0.88	< 0.42
34966 Standish St	6/21/2019	IAF-34966STANDISHSTREET-01_062019	AI	< 0.69	< 0.63	< 0.69	5.3	< 0.69	< 0.94	< 0.44
34966 Standish St	6/21/2019	IAF-34966STANDISHSTREET-02_062019	AI	< 0.70	< 0.64	< 0.70	< 1.2	< 0.70	< 0.95	< 0.45
34966 Standish St	6/21/2019	SMP-34966STANDISHSTREET-01_062119	GS	< 4.8	< 17	< 4.8	2.9 J	< 4.8	< 6.5	< 3.1
34966 Standish St	6/21/2019	SMP-34966STANDISHSTREET-02_062119	GS	< 4.6	< 17	< 4.6	1.5 J	< 4.6	11	< 3.0
34966 Standish St	6/21/2019	SMP-34966STANDISHSTREET-03_062119	GS	< 4.9	< 18	< 4.9	3.4 J	< 4.9	< 6.6	< 3.2
34966 Standish St	6/21/2019	SUMP-34966STANDISH-01_062119	WG	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
34851 Wadsworth	10/18/2018	AA-34851WADSWORTH-01_101718	AA	R	R	R	R	R	R	R
34851 Wadsworth	10/18/2018	IACS-34851WADSWORTH-01_101718	AI	< 0.60	< 0.55	< 0.60	< 1.0	< 0.60	< 0.82	< 0.39
34851 Wadsworth	10/18/2018	IAF-34851WADSWORTH-01_101718	AI	R	R	R	R	R	R	R
34851 Wadsworth	10/18/2018	SSMP-34851WADSWORTH-01_101818	GS	R	R	R	R	R	R	R
34851 Wadsworth	10/19/2018	IAG-34851WADSWORTH-01_101818	AI	R	R	R	R	R	R	R
34851 Wadsworth	3/20/2019	AA-34851WADSWORTH-01_031919	AA	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65	< 0.89	< 0.42
34851 Wadsworth	3/20/2019	DUP-34851WADSWORTH-02_031919	AA	< 0.62	< 0.56	< 0.62	< 1.0	< 0.62	< 0.84	< 0.40
34851 Wadsworth	3/20/2019	IAG-34851WADSWORTH-01_031919	AI	< 0.66	< 0.60	< 0.66	< 1.1	< 0.66	< 0.89	< 0.42
34851 Wadsworth	3/20/2019	DUP-34851WADSWORTH-01_031919	AI	< 0.60	< 0.55	< 0.60	0.12 J	< 0.60	< 0.82	< 0.39
34851 Wadsworth	3/20/2019	IAF-34851WADSWORTH-01_031919	AI	< 0.67	< 0.61	< 0.67	< 1.1	< 0.67	< 0.91	< 0.43
34851 Wadsworth	3/20/2019	SSMP-34851WADSWORTH-01_032019	GS	< 5.2	< 19	< 5.2	< 8.9	< 5.2	< 7.1	< 3.4
34851 Wadsworth	7/3/2019	AA-34851WADSWORTH-01_070219	AA	< 0.76	< 0.70	< 0.76	< 1.3	< 0.76	< 1.0	< 0.49
34851 Wadsworth	7/3/2019	IAG-34851WADSWORTH-01_070219	AI	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65	< 0.88	< 0.42
34851 Wadsworth	7/3/2019	DUP-34851WADSWORTH-01_070219	AI	< 0.67	< 0.61	< 0.67	< 1.2	< 0.67	< 0.91	< 0.43
34851 Wadsworth	7/3/2019	IAF-34851WADSWORTH-01_070219	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34851 Wadsworth	7/3/2019	SSMP-34851WADSWORTH-01_070319	GS	< 5.0	< 18	< 5.0	2.6 J	< 5.0	< 6.8	< 3.2
34891 Wadsworth	11/2/2018	AA-34891WADSWORTH-01_110118	AA	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65	< 0.88	< 0.42
34891 Wadsworth	11/2/2018	IACS-34891WADSWORTH-02_110118	AI	< 0.74	< 0.67	< 0.74	< 1.3	< 0.74	< 1.0	< 0.48
34891 Wadsworth	11/2/2018	IAF-34891WADSWORTH-03_110118	AI	< 0.64	< 0.58	< 0.64	< 1.1	< 0.64	< 0.86	< 0.41
34891 Wadsworth	11/2/2018	IAF-34891WADSWORTH-04_110118	AI	< 0.66	< 0.60	< 0.66	< 1.1	< 0.66	< 0.89	< 0.42
34891 Wadsworth	11/2/2018	IAG-34891WADSWORTH-01_110118	AI	< 3.0	< 2.7	< 3.0	< 5.1	< 3.0	< 4.0	< 1.9
34891 Wadsworth	11/2/2018	SSMP-34891WADSWORTH-01_110218	GS	< 4.6	< 17	< 4.6	9.3	< 4.6	< 6.3	< 3.0
34891 Wadsworth	11/2/2018	SSMP-34891WADSWORTH-02_110218	GS	< 4.7	< 17	< 4.7	2.3 J	< 4.7	< 6.4	< 3.0
34891 Wadsworth	3/19/2019	AA-34891WADSWORTH-01_031819	AA	< 0.63	< 0.57	< 0.63	0.10 J	< 0.63	< 0.85	< 0.40
34891 Wadsworth	3/19/2019	DUP-34891WADSWORTH-01_031819	AA	< 0.60	< 0.55	< 0.60	0.12 J	< 0.60	< 0.82	< 0.39
34891 Wadsworth	3/19/2019	IAF-34891WADSWORTH-03_031819	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34891 Wadsworth	3/19/2019	IAF-34891WADSWORTH-04_031819	AI	< 0.76	< 0.69	< 0.76	< 1.3	< 0.76	< 1.0	< 0.49
34891 Wadsworth	3/19/2019	IAG-34891WADSWORTH-01_031819	AI	< 1.6	< 1.4	< 1.6	< 2.7	< 1.6	< 0.43	< 1.0
34891 Wadsworth	3/19/2019	SSMP-34891WADSWORTH-01_031919	GS	< 4.4	< 16	< 4.4	4.8 J	< 4.4	< 5.9	< 2.8
34891 Wadsworth	3/19/2019	SSMP-34891WADSWORTH-02_031919	GS	< 4.5	< 16	< 4.5	< 7.8	< 4.5	< 6.2	< 2.9
34891 Wadsworth	6/14/2019	AA-34891WADSWORTH-01_061319	AA	< 0.67	0.25 J	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
34891 Wadsworth	6/14/2019	IAF-34891WADSWORTH-03_061319	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34891 Wadsworth	6/14/2019	IAF-34891WADSWORTH-04_061319	AI	< 0.70	< 0.64	< 0.70	< 1.2	< 0.70	< 0.95	< 0.45
34891 Wadsworth	6/14/2019	IAG-34891WADSWORTH-01_061319	AI	< 1.1	< 1.0	< 1.1	< 2.0	< 1.1	< 1.6	< 0.74
34891 Wadsworth	6/14/2019	SSMP-34891WADSWORTH-01_061419	GS	< 4.9	< 18	< 4.9	22	< 4.9	3.3 J	< 3.2
34891 Wadsworth	6/14/2019	SSMP-34891WADSWORTH-02_061419	GS	< 4.9	< 18	< 4.9	< 8.4	< 4.9	< 6.6	< 3.2
34935 Wadsworth	11/1/2018	AA-34935WADSWORTH-01_103118	AA	< 0.70	< 0.64	< 0.70	< 1.2	< 0.70	< 0.96	< 0.46
34935 Wadsworth	11/1/2018	IACS-34935WADSWORTH-01_103118	AI	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65	< 0.88	< 0.42
34935 Wadsworth	11/1/2018	IAF-34935WADSWORTH-02_103118	AI	< 0.67	< 0.61	< 0.67	< 1.2	< 0.67	< 0.91	< 0.43
34935 Wadsworth	11/1/2018	IAG-34935WADSWORTH-03_103118	AI	< 0.76	< 0.69	< 0.76	< 1.3	< 0.76	< 1.0	< 0.49
34935 Wadsworth	11/1/2018	SSMP-34935WADSWORTH-01_110118	GS	< 4.7	< 17	< 4.7	170	< 4.7	< 6.4	< 3.0
34935 Wadsworth	11/1/2018	SSMP-34935WADSWORTH-02_110118	GS	< 4.8	< 18	< 4.8	130	< 4.8	< 6.5	< 3.1
34935 Wadsworth	11/2/2018	IAB-34935WADSWORTH-04_110118	AI	< 0.65	< 0.59	< 0.65	0.22 J	< 0.65	< 0.89	< 0.42
34935 Wadsworth	3/14/2019	AA-34935WADSWORTH-01_031319	AA	< 0.66	< 0.60	< 0.66	0.14 J	0.12 J	0.21 J	< 0.42
34935 Wadsworth	3/14/2019	DUP-34935WADSWORTH-01_031319	AA	< 0.57	< 0.52	< 0.57	0.15 J	0.12 J	0.11 J	< 0.37
34935 Wadsworth	3/14/2019	IAB-34935WADSWORTH-04_031319	AI	< 0.62	< 0.56	< 0.62	0.18 J	< 0.62	< 0.84	< 0.40
34935 Wadsworth	3/14/2019	IAF-34935WADSWORTH-02_031319	AI	< 0.63	< 0.57	< 0.63	0.16 J	< 0.63	&	

COC				1,1-Dichloroethene	1,4-Dioxane	cis-1,2-Dichloroethene	Tetra chloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
Unit				ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Residential Volatilization to Indoor Air RIASLs (Indoor/Ambient Air) - Provided 7/22/2017 in CD (Residential Indoor Air) (ug/m3):				210	5.1	8.3	41	270	2.0	1.6
Residential Volatilization to Indoor Air Criteria - house with a basement. Provided by EGLE 10/30/2018 (Residential Soil Gas) (ug/m3):				7000	170	280	1400	2800	67	54
Location	Sample Date	Sample Type	Matrix							
34935 Wadsworth	7/3/2019	IAG-34935WADSWORTH-03_070219	AI	< 0.76	< 0.69	< 0.76	< 1.3	< 0.76	< 1.0	< 0.49
34935 Wadsworth	7/3/2019	SSMP-34935WADSWORTH-01_070319	GS	< 4.8	< 17	< 4.8	510	< 4.8	< 6.5	< 3.1
34935 Wadsworth	7/3/2019	SSMP-34935WADSWORTH-02_070319	GS	< 4.9	< 18	< 4.9	120	< 4.9	3.1 J	< 3.2
34935 Wadsworth	7/3/2019	SSMP-34935WADSWORTH-03_070319	GS	< 4.9	< 18	< 4.9	28	< 4.9	< 6.6	< 3.2
34935 Wadsworth	10/2/2019	AA-34935WADSWORTH-01_100219	AA	< 0.78	< 0.71	< 0.78	< 1.3	< 0.78	< 1.0	< 0.50
34935 Wadsworth	10/2/2019	IAB-34935WADSWORTH-04_100219	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34935 Wadsworth	10/2/2019	IAF-34935WADSWORTH-02_100219	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.93	< 0.44
34935 Wadsworth	10/2/2019	IAG-34935WADSWORTH-03_100219	AI	< 0.68	< 0.62	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34935 Wadsworth	10/2/2019	SSMP-34935WADSWORTH-01_100219	GS	< 5.0	< 18	< 5.0	330	< 5.0	< 6.8	< 3.2
34935 Wadsworth	10/2/2019	SSMP-34935WADSWORTH-02_100219	GS	< 5.1	< 18	< 5.1	130	< 5.1	< 6.9	< 3.3
34935 Wadsworth	10/2/2019	SSMP-34935WADSWORTH-03_100219	GS	< 5.1	< 18	< 5.1	25	< 5.1	< 6.9	< 3.3
34965 Wadsworth	10/12/2018	AA-34965WADSWORTH-01_101118	AA	< 0.63	< 0.57	< 0.63	< 1.1	< 0.63	< 0.85	< 0.40
34965 Wadsworth	10/12/2018	IAB-34965WADSWORTH-01_101118	AI	< 0.63	0.13 J	< 0.63	1.6	< 0.63	< 0.85	< 0.40
34965 Wadsworth	10/12/2018	IACS-34965WADSWORTH-01_101118	AI	< 0.67	< 0.60	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
34965 Wadsworth	10/12/2018	IAF-34965WADSWORTH-01_101118	AI	R	R	R	R	R	R	R
34965 Wadsworth	10/12/2018	IAG-34965WADSWORTH-01_101118	AI	< 0.74	< 0.67	< 0.74	0.64 J	< 0.74	< 1.0	< 0.48
34965 Wadsworth	10/12/2018	SSMP-34965WADSWORTH-01_101218	GS	< 4.4	< 16	< 4.4	< 7.5	< 4.4	< 5.9	< 2.8
34965 Wadsworth	3/21/2019	AA-34965WADSWORTH-01_032019	AA	< 0.71	< 0.64	< 0.71	< 1.2	< 0.71	< 0.96	< 0.46
34965 Wadsworth	3/21/2019	DUP-34965WADSWORTH-01_032019	AA	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
34965 Wadsworth	3/21/2019	IAB-34965WADSWORTH-01_032019	AI	< 0.67	< 0.60	< 0.67	0.24 J	< 0.67	< 0.90	< 0.43
34965 Wadsworth	3/21/2019	IAF-34965WADSWORTH-01_032019	AI	< 0.64	< 0.58	< 0.64	0.29 J	< 0.64	< 0.86	< 0.41
34965 Wadsworth	3/21/2019	IAG-34965WADSWORTH-01_032019	AI	< 0.68	0.48 J	< 0.68	0.74 J	< 0.68	0.33 J	< 0.44
34965 Wadsworth	3/21/2019	SSMP-34965WADSWORTH-01_032119	GS	< 4.8	< 17	< 4.8	< 8.2	< 4.8	< 6.5	< 3.1
34965 Wadsworth	6/26/2019	AA-34965WADSWORTH-01_062519	AA	< 0.72	< 0.66	< 0.72	< 1.2	< 0.72	< 0.98	< 0.47
34965 Wadsworth	6/26/2019	IAB-34965WADSWORTH-01_062519	AI	< 0.64	< 0.58	< 0.64	< 1.1	< 0.64	< 0.86	< 0.41
34965 Wadsworth	6/26/2019	DUP-34965WADSWORTH-01_062519	AI	< 0.65	< 0.59	< 0.65	< 1.1	< 0.65	< 0.88	< 0.42
34965 Wadsworth	6/26/2019	IAG-34965WADSWORTH-01_062519	AI	< 0.72	< 0.66	< 0.72	3.8	0.44 J	< 0.98	< 0.47
34965 Wadsworth	6/26/2019	SSMP-34965WADSWORTH-01_062619	GS	< 5.0	< 18	< 5.0	< 8.5	< 5.0	< 6.8	< 3.2
34965 Wadsworth	7/3/2019	IAF-34965WADSWORTH-01_070219	AI	< 0.67	0.35 J	< 0.67	0.92 J	< 0.67	< 0.91	< 0.43
34965 Wadsworth	7/3/2019	DUP-34965WADSWORTH-01_070219	AI	< 0.70	< 0.64	< 0.70	0.91 J	< 0.70	< 0.95	< 0.45
34965 Wadsworth	9/25/2019	AA-34965WADSWORTH-01_092519	AA	< 0.67	< 0.60	< 0.67	< 1.1	< 0.67	< 0.90	< 0.43
34965 Wadsworth	9/25/2019	IAB-34965WADSWORTH-01_092519	AI	< 0.68	0.15 J	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34965 Wadsworth	9/25/2019	DUP-34965WADSWORTH-01_092519	AI	< 0.69	< 0.63	< 0.69	< 1.2	< 0.69	< 0.94	< 0.45
34965 Wadsworth	9/25/2019	IAF-34965WADSWORTH-01_092519	AI	< 0.68	0.13 J	< 0.68	< 1.2	< 0.68	< 0.92	< 0.44
34965 Wadsworth	9/25/2019	IAG-34965WADSWORTH-01_092519	AI	< 0.74	0.15 J	< 0.74	6.3	< 0.74	< 1.0	< 0.48
34965 Wadsworth	9/25/2019	SSMP-34965WADSWORTH-01_092519	GS	< 5.2	< 19	< 5.2	2.6 J	< 5.2	< 7.1	< 3.4

Notes:

1. All samples analyzed via United States Environmental Protection Agency (USEPA) Method TO-15.

Abbreviations:

<	Denotes not detected above reporting limit
Bold	Denotes exceedance of criteria
CD	Consent Decree
COC	Constituent of Concern
DUP	Duplicate
FD	Field Duplicate
GS	Subslab Soil Gas
AA	Ambient Air
AI	Indoor Air
IACS	Indoor Air Crawlspace
IAF	Indoor Air First Floor
IAG	Indoor Air Garage
J	Estimated result
NA	Not Analyzed
NS	Not Sampled
R	Rejected
RIASL	Residential Interim Action Screening Level
SSMP	Subslab Monitoring Point
SVMP	Soil Vapor Monitoring Point
ug/m3	Microgram per cubic meter
EGLE	Department of Environment Great Lakes and Energy

Location:	Residential RIASL	SVMP-01S									SVMP-01D									SVMP-02S								
		3.5									7									4.5								
		6/8/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/6/2018	3/4/2019	6/25/2019	6/8/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/6/2018	3/4/2019	6/25/2019	6/9/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/21/2019	6/25/2019
VOCs (Method TO-15) µg/m³																												
1,1-Dichloroethene	7,000	NA	< 5.0	< 4.2	< 4.6	< 4.8	< 4.8	< 4.6	< 4.5	< 4.9	NA	< 4.8	< 4.8	< 4.5	< 5.1	< 4.7	< 4.5	< 4.6	< 5.0	NA	< 5.2	< 4.5	< 8.3	< 4.9	< 5.0	< 4.6	< 4.7	< 5.2
1,4-Dioxane	170	NA	< 18	< 15	< 16	< 18	< 18	< 17	< 16	< 18	NA	< 17	< 17	< 16	< 18	< 17	< 16	< 17	< 18	NA	< 19	< 16	< 30	< 18	< 18	< 17	< 17	< 19
cis-1,2-Dichloroethene	280	NA	< 5.0	< 4.2	< 4.6	< 4.8	< 4.8	< 4.6	< 4.5	< 4.9	NA	< 4.8	< 4.8	< 4.5	< 5.1	< 4.7	< 4.5	< 4.6	< 5.0	NA	< 5.2	< 4.5	< 8.3	< 4.9	< 5.0	< 4.6	< 4.7	< 5.2
Tetrachloroethene	1,400	NA	< 8.5	< 7.1	< 7.8	< 8.3	< 8.3	< 7.9	< 7.7	< 8.4	NA	< 8.2	< 8.2	< 7.6	< 8.7	< 8.1	< 7.7	< 8.0	< 8.5	NA	< 9.0	< 7.8	< 14	< 8.4	< 8.5	< 7.8	< 8.1	< 8.8
trans-1,2-Dichloroethene	2,800	NA	< 5.0	< 4.2	< 4.6	< 4.8	< 4.8	< 4.6	< 4.5	< 4.9	NA	< 4.8	< 4.8	< 4.5	< 5.1	< 4.7	< 4.5	< 4.6	< 5.0	NA	< 5.2	< 4.5	< 8.3	< 4.9	< 5.0	< 4.6	< 4.7	< 5.2
Trichloroethene	67	< 6.2	< 6.8	< 5.6	< 6.2	< 6.6	< 6.6	< 6.3	< 6.1	< 6.6	< 6.2	< 6.5	< 6.5	< 6.0	< 6.9	< 6.4	< 6.1	< 6.3	< 6.8	< 6.0	< 7.1	< 6.2	< 11	< 6.7	< 6.8	< 6.2	< 6.4	< 7.0
Vinyl Chloride	54	< 3.0	< 3.2	< 2.7	< 2.9	< 3.1	< 3.1	< 3.0	< 2.9	< 3.2	< 3.0	< 3.1	< 3.1	< 2.9	< 3.3	< 3.0	< 2.9	< 3.0	< 3.2	< 2.8	< 3.4	< 2.9	< 5.3	< 3.2	< 3.2	< 3.0	< 3.0	< 3.3

Location:	Residential RIASL	SVMP-02D									SVMP-03S									SVMP-03D								
		8.5									3.5									7								
		6/9/2017	9/20/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/5/2019	6/25/2019	6/12/2017	9/21/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/21/2019	6/25/2019	6/12/2017	9/21/2017	11/17/2017	2/19/2018	5/29/2018	8/22/2018	11/7/2018	3/21/2019	6/25/2019
VOCs (Method TO-15) µg/m³																												
1,1-Dichloroethene	7,000	NA	< 5.2	< 4.6	< 8.3	< 5.1	< 4.9	< 4.6	< 4.8	< 5.2	NA	< 4.9	< 4.0	< 4.3	< 5.5	< 4.6	< 4.5	NS	< 5.5	NA	< 4.7	< 4.3	< 4.6	< 5.0	< 4.6	< 4.4	< 4.8	< 5.4
1,4-Dioxane	170	NA	< 19	< 17	< 30	< 18	< 18	< 17	< 17	< 19	NA	< 18	< 15	< 16	< 20	< 17	< 16	NS	< 20	NA	< 17	< 16	< 17	< 18	< 17	< 16	< 18	< 20
cis-1,2-Dichloroethene	280	NA	< 5.2	< 4.6	< 8.3	< 5.1	< 4.9	< 4.6	< 4.8	< 5.2	NA	< 4.9	< 4.0	< 4.3	< 5.5	< 4.6	< 4.5	NS	< 5.5	NA	< 4.7	< 4.3	< 4.6	< 5.0	< 4.6	< 4.4	< 4.8	< 5.4
Tetrachloroethene	1,400	NA	< 9.0	< 7.9	< 14	< 8.7	< 8.4	< 7.9	< 8.1	< 9.0	NA	< 8.3	< 6.9	< 7.3	< 9.4	< 7.8	< 7.7	NS	< 9.4	NA	< 8.1	< 7.4	< 7.9	< 8.5	< 7.8	< 7.5	< 8.3	< 9.3
trans-1,2-Dichloroethene	2,800	NA	< 5.2	< 4.6	< 8.3	< 5.1	< 4.9	< 4.6	< 4.8	< 5.2	NA	< 4.9	< 4.0	< 4.3	< 5.5	< 4.6	< 4.5	NS	< 5.5	NA	< 4.7	< 4.3	< 4.6	< 5.0	< 4.6	< 4.4	< 4.8	< 5.4
Trichloroethene	67	< 6.1	< 7.1	< 6.3	< 11	< 6.9	< 6.6	< 6.3	< 6.4	< 7.1	< 6.3	< 6.6	< 5.5	< 5.8	< 7.4	< 6.2	< 6.1	NS	< 7.4	< 6.8	< 6.4	< 5.8	< 6.3	< 6.7	< 6.2	< 6.0	< 6.6	< 7.4
Vinyl Chloride	54	< 2.9	< 3.4	< 3.0	< 5.3	< 3.3	< 3.2	< 3.0	< 3.1	< 3.4	< 3.0	< 3.1	< 2.6	< 2.8	< 3.5	< 3.0	< 2.9	NS	< 3.5	< 3.2	< 3.0	< 2.8	< 3.0	< 3.2	< 3.0	< 2.8	< 3.1	< 3.5

Location:	Residential RIASL	SVMP-04									SVMP-05									SVMP-06								
		3.5									4.5									4.5								
		6/12/2017	9/20/2017	11/20/2017	2/21/2018	5/30/2018	8/23/2018	11/5/2018	3/5/2019	6/25/2019	6/12/2017	9/20/2017	11/20/2017	2/21/2018	5/30/2018	8/23/2018	11/5/2018	3/21/2019	6/25/2019	6/13/2017	9/20/2017	11/20/2017	2/21/2018	5/30/2018	8/23/2018	11/5/2018	3/21/2019	6/24/2019
VOCs (Method TO-15) µg/m³																												
1,1-Dichloroethene	7,000	NA	< 4.9	< 4.9	< 4.7	< 4.8	< 4.9	< 5.1	< 5.9	< 4.9	NA	< 4.8	< 4.6	< 4.2	< 4.7	< 4.6	< 4.6	< 5.0	< 5.2	NA	< 4.6	< 4.5	< 4.6	< 4.7	< 4.6	< 4.4	< 4.9	< 5.1
1,4-Dioxane	170	NA	< 18	< 18	< 17	< 17	< 18	< 18	< 22	< 18	NA	< 17	< 16	< 15	< 17	< 17	< 16	< 18	< 19	NA	< 17	< 16	< 17	< 17	< 16	< 16	< 18	< 18
cis-1,2-Dichloroethene	280	NA	< 4.9	< 4.9	< 4.7	< 4.8	< 4.9	< 5.1	< 5.9	< 4.9	NA	< 4.8	< 4.6	< 4.2	< 4.7	< 4.6	< 4.6	< 5.0	< 5.2	NA	8.0	< 4.5	< 4.6	< 4.7	< 4.6	< 4.4	< 4.9	< 5.1
Tetrachloroethene	1,400	NA	8.3 J	< 8.4	< 8.1	< 8.2	< 8.4	< 8.7	< 10	< 8.4	NA	< 8.2	< 7.8	< 7.2	< 8.0	< 7.8	< 7.8	< 8.5	< 9.0	NA	24	< 7.7	< 7.8	< 8.1	< 7.8	< 7.6	< 8.4	< 8.8
trans-1,2-Dichloroethene	2,800	NA	< 4.9	< 4.9	< 4.7	< 4.8	< 4.9	< 5.1	< 5.9	< 4.9	NA	< 4.8	< 4.6	< 4.2	< 4.7	< 4.6	< 4.6	< 5.0	< 5.2	NA	< 4.6	< 4.5	< 4.6	< 4.7	< 4.6	< 4.4	< 4.9	< 5.1
Trichloroethene	67	< 6.0	< 6.6	< 6.7	< 6.4	< 6.5	< 6.6	< 6.9	< 8.1	< 6.6	< 6.7	< 6.5	< 6.2	< 5.7	< 6.3	< 6.2	< 6.2	< 6.8	< 7.1	< 6.0	< 6.3	< 6.1	< 6.2	< 6.4	< 6.2	< 6.0	< 6.7	< 6.9
Vinyl Chloride	54	< 2.9	< 3.2	< 3.2	< 3.0	< 3.1	< 3.2	< 3.3	< 3.8	< 3.2	< 3.2	< 3.1	< 2.9	< 2.7	< 3.0	< 3.0	< 2.9	< 3.2	< 3.4	< 2.9	< 3.0	< 2.9	< 3.0	< 3.0	< 2.9	< 2.9	< 3.2	< 3.3

Location:	Residential RIASL	SVMP-07									SVMP-08									SVMP-09								
		3.5									3.5									4								
		6/13/2017	9/20/2017	11/20/2017	2/19/2018	5/30/2018	8/23/2018	11/5/2018	3/4/2019	6/24/2019	6/15/2017	9/20/2017	11/20/2017	2/20/2018	5/29/2018	8/23/2018	11/5/2018	3/5/2019	6/24/2019	6/14/2017	9/20/2017	11/20/2017	2/20/2018	5/30/2018	8/23/2018	11/5/2018	3/5/2019	6/24/2019
VOCs (Method TO-15) µg/m³																												
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.7	< 4.5	< 4.9	< 4.7	< 4.8	< 4.5	< 5.2	NA	< 4.7	< 4.6	< 4.6	< 5.0	< 4.8	< 4.6	< 4.8	< 5.5	NA	< 4.9	< 4.5	< 4.8	< 4.5	< 4.9	< 4.4	< 4.7	< 5.3
1,4-Dioxane	170	NA	< 17	< 17	< 16	< 18	< 17	< 17	< 16	< 19	NA	< 17	< 17	< 17	< 18	< 17	< 17	< 17	< 20	NA	< 18	< 16	< 17	< 16	< 18	< 16	< 17	< 19
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.7	< 4.5	< 4.9	< 4.7	< 4.8	< 4.5	< 5.2	NA	< 4.7	< 4.6	< 4.6	< 5.0	< 4.8	< 4.6	< 4.8	< 5.5	NA	< 4.9	< 4.5	< 4.8	< 4.5	< 4.9	< 4.4	< 4.7	< 5.3
Tetrachloroethene	1,400	NA	< 8.2	< 8.1	< 7.7	< 8.4	< 8.1	< 8.1	< 7.7	< 9.0	NA	< 8.1	< 7.9	< 7.9	< 8.6	< 8.2	< 7.9	< 8.2	< 9.4	NA	< 8.4	< 7.7	< 8.2	< 7.7	< 8.4	< 7.5	< 8.1	< 9.1
trans-1,2-Dichloroethene	2,800	NA	< 4.8	< 4.7	< 4.5	< 4.9	< 4.7	< 4.8	< 4.5	< 5.2	NA	< 4.7	< 4.6	< 4.6	< 5.0	< 4.8	< 4.6	< 4.8	< 5.5	NA	< 4.9	< 4.5	< 4.8	< 4.5	< 4.9	< 4.4	< 4.7	< 5.3
Trichloroethene	67	< 6.3	< 6.5	< 6.4	< 6.1	< 6.7	< 6.4	< 6.4	< 6.1	< 7.1	< 6.5	< 6.4	< 6.2	< 6.3	11	< 6.5	< 6.3	< 6.5	< 7.4	6.9	< 6.6	< 6.1	< 6.5	< 6.1	< 6.6	< 5.9	< 6.4	< 7.2
Vinyl Chloride	54	< 3.0	< 3.1	< 3.0	< 2.9	< 3.2	< 3.0	< 3.1	< 2.9	< 3.4	< 3.1	< 3.0	< 3.0	< 3.0	< 3.2	< 3.1	< 3.0	< 3.1	< 3.5	< 3.0	< 3.2	< 2.9	< 3.1	< 2.9	< 3.2	< 2.8	< 3.0	< 3.4

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Location:	Residential RIASL	SVMP-10									SVMP-11	SVMP-12									SVMP-13								
Sample Depth (ft. bgs):		3									3.5	3.5									2								
Sample Date:		6/13/2017	9/20/2017	11/21/2017	2/20/2018	5/31/2018	8/23/2018	11/5/2018	3/5/2019	6/24/2019	6/13/2017	6/13/2017	9/19/2017	11/21/2017	2/20/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019	6/16/2017	9/19/2017	11/21/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/21/2019	6/25/2019
VOCs (Method TO-15) µg/m³																													
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.4	< 4.7	NS	< 4.9	< 4.7	NS	NS	NA	NA	< 4.8	< 4.7	< 4.7	< 4.8	< 4.7	< 4.8	< 4.8	< 5.0	NA	< 4.6	< 4.6	NS	NS	< 4.8	NS	NS	NS
1,4-Dioxane	170	NA	< 17	< 16	< 17	NS	< 18	< 17	NS	NS	NA	NA	< 17	< 17	< 17	< 18	< 17	< 18	< 17	< 18	NA	< 17	< 16	NS	NS	< 17	NS	NS	NS
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.4	< 4.7	NS	< 4.9	< 4.7	NS	NS	NA	NA	< 4.8	< 4.7	< 4.7	< 4.8	< 4.7	< 4.8	< 4.8	< 5.0	NA	< 4.6	< 4.6	NS	NS	< 4.8	NS	NS	NS
Tetrachloroethene	1,400	NA	< 8.2	< 7.5	< 8.1	NS	< 8.4	< 8.1	NS	NS	NA	NA	< 8.2	< 8.0	< 8.1	< 8.2	< 8.0	< 8.2	< 8.2	< 8.5	NA	< 7.9	< 7.8	NS	NS	< 8.2	NS	NS	NS
trans-1,2-Dichloroethene	2,800	NA	< 4.8	< 4.4	< 4.7	NS	< 4.9	< 4.7	NS	NS	NA	NA	< 4.8	< 4.7	< 4.7	< 4.8	< 4.7	< 4.8	< 4.8	< 5.0	NA	< 4.6	< 4.6	NS	NS	< 4.8	NS	NS	NS
Trichloroethene	67	< 6.7	< 6.5	< 5.9	< 6.4	NS	< 6.6	< 6.4	NS	NS	< 6.3	< 6.4	< 6.5	< 6.3	< 6.4	< 6.5	< 6.4	< 6.5	< 6.4	< 6.5	< 6.8	< 6.6	< 6.3	< 6.2	NS	NS	< 6.5	NS	NS
Vinyl Chloride	54	< 3.2	< 3.1	< 2.8	< 3.0	NS	< 3.2	< 3.0	NS	NS	< 3.0	< 3.0	< 3.1	< 3.0	< 3.0	< 3.1	< 3.0	< 3.1	< 3.1	< 3.2	< 3.2	< 3.0	< 2.9	NS	NS	< 3.1	NS	NS	NS

Location:	Residential RIASL	SVMP-14									SVMP-15									SVMP-16								
Sample Depth (ft. bgs):		2									2									2								
Sample Date:		6/16/2017	9/19/2017	11/21/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/5/2019	6/24/2019	6/16/2017	9/19/2017	11/20/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/21/2019	6/24/2019	6/16/2017	9/19/2017	11/20/2017	2/19/2018	5/31/2018	8/24/2018	11/7/2018	3/21/2019	6/25/2019
VOCs (Method TO-15) µg/m³																												
1,1-Dichloroethene	7,000	NA	< 4.5	< 4.1	NS	NS	< 4.7	NS	< 5.3	NS	NA	< 4.7	< 4.4	NS	NS	< 4.8	NS	NS	NS	NA	< 4.5	< 4.3	NS	NS	< 5.0	NS	NS	NS
1,4-Dioxane	170	NA	< 16	< 15	NS	NS	< 17	NS	< 19	NS	NA	< 17	< 16	NS	NS	< 17	NS	NS	NS	NA	< 16	< 16	NS	NS	< 18	NS	NS	NS
cis-1,2-Dichloroethene	280	NA	< 4.5	< 4.1	NS	NS	< 4.7	NS	< 5.3	NS	NA	< 4.7	< 4.4	NS	NS	< 4.8	NS	NS	NS	NA	< 4.5	< 4.3	NS	NS	< 5.0	NS	NS	NS
Tetrachloroethene	1,400	NA	< 7.8	< 7.0	NS	NS	< 8.1	NS	< 9.0	NS	NA	< 8.1	< 7.6	NS	NS	< 8.2	NS	NS	NS	NA	< 7.8	< 7.4	NS	NS	< 8.5	NS	NS	NS
trans-1,2-Dichloroethene	2,800	NA	< 4.5	< 4.1	NS	NS	< 4.7	NS	< 5.3	NS	NA	< 4.7	< 4.4	NS	NS	< 4.8	NS	NS	NS	NA	< 4.5	< 4.3	NS	NS	< 5.0	NS	NS	NS
Trichloroethene	67	< 6.4	< 6.2	< 5.6	NS	NS	< 6.4	NS	< 7.2	NS	< 6.3	< 6.4	< 6.0	NS	NS	< 6.5	NS	NS	NS	< 6.4	< 6.2	< 5.9	NS	NS	< 6.8	NS	NS	NS
Vinyl Chloride	54	< 3.0	< 2.9	< 2.6	NS	NS	< 3.0	NS	< 3.4	NS	< 3.0	< 3.0	< 2.9	NS	NS	< 3.1	NS	NS	NS	< 3.0	< 2.9	< 2.8	NS	NS	< 3.2	NS	NS	NS

Location:	Residential RIASL	SVMP-17									SVMP-18									SVMP-19								
Sample Depth (ft. bgs):		2									3									3								
Sample Date:		6/16/2017	9/19/2017	11/20/2017	2/19/2018	5/30/2018	8/24/2018	11/7/2018	3/5/2019	6/24/2019	6/16/2017	9/18/2017	11/17/2017	2/20/2018	5/30/2018	8/22/2018	11/7/2018	3/5/2019	6/25/2019	6/16/2017	9/18/2017	11/17/2017	2/20/2018	5/31/2018	8/22/2018	11/7/2018	3/5/2019	6/25/2019
VOCs (Method TO-15) µg/m³																												
1,1-Dichloroethene	7,000	NA	< 4.8	NS	NS	< 4.8	< 4.9	NS	< 4.9	< 5.1	NA	< 4.6	< 4.3	< 4.5	< 4.7	< 5.1	< 4.6	< 5.6	< 5.2	NA	< 5.1	< 4.3	< 4.1	NS	< 4.5	NS	< 4.8	NS
1,4-Dioxane	170	NA	< 17	NS	NS	< 17	< 18	NS	< 18	< 18	NA	< 17	< 16	< 16	< 17	< 18	< 16	< 20	< 19	NA	< 18	< 16	< 15	NS	< 16	NS	< 18	NS
cis-1,2-Dichloroethene	280	NA	< 4.8	NS	NS	< 4.8	< 4.9	NS	< 4.9	< 5.1	NA	< 4.6	< 4.3	< 4.5	< 4.7	< 5.1	< 4.6	< 5.6	< 5.2	NA	< 5.1	< 4.3	< 4.1	NS	< 4.5	NS	< 4.8	NS
Tetrachloroethene	1,400	NA	< 8.2	NS	NS	< 8.1	< 8.4	NS	< 8.3	< 8.8	NA	< 7.9	< 7.3	< 7.8	< 8.1	< 8.8	< 7.8	< 9.6	< 9.0	NA	< 8.8	< 7.4	< 7.1	NS	< 7.7	NS	< 8.3	NS
trans-1,2-Dichloroethene	2,800	NA	< 4.8	NS	NS	< 4.8	< 4.9	NS	< 4.9	< 5.1	NA	< 4.6	< 4.3	< 4.5	< 4.7	< 5.1	< 4.6	< 5.6	< 5.2	NA	< 5.1	< 4.3	< 4.1	NS	< 4.5	NS	< 4.8	NS
Trichloroethene	67	18	22	NS	NS	< 6.4	< 6.6	NS	< 6.6	< 6.9	< 6.6	< 6.3	< 5.8	< 6.2	< 6.4	< 6.9	< 6.2	< 7.6	< 7.1	< 6.4	< 6.9	< 5.9	< 5.6	NS	< 6.1	NS	< 6.6	NS
Vinyl Chloride	54	< 3.0	< 3.1	NS	NS	< 3.1	< 3.2	NS	< 3.1	< 3.3	< 3.2	< 3.0	< 2.8	< 2.9	< 3.0	< 3.3	< 2.9	< 3.6	< 3.4	< 3.0	< 3.3	< 2.8	< 2.7	NS	< 2.9	NS	< 3.1	NS

Location:	Residential RIASL	SVMP-20									SVMP-21									SVMP-22								
Sample Depth (ft. bgs):		3									2									3								
Sample Date:		6/19/2017	9/19/2017	11/20/2017	2/19/2018	5/31/2018	8/22/2018	11/7/2018	3/5/2019	6/25/2019	6/19/2017	9/19/2017	11/20/2017	2/19/2018	5/30/2018	8/24/2018	11/7/2018	3/5/2019	6/25/2019	6/19/2017	9/18/2017	11/17/2017	2/20/2018	5/31/2018	8/21/2018	11/5/2018	3/5/2019	6/25/2019
VOCs (Method TO-15) µg/m³																												
1,1-Dichloroethene	7,000	NA	< 4.8	NS	NS	NS	< 4.7	NS	NS	NS	NA	< 4.6	< 4.6	NS	< 4.8	< 4.8	NS	< 5.2	< 5.0	NA	< 4.8	< 4.9	< 4.7	NS	< 4.7	< 4.7	< 4.8	< 4.9
1,4-Dioxane	170	NA	< 17	NS	NS	NS	< 17	NS	NS	NS	NA	< 17	< 17	NS	< 18	< 17	NS	< 19	< 18	NA	< 17	< 18	< 17	NS	< 17	< 17	< 18	< 18
cis-1,2-Dichloroethene	280	NA	< 4.8	NS	NS	NS	< 4.7	NS	NS	NS	NA	< 4.6	< 4.6	NS	< 4.8	< 4.8	NS	< 5.2	< 5.0	NA	< 4.8	< 4.9	< 4.7	NS	< 4.7	< 4.7	< 4.8	< 4.9
Tetrachloroethene	1,400	NA	< 8.2	NS	NS	NS	< 8.0	NS	NS	NS	NA	< 7.9	< 7.9	NS	< 8.3	< 8.2	NS	< 8.8	< 8.5	NA	< 8.2	< 8.4	< 8.1	NS	< 8.0	< 8.1	< 8.3	< 8.4
trans-1,2-Dichloroethene	2,800	NA	< 4.8	NS	NS	NS	< 4.7	NS	NS	NS	NA	< 4.6	< 4.6	NS	< 4.8	< 4.8	NS	< 5.2	< 5.0	NA	< 4.8	< 4.9	< 4.7	NS	< 4.7	< 4.7	< 4.8	< 4.9
Trichloroethene	67	< 5.8	< 6.5	NS	NS	NS	< 6.3	NS	NS	NS	< 6.2	< 6.3	< 6.2	NS	< 6.6	< 6.5	NS	< 7.0	< 6.8	< 6.4	< 6.5	< 6.7	< 6.4	NS	< 6.3	< 6.4	< 6.6	< 6.6
Vinyl Chloride	54	< 2.7	< 3.1	NS	NS	NS	< 3.0	NS	NS	NS	< 3.0	< 3.0	< 3.0	NS	< 3.1	< 3.1	NS	< 3.3	< 3.2	< 3.1	< 3.1	< 3.2	< 3.0	NS	< 3.0	< 3.0	< 3.1	< 3.2

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Location:	Residential RIASL	SVMP-23									SVMP-24								SVMP-25S									
		3									4								3									
		6/19/2017	9/18/2017	11/17/2017	2/20/2018	5/31/2018	8/22/2018	11/5/2018	3/21/2019	6/25/2019	6/19/2017	9/18/2017	11/17/2017	2/21/2018	5/30/2018	8/22/2018	11/5/2018	3/21/2019	6/25/2019	6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019
VOCs (Method TO-15) µg/m³																												
1,1-Dichloroethene	7,000	NA	< 4.6	< 4.3	< 4.2	NS	< 4.6	< 4.5	NS	< 4.5	NA	< 4.6	< 4.4	< 4.7	< 4.6	< 4.7	< 4.5	< 4.8	< 4.7	NA	< 4.7	< 4.5	< 4.4	< 5.0	< 5.0	< 4.6	< 5.0	< 5.1
1,4-Dioxane	170	NA	< 17	< 16	< 15	NS	< 17	< 16	NS	< 16	NA	< 17	< 16	< 17	< 17	< 17	< 16	< 18	< 17	NA	< 17	< 16	< 16	< 18	< 18	< 17	< 18	< 18
cis-1,2-Dichloroethene	280	NA	< 4.6	< 4.3	< 4.2	NS	< 4.6	< 4.5	NS	< 4.5	NA	< 4.6	< 4.4	< 4.7	< 4.6	< 4.7	< 4.5	< 4.8	< 4.7	NA	< 4.7	< 4.5	< 4.4	< 5.0	< 5.0	< 4.6	< 5.0	< 5.1
Tetrachloroethene	1,400	NA	< 7.9	< 7.4	< 7.2	NS	< 7.9	< 7.7	NS	< 7.8	NA	< 7.9	< 7.5	< 8.1	< 7.9	< 8.1	< 7.8	< 8.2	< 8.1	NA	< 8.1	< 7.7	< 7.6	< 8.5	< 8.5	1.6 J	< 8.5	4.1 J
trans-1,2-Dichloroethene	2,800	NA	< 4.6	< 4.3	< 4.2	NS	< 4.6	< 4.5	NS	< 4.5	NA	< 4.6	< 4.4	< 4.7	< 4.6	< 4.7	< 4.5	< 4.8	< 4.7	NA	< 4.7	< 4.5	< 4.4	< 5.0	< 5.0	< 4.6	< 5.0	< 5.1
Trichloroethene	67	< 6.4	< 6.3	< 5.8	< 5.7	NS	< 6.3	< 6.1	NS	< 6.2	< 6.2	< 6.3	< 5.9	< 6.4	< 6.3	6.9	< 6.2	< 6.5	< 6.4	< 6.2	< 6.4	< 6.1	< 6.0	< 6.7	< 6.7	< 6.2	< 6.7	1.3 J
Vinyl Chloride	54	< 3.1	< 3.0	< 2.8	< 2.7	NS	< 3.0	< 2.9	NS	< 2.9	< 3.0	< 3.0	< 2.8	< 3.0	< 3.0	< 3.0	< 2.9	< 3.1	< 3.0	< 3.0	< 3.0	< 2.9	< 2.9	< 3.2	< 3.2	< 3.0	< 3.2	< 3.3

Location:	Residential RIASL	SVMP-25D									SVMP-26								SVMP-27									
		6									4								4.5									
		6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019	6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019	6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019
VOCs (Method TO-15) µg/m³																												
1,1-Dichloroethene	7,000	NA	< 4.4	< 4.7	< 4.4	< 5.1	< 4.7	< 4.7	< 5.2	< 4.9	NA	< 4.9	< 4.4	< 4.4	< 4.9	< 4.6	< 4.9	< 5.0	NA	NA	< 4.4	< 4.4	< 4.4	< 4.9	< 5.0	< 4.5	< 5.0	< 4.9
1,4-Dioxane	170	NA	< 16	< 17	< 16	< 19	< 17	< 17	< 19	< 18	NA	< 18	< 16	< 16	< 18	< 17	< 18	< 18	NA	NA	< 16	< 16	< 16	< 18	< 18	< 16	< 18	< 18
cis-1,2-Dichloroethene	280	NA	< 4.4	< 4.7	< 4.4	< 5.1	< 4.7	< 4.7	< 5.2	< 4.9	NA	< 4.9	< 4.4	< 4.4	< 4.9	14	< 4.9	< 5.0	NA	NA	11	< 4.4	< 4.4	< 4.9	< 5.0	< 4.5	< 5.0	< 4.9
Tetrachloroethene	1,400	NA	12	< 8.1	< 7.6	< 8.8	< 8.1	2.5 J	< 8.8	1.4 J	NA	< 8.4	< 7.6	< 7.5	< 8.4	< 8.0	< 8.4	< 8.5	NA	NA	< 7.6	< 7.5	< 7.6	< 8.4	< 8.5	< 7.6	< 8.5	< 8.4
trans-1,2-Dichloroethene	2,800	NA	< 4.4	< 4.7	< 4.4	< 5.1	< 4.7	< 4.7	< 5.2	< 4.9	NA	< 4.9	< 4.4	< 4.4	< 4.9	< 4.6	< 4.9	< 5.0	NA	NA	< 4.4	< 4.4	< 4.4	< 4.9	< 5.0	< 4.5	< 5.0	< 4.9
Trichloroethene	67	< 6.4	< 6.0	< 6.4	< 6.0	< 7.0	< 6.4	< 6.4	< 7.0	< 6.6	< 6.2	< 6.6	< 6.0	< 5.9	< 6.7	24	< 6.7	< 6.8	NA	< 6.2	7.2	< 5.9	< 6.0	< 6.7	< 6.7	< 6.0	< 6.7	< 6.6
Vinyl Chloride	54	< 3.0	< 2.9	< 3.0	< 2.9	< 3.3	< 3.0	< 3.0	< 3.3	< 3.2	< 3.0	< 3.2	< 2.9	< 2.8	< 3.2	< 3.0	< 3.2	< 3.2	NA	< 3.0	< 2.9	< 2.8	< 2.9	< 3.2	< 3.2	< 2.9	< 3.2	< 3.2

Location:	Residential RIASL	SVMP-28									SVMP-29	SVMP-30	SVMP-31	SVMP-32		SVMP-33	SVMP-34	SVMP-35	SVMP-36	SVMP-37	
		3									3.5	7.5	4	5.5	3	6	4	4	4	4	2.5
		6/19/2017	9/21/2017	11/21/2017	2/21/2018	5/29/2018	8/23/2018	11/6/2018	3/21/2019	6/24/2019	6/14/2017	6/14/2017	6/14/2017	6/14/2017	6/15/2017	6/15/2017	6/15/2017	6/15/2017	6/15/2017	6/16/2017	6/16/2017
VOCs (Method TO-15) µg/m³																					
1,1-Dichloroethene	7,000	NA	< 4.8	< 4.6	< 4.3	< 5.2	< 4.7	< 4.7	< 5.0	< 5.1	NA										
1,4-Dioxane	170	NA	< 17	< 17	< 16	< 19	< 17	< 17	< 18	< 18	NA										
cis-1,2-Dichloroethene	280	NA	< 4.8	< 4.6	< 4.3	< 5.2	< 4.7	< 4.7	< 5.0	< 5.1	NA										
Tetrachloroethene	1,400	NA	25	< 7.9	< 7.3	< 8.9	8.9	< 8.1	< 8.5	1.3 J	NA										
trans-1,2-Dichloroethene	2,800	NA	< 4.8	< 4.6	< 4.3	< 5.2	< 4.7	< 4.7	< 5.0	< 5.1	NA										
Trichloroethene	67	< 6.1	< 6.5	< 6.3	< 5.8	< 7.1	< 6.3	< 6.4	< 6.7	< 6.9	< 6.3	< 6.0	31	< 6.1	< 6.4	< 6.5	< 6.5	< 6.3	< 6.9	< 6.2	< 6.2
Vinyl Chloride	54	< 2.9	< 3.1	< 3.0	< 2.8	< 3.4	< 3.0	< 3.0	< 3.2	< 3.3	< 3.0	< 2.8	< 2.9	< 2.9	< 3.0	< 3.1	< 3.1	< 3.0	< 3.3	< 2.9	< 3.0

See Notes on Last Page.

Notes:

The residential RIASLs apply to a residential structure with a basement.

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

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

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

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

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

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

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

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

SVMP-03S was not sampled during the March 2019 sampling event due to technical difficulties with the canister.

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

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

Bold Concentration was detected above reporting limit.

Abbreviations:

< denotes not detected above reporting limit

µg/m³ micrograms per cubic meter

ft. bgs feet below ground surface

J reported value is estimated

NA not analyzed

NS not sampled

RIASL recommended interim action screening levels

SVMP soil vapor monitoring point

VOC volatile organic compound

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

CITY: NOVI DIV: ENV DB: MG PIC: R. ELLIS PM: K. HINSKEY TM: R. WISMAN TR: M. WACKSMAN PROJECT NUMBER: M001454.0007.0004 COORDINATE SYSTEM: NAD 1983 StatePlane Michigan South FIPS 2113 Feet Z:\GIS\Projects\ENV\Novi\Brighton_MinFord\GIS\docs\GEO2Q_2019\Figure 15 - Off-Site SVMP VC.mxd PLOTTED: 7/28/2019 10:39:15 PM BY: Sharmayh4948

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LEGEND

- PROPERTY BOUNDARIES
- FORD PROPERTY BOUNDARY
- OFF-SITE SVMP VINYL CHLORIDE < 54 µg/m³
- OFF-SITE SVMP NOT SAMPLED FOR VINYL CHLORIDE

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

µg/m₃ - MICROGRAMS PER CUBIC METER
 THE EGLE PROVIDED RESIDENTIAL VOLATILIZATION TO INDOOR AIR SOIL VAPOR SCREENING LEVEL FOR VINYL CHLORIDE IS 54 µg/m₃
 EGLE = MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

FT = FEET BELOW GROUND SURFACE
 "ND", "<" = NON-DETECT INDICATES VALUE IS BELOW THE LABORATORY REPORTING LIMIT FOR VINYL CHLORIDE.

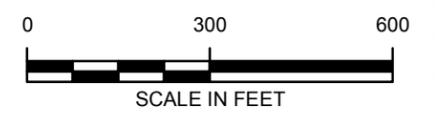
SVMP = SOIL VAPOR MONITORING POINT
 SVMP-29 THROUGH 37 WERE NOT SAMPLED DURING THE AUGUST 2018, NOVEMBER 2018, MARCH 2019 OR JUNE 2019 SAMPLING EVENTS.

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

SVMP-13 THROUGH SVMP-17, AND SVMP-19 THROUGH SVMP-21 WERE NOT SAMPLED DURING THE NOVEMBER 2018 SAMPLING EVENT DUE TO SATURATED SCREENS.

SVMP-10, SVMP-13, SVMP-15, SVMP-16, SVMP-20, AND SVMP-23 WERE NOT SAMPLED DURING THE MARCH 2019 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-03S WAS NOT SAMPLED DURING MARCH 2019 SAMPLING EVENT DUE TO TECHNICAL DIFFICULTIES WITH THE CANISTER.

SVMP-10, SVMP-13, SVMP-14, SVMP-15, SVMP-16, SVMP-19, AND SVMP-20 WERE NOT SAMPLED DURING THE JUNE 2019 SAMPLING EVENT DUE TO SATURATED SCREENS. SVMP-26 WAS CANCELLED DUE TO HIGH CANISTER VACUUM READINGS.



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 LIVONIA TRANSMISSION PLANT
 LIVONIA, MICHIGAN

**OFF-SITE VAPOR INTRUSION ASSESSMENT
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