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## MEMORANDUM

To: Abby Hendershott, MDEQ

From: Leslie Nelson, Rose & Westra, a Division of GZA GeoEnvironmental, Inc.

Date: September 30, 2018

File No.: 16.0062335.02 Task 002

Re: Wolverine World Wide, Inc. (Wolverine) – Former Tannery – Monthly Progress Report

This Monthly Progress Report (MPR) is being provided at the request of the MDEQ to support the June 18, 2018 Source Investigation Task Summary (SITS) in response DEQ's request for regular progress updates.

This MPR summarizes the progress for the period of August 25, 2018 to September 21, 2018. This includes actions performed, problems encountered, analytical data received during the reporting period, and anticipated developments during the next reporting period.

### ACTIONS PERFORMED

- 1) August 27: Measured static water levels in on-Site monitoring wells and piezometers. This work was and will continue to be completed under the scope of work outlined in Section 3.2.6 of the RWP.
- 2) August 28: Collected a groundwater sample from TA-GW-09. This work was and will continue to be completed under the scope of work outlined in Section 3.2.6 of the RWP.
- 3) August 16 to September 14: Data management and evaluation of incoming data along with beginning work on the field investigation sections of the report.

Tables A, B, C, D, and E summarize the sediment, soil, soil gas, surface water, and groundwater samples collected to date. Figure 1 presents the completed locations. Sediment core logs are attached. A set of boring logs are also attached.

### ANALYTICAL DATA RECEIVED

The PFAS data received through September 16, 2018 is summarized in Tables 1 through 4. The table below summarizes the statistics for the samples collected and PFAS results received to date:





Matrix	Samples Collected	PFAS analytical Results Received	Total PFOA/PFOS Detections	>Generic GSIP (soil only) for PFOS	> Generic GSI or DW (groundwater only) for PFOS	> Rule 57 Surface Water Value (Surface water only) for PFOS
Sediment	105	105	40	NA	NA	NA
Soil	235	123	106	104	NA	NA
Surface Water	7	7	4	NA	NA	4
Groundwater	56	16	12	NA	10	NA

## ANTICIPATED ACTIONS AND SCHEDULE FOR NEXT REPORTING PERIOD

During the next reporting period, September 23, 2018 through October 24, 2018, R&W/GZA anticipates completing and/or continuing to conduct the following tasks.

- 1) Collect the second round of surface water samples;
- 2) Conduct additional stream flow monitoring and gauging of Rum Creek;
- 3) Survey of the newly installed groundwater monitoring wells; and,
- 4) Continue the data evaluation of sediment, soil, groundwater and surface water data once complete data sets are received from the laboratories.

Additionally, the remaining boring logs, and monitoring well installation logs will be completed. We anticipate the remaining data from the soil and groundwater sampling will be received during the next period.

## IDENTIFIED PROBLEMS AND RESOLUTIONS

None.

## APPROVED SCOPE MODIFICATIONS

None.







**Table B**  
**Soil Sampling Locations Completed**

Location ID	Expl Depth (ft)	Lab Sample S1 (ft)	Lab Sample S2 (ft)	Lab Sample S3 (ft)	Start Date	End Date	Date Samples Sent to Lab	XRF Results for Samples Analyzed															Additional Notes	
								PID Reading for Samples Analyzed			As			Cr			Hg			Pb				
								S1	S2	S3	S1	S2	S3	S1	S2	S3	S1	S2	S3	S1	S2	S3		
TA-SB-AOC-B-01	2	(2-3)	(7-8)		12-Jul-18	18-Jul-18	1-Aug-18	2.0	1.5		2.8	<LOD		42	28		<LOD	<LOD		10.7	10.1			
TA-SB-AOC-B-02	8	(2-3)	(4-5)		12-Jul-18	12-Jul-18	1-Aug-18	22.7	23.4		<LOD	<LOD		111	29		<LOD	<LOD		16.8	11.6			
TA-SB-AOC-C-01	12	(2-3)	(11-12)		23-Jul-18	23-Jul-18	23-Jul-18	26.9	1.8		7.3	2.4		109	586		<LOD	<LOD		24.7	11			
TA-SB-AOC-C-02	12	(2-3)	(9-10)		23-Jul-18	23-Jul-18	2-Aug-18	205.6	2.5		2.4	3.1		3288	1397		<LOD	<LOD		13.9	9.6			
TA-SB-AOC-D-01	3.3	(2-3)	(8-9)		12-Jul-18	18-Jul-18	1-Aug-18	0.6	1.0		3.4	2.4		26	45		<LOD	<LOD		8.1	6.3			
TA-SB-AOC-D-02	8	(2-3)	(6-7)		12-Jul-18	12-Jul-18	1-Aug-18	11.5	16.4		<LOD	2.7		42	29		<LOD	<LOD		13.1	11.8			
TA-SB-AOC-E-01	16	(3-4)	(10-11)		24-Jul-18	1-Aug-18	1-Aug-18	1.8	1.9		<LOD	<LOD		641	30		6.2	3.4		436	8.2			
TA-SB-AOC-E-02	16	(5-6)	(10-11)		24-Jul-18	1-Aug-18	1-Aug-18	0.9	1.2		<LOD	14.7		11	74		<LOD	3.2		5.4	19.4			
TA-SB-AOC-G-01	8	(1-2)	(5-6)		11-Jul-18	23-Jul-18	23-Jul-18	1.1	1.2		19.7	5.3		402	68		10.2	<LOD		151	36.8			
TA-SB-AOC-G-02	8	(1-2)	(6-7)		11-Jul-18	23-Jul-18	23-Jul-18	0.9	1.1		22.2	4.3		975	132		9.9	<LOD		160	29.2			
TA-SB-AOC-H-01	8	(2-3)	(4-5)		9-Jul-18	10-Jul-18	10-Jul-18	0.4	0.3		9.2	2.4		205	129		2.6	<LOD		37.2	17.2			
TA-SB-AOC-H-02	12	(2-3)	(6-7)		9-Jul-18	10-Jul-18	10-Jul-18	ND	0.2		18.3	<LOD		233	48		3.5	<LOD		93.8	10.9			
TA-SB-AOC-H-03	5.58	(2-2.5)	(5-6)		9-Jul-18	10-Jul-18	10-Jul-18	3.7	1.3		513	3.9		9371	118		2.5	<LOD		14739	41.2			
TA-SB-AOC-J-01	8	(2-3)	(5-6)		12-Jul-18	1-Aug-18	1-Aug-18	14.9	13.2		4.4	5		35	40		<LOD	<LOD		57.4	10			
TA-SB-AOC-J-02	8	(9-10)	(13-14)		12-Jul-18	1-Aug-18	1-Aug-18	0.6	1.4		<LOD	5.5		263	41		<LOD	<LOD		8.9	10.5			
TA-SB-MA-01	16	(7-8)	(11-12)		25-Jul-18	1-Aug-18	1-Aug-18	1.7	1.8		6.3	33.8		690	41		<LOD	<LOD		54.9	11.3			
TA-SB-MA-02	16	(7-8)	(11-12)		25-Jul-18	1-Aug-18	1-Aug-18	0.9	3.5		32	3.5		5850	24		<LOD	<LOD		283	8.6			
TA-SB-MA-03	16	(11-12)	(13-14)		25-Jul-18	2-Aug-18	2-Aug-18	6.1	2.4		10.3	6.6		39	34		<LOD	<LOD		7.9	9.6			
TA-SB-MA-04	15	(8-9)	(10-11)		6-Aug-18	8-Aug-18	8-Aug-18	5.9	6.4		209	125.7		1126	571		<LOD	<LOD		19	27			
TA-SB-MA-05	16				27-Jul-18		0-Jan-00																	
TA-SB-GW01	8	(2-3)	(6-7)		25-Jun-18	28-Jun-18	28-Jun-18	0.7	NM		3.8	NM		433	NM		<LOD	NM		41.1	NM		Lab IDs are "MW-".	
TA-SB-GW02	12	(1-2)	(4-5)		27-Jun-18	29-Jun-18	29-Jun-18	0.3	0.1		11.4	9.1		58	60		<LOD	<LOD		40.9	23.1		MS/MSD Samples; Lab IDs are "MW-".	
TA-SB-GW03	10	(2-3)	(7-8)		24-Jul-18	2-Aug-18	2-Aug-18	1.1	2.4		56	24		712	393		<LOD	<LOD		1429	595			
TA-SB-GW04	10	(1-2)	(5-6)		26-Jun-18	29-Jun-18	8-Aug-18	0.3	0.3		19.1	3.4		528	84		1.2	<LOD		149	16.4		Lab IDs are "MW-".	
TA-SB-GW05	8	(1-2)	(4-5)		28-Jun-18	2-Jul-18	2-Jul-18	0.2	0.1		15.1	7.9		155	207		4.1	1.2		69.1	49.9		EQB Split Spoon; Lab IDs are "MW-".	
TA-SB-GW06	8	(2-3)	(4-5)		26-Jun-18	29-Jun-18	29-Jun-18	2.5	5.0		24.7	13.7		1350	371		<LOD	<LOD		210	156		Lab IDs are "MW-".	
TA-SB-GW07	8	(4-5)	(6-7)		26-Jun-18	28-Jun-18	28-Jun-18	0.2	0.2		1.9	6.6		34	46		<LOD	<LOD		10.3	14.3		Lab IDs are "MW-".	
TA-SB-GW08	8	(2-3)	(5-6)		26-Jun-18	29-Jun-18	29-Jun-18	0.5	0.5		<LOD	<LOD		33	18		<LOD	<LOD		45.4	118.4		Lab IDs are "MW-".	

**Table C**  
**Soil Gas Sampling Locations**

Location ID	Depth (ft)	Sample Screen Interval	Install Date	Sample Date
TA-SG-01	5	(3-3.5)	7/16/18	8/7/18
TA-SG-02	10	(4.5-5)	7/17/18	8/7/18
TA-SG-03	5	(3.5-4)	7/18/18	8/7/18
TA-SG-04	5	(3.5-4)	7/17/18	8/8/18
TA-SG-05	8.5	(4-4.5)	7/19/18	8/7/18
TA-SG-06	5	(4-4.5)	7/19/18	8/7/18
TA-SG-07	10	(4.5-5)	7/25/18	8/7/18
TA-SG-08	10	(4.5-5)	7/25/18	8/7/18
TA-SG-09	15	(9.5-10)	7/25/18	8/7/18
TA-SG-10	11	(9.5-10)	7/25/18	8/7/18

**Table D**  
**Surface Water Sampling Locations Completed**

Sample Location	Start Date	End Date	Date Samples Sent to Lab	Additional Notes
TA-SW-01	25-Jul-18	25-Jul-18	25-Jul-18	DUP
TA-SW-02	24-Jul-18	24-Jul-18	24-Jul-18	
TA-SW-03	24-Jul-18	24-Jul-18	24-Jul-18	
TA-SW-04	24-Jul-18	24-Jul-18	24-Jul-18	
TA-SW-05	26-Jul-18	26-Jul-18	26-Jul-18	
TA-SW-06	25-Jul-18	25-Jul-18	25-Jul-18	MS/MSD
TA-SW-07	25-Jul-18	25-Jul-18	25-Jul-18	

**Table E**  
**Groundwater Sampling Locations Completed**

Sample Location	Sample Date	Date Samples Sent to Lab	Additional Notes
TA-GW-01	8/14/18	8/14/18	
TA-GW-02	8/13/18	8/13/18	
TA-GW-03	8/14/18	8/14/18	
TA-GW-04	8/14/18	8/14/18	
TA-GW-05	8/14/18	8/14/18	
TA-GW-06	8/14/18	8/14/18	
TA-GW-07	8/13/18	8/13/18	
TA-GW-08	8/14/18	8/14/18	
TA-GW-09	8/28/18	8/28/18	PFAS sample collected 8/27/18, well pumped dry
TMW-101	8/13/18	8/13/18	
TMW-102	8/13/18	8/13/18	
TMW-103	8/8/18	8/8/18	
TMW-104	8/8/18	8/8/18	
TMW-105	8/10/18	8/10/18	
TMW-108	8/9/18	8/9/18	
TMW-109	8/8/18	8/8/18	
TMW-110	8/9/18	8/9/18	
TMW-111	8/8/18	8/8/18	
TN-MW-1	8/8/18	8/8/18	
TN-MW-2	8/10/18	8/10/18	
TN-MW-3	8/8/18	8/8/18	
TN-MW-301B	8/10/18	8/10/18	
TN-MW-301C	8/13/18	8/13/18	
TN-MW-301D	8/7/18	8/7/18	
TN-MW-302A	8/13/18	8/13/18	
TN-MW-302B	8/9/18	8/9/18	TA-MW-302B DUP
TN-MW-303A	8/13/18	8/13/18	
TN-MW-303B	8/10/18	8/10/18	
TN-MW-303C	8/10/18	8/10/18	
TN-MW-303D	8/7/18	8/7/18	
TN-MW-303E	8/7/18	8/7/18	TA-MW-303E DUP
TN-MW-304A	8/15/18	8/15/18	
TN-MW-304B	8/8/18	8/8/18	
TN-MW-305B	8/10/18	8/10/18	
TN-MW-305C	8/13/18	8/13/18	
TN-MW-306A	8/9/18	8/9/18	
TN-MW-306B	8/9/18	8/9/18	
TN-MW-307A	8/9/18	8/9/18	
TN-MW-307B	8/9/18	8/9/18	MS/MSD
TN-MW-308A	8/10/18	8/10/18	
TN-MW-308B	8/7/18	8/7/18	
TN-MW-308C	8/7/18	8/7/18	
TN-MW-309A	8/9/18	8/9/18	MS/MSD
TN-MW-309B	8/10/18	8/10/18	TA-MW-309B DUP
TN-MW-309C	8/13/18	8/13/18	
TN-MW-309D	8/10/18	8/10/18	
TN-MW-310A	8/8/18	8/8/18	MS/MSD
TN-MW-310B	8/8/18	8/8/18	
TN-MW-310C	8/7/18	8/7/18	
TN-MW-4	8/13/18	8/13/18	
TN-MW-5	8/9/18	8/9/18	
TN-P-1	8/14/18	8/14/18	
TN-P-2	8/14/18	8/14/18	
TN-P-3	8/14/18	8/14/18	
TN-P-4	8/15/18	8/15/18	
TN-P-5	8/15/18	8/15/18	

TABLE 1  
SUMMARY OF SEDIMENT SAMPLE ANALYSIS - PFAS  
Former Tannery  
Rockford, Michigan

Sample Location	MDEQ PART 201 GENERIC SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-BOAT RAMP	TA-SED-BOAT RAMP	TA-SED-EAST DAM	TA-SED-RC ACCESS	TA-SED-RC-1	TA-SED-RC-1	TA-SED-RC-2	TA-SED-RC-2	TA-SED-RC-2	TA-SED-RC-3	TA-SED-T10-1	TA-SED-T10-1	TA-SED-T10-1	TA-SED-T10-1	TA-SED-T10-3	TA-SED-T10-3	TA-SED-T10- ISLAND	TA-SED-T10- ISLAND	
Sample Name	TA-SED-BOAT RAMP (0-1)	TA-SED-BOAT RAMP (0-0.5)	TA-SED-RC ACCESS (0-1)	TA-SED-RC ACCESS (1.5-2.5)	TA-SED-RC-1 (0-1)	TA-SED-RC-1 (1.2- 2.2)	TA-SED-RC-2 (0-1)	TA-SED-RC-2 (1-2)	TA-SED-RC-2 (2-3)	TA-SED-RC-3 (0- 0.4)	TA-SED-T10-1 (0- 1)	TA-SED-T10-1 (1.5-2.5)	TA-SED-T10-1DUP (1.5-2.5)	TA-SED-T10-1 (3- 4)	TA-SED-T10-3 (0- 1)	TA-SED-T10-3 (1- 2)	TA-SED-T10-1 (0-1)	TA-SED-T10-3 (1- 2)		
Sample Depth (Feet)	0 - 1	1 - 1.9	0 - 0.5	0 - 1	1.5 - 2.5	0 - 1	1.2 - 2.2	0 - 1	1 - 2	2 - 3	0 - 0.4	0 - 1	1.5 - 2.5	1.5 - 2.5	3 - 4	0 - 1	1 - 2	0 - 1	2 - 3	
Sample Date	7/2/2018	7/2/2018	7/23/2018	7/2/2018	7/2/2018	7/2/2018	7/2/2018	7/2/2018	7/2/2018	7/2/2018	6/29/2018	6/29/2018	6/29/2018	6/29/2018	6/29/2018	6/29/2018	7/23/2018	7/23/2018		
Parameter (ug/kg)																				
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<3.9	<1.9	<1.1	<1.7	<1.6	<1.4	<2.8	<1.1	<1.2	<1.1	<2.6	<1.4	<1.2	<2.5	<3	<1.7	<1.5	<1.7	
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<3.9	<1.9	<1.1	<1.7	<1.6	<1.4	<2.8	<1.1	<1.2	<1.1	<2.6	<1.4	<1.2	<2.5	<3	<1.7	<1.5	<1.7	
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<3.9	<1.9	<1.1	<1.7	<1.6	<1.4	<2.8	<1.1	<1.2	<1.1	<2.6	<1.4	<1.2	<2.5	<3	<1.7	<1.5	<1.7	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<3.9	<1.9	<1.1	<1.7	<1.6	<1.4	<2.8	<1.1	<1.2	<1.1	<2.6	<1.4	<1.2	<2.5	<3	<1.7	<1.5	<1.7	
Perfluoro-1-butanesulfonate (PFBS)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	3.7	<0.54	0.56	1.2	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-n-butyanoic acid (PFBa)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-n-decanoic acid (PFDA)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.87	
Perfluoro-n-dodecanoic acid (PFDoA)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.87	
Perfluoro-1-heptanesulfonate (PFHps)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	1.1	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-n-heptoanoic acid (PFHpa)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	2.1	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluorohexanesulfonate (PFHxS)	NA	<2	<0.94	<0.57	<0.86	1.2	<0.68	9.4	<0.54	0.89	1.2	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-n-hexanoic acid (PFHxA)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	2.1	<0.54	<0.54	0.79	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-n-nonanoic acid (PFNA)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	0.78	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	6.5	<0.86	<0.74	
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<b>14</b>	<b>4.9</b>	<b>6.8</b>	<b>25</b>	<0.81	<b>1.9</b>	<b>22</b>	<b>0.77</b>	<b>45</b>	<b>130</b>	<b>3</b>	<b>1.3</b>	<0.69	<0.61	<1.3	<b>35</b>	<b>2</b>	<b>20</b>	<b>14</b>
Perfluoro-n-octanoic acid (PFOA)	10,000	<2	<0.94	<0.57	1.3	4	<0.68	13	<0.54	3.4	4.8	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	1.3	<0.87
Perfluoro-n-pentanoic acid (PFPeA)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-n-undecanoic acid (PFUdA)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-1-decanesulfonate (PFDS)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-1-nananesulfonate (PFNS)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<2	<0.94	<0.57	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54	<0.6	<0.53	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86	<0.74	

**TABLE 1**  
**SUMMARY OF SEDIMENT SAMPLE ANALYSIS - PFAS**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T10-ISLAND	TA-SED-T1-1	TA-SED-T1-1	TA-SED-T1-3	TA-SED-T1-3	TA-SED-T2-1	TA-SED-T2-1	TA-SED-T2-1	TA-SED-T2-2	TA-SED-T2-2	TA-SED-T2-2	TA-SED-T2-2	TA-SED-T2-3	TA-SED-T2-3	TA-SED-T2-3	TA-SED-T3-1A	TA-SED-T3-1A	TA-SED-T3-1A	TA-SED-T3-2
Sample Name		TA-SED-T10-ISLAND(4-5)	TA-SED-T1-1 (0-1)	TA-SED-T1-1 (0-1)	TA-SED-T1-3 (0-1)	TA-SED-T1-3 (0-1)	TA-SED-T2-1 (0-1)	TA-SED-T2-1 (2-3)	TA-SED-T2-1 (4-5)	TA-SED-T2-2 (0-1)	TA-SED-T2-2DUP (0-1)	TA-SED-T2-2 (2-3)	TA-SED-T2-2 (4-5)	TA-SED-T2-3 (0-1)	TA-SED-T2-3 (2-3)	TA-SED-T2-3 (4-5)	TA-SED-T3-1A (0-1)	TA-SED-T3-1A (2-3)	TA-SED-T3-1A (5-6)	TA-SED-T3-2 (0-1.2)
Sample Depth (Feet)		4 - 5	0 - 1	0 - 1	0 - 1	0 - 1	2 - 3	4 - 5	0 - 1	0 - 1	2 - 3	4 - 5	0 - 1	2 - 3	4 - 5	0 - 1	2 - 3	5 - 6	0 - 1.2	
Sample Date		7/23/2018	7/24/2018	7/24/2018	7/24/2018	6/22/2018	6/22/2018	6/22/2018	6/25/2018	6/25/2018	6/25/2018	6/25/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/21/2018	
Parameter (ug/kg)																				
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.3	<1.4	<1.1	<1.2	<1.1	7.6	<1.7	<1.5	<1.2	<0.97	<0.97	<1.2	<1.1	<1.6	<1.2	<3.5	<1.7	<1.2	<0.98
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.3	<1.4	<1.1	<1.2	<1.1	<1.9	<1.7	<1.5	<1.2	<0.97	<0.97	<1.2	<1.1	<1.6	<1.2	<3.5	<1.7	<1.2	<0.98
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.3	<1.4	<1.1	<1.2	<1.1	<1.9	<1.7	<1.5	<1.2	<0.97	<0.97	<1.2	<1.1	<1.6	<1.2	<3.5	<1.7	<1.2	<0.98
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.3	<1.4	<1.1	<1.2	<1.1	<1.9	<1.7	<1.5	<1.2	<0.97	<0.97	<1.2	<1.1	<1.6	<1.2	<3.5	<1.7	<1.2	<0.98
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-n-butanoic acid (PFBa)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-n-decanoic acid (PFDA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-n-dodecanoic acid (PFDoA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-1-heptanesulfonate (PFHpS)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluorohexanesulfonate (PFHxS)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluorohexanoic acid (PFHxA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluorono-n-nonanoic acid (PFNA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
<b>Perfluoroctanesulfonate (PFOS)</b>	0.24	<0.64	<b>1.4</b>	<0.55	<0.62	<0.55	<b>1.1</b>	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<b>3</b>	<0.86	<0.58	<0.49
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoroundecanoic acid (PFUdA)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-1-nananesulfonate (PFNS)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<0.64	<0.69	<0.55	<0.62	<0.55	<0.96	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49

**TABLE 1**  
 SUMMARY OF SEDIMENT SAMPLE ANALYSIS - PFAS  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 GENERIC SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T3-2	TA-SED-T3-2	TA-SED-T3-2	TA-SED-T3-3	TA-SED-T3-3	TA-SED-T4-1	TA-SED-T4-1	TA-SED-T4-1	TA-SED-T4-2	TA-SED-T4-2	TA-SED-T4-2	TA-SED-T4-3	TA-SED-T4-3	TA-SED-T4- ISLAND	TA-SED-T4- ISLAND	TA-SED-T5-1	TA-SED-T5-1	
Sample Name	TA-SED-T3-2 (1.7- 2.7)	TA-SED-T3-2 (4.5)	TA-SED-T3-2 (6.2- 7.2)	TA-SED-T3-3 (0-1)	TA-SED-T3-3 (2-3)	TA-SED-T3-3 (5-6)	TA-SED-T4-1 (0-1)	TA-SED-T4-1 (2.5- 3.5)	TA-SED-T4-1 (3.5- 4.5)	TA-SED-T4-2 (0-1)	TA-SED-T4-2 (1-2)	TA-SED-T4-2 (2-3)	TA-SED-T4-3 (0-1)	TA-SED-T4-3 (1- 1.7)	TA-SED-T4- ISLAND(0-0.5)	TA-SED-T4- ISLAND(4-5)	TA-SED-T5-1 (0-1)	TA-SED-T5-1 (1-2)	
Sample Depth (Feet)	1.7 - 2.7	4 - 5	6.2 - 7.2	0 - 1	2 - 3	5 - 6	0 - 1	2.5 - 3.5	3.5 - 4.5	0 - 1	1 - 2	2 - 3	0 - 1	1 - 1.7	0 - 0.5	4 - 5	6 - 7	0 - 1	
Sample Date	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/25/2018	6/25/2018	6/25/2018	6/29/2018	6/29/2018	6/29/2018	7/2/2018	7/2/2018	7/11/2018	7/12/2018	7/12/2018	6/25/2018	6/25/2018	
Parameter (ug/kg)																			
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<2.3	<1.5	<1.7	<2.1	<2	<1.7	<1	<1.4	<1.1	<5.6	<2.4	<1.7	<8.6	<4.5	<4.5	<2.2	<0.86	<0.97
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<2.3	<1.5	<1.7	<2.1	<2	<1.7	<1	<1.4	<1.1	<5.6	<2.4	<1.7	<8.6	<4.5	<4.5	<2.2	<0.86	<0.97
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<2.3	<1.5	<1.7	<2.1	2.7	<1.7	<1	<1.4	<1.1	<5.6	3	<1.7	<8.6	4.8	<4.5	<2.2	<0.86	<0.97
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<2.3	<1.5	<1.7	<2.1	<2	<1.7	<1	<1.4	<1.1	<5.6	<2.4	<1.7	<8.6	<4.5	<4.5	<2.2	<0.86	<0.97
Perfluoro-1-butanesulfonate (PFBS)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	1.5	3.6	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-n-butyanoic acid (PFBa)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-n-decanoic acid (PFDA)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-n-dodecanoic acid (PFDoA)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-1-heptanesulfonate (PFHpS)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	1.2	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-n-heptoanoic acid (PFHpA)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	1.9	2.7	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluorohexanesulfonate (PFHxS)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	3.7	6.8	5.5	3.6	<2.2	<1.1	<0.43	<0.48
Perfluoro-n-hexanoic acid (PFHxA)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	1.4	2.4	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-n-nonanoic acid (PFNA)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<1.2	<0.74	<0.86	<1.1	1.1	<0.84	<0.52	<0.68	<0.56	<2.8	5.8	<0.84	10	20	<2.2	<1.1	<0.43	<0.48
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<1.2	<0.74	<0.86	2.2	1.9	<0.84	<0.52	2	<0.56	78	44	24	170	62	55	4.1	<0.43	<0.48
Perfluoro-n-octanoic acid (PFOA)	10,000	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	4	10	22	17	8.7	3.7	1.5	<0.43	<0.48
Perfluoro-n-pentanoic acid (PFPeA)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-n-undecanoic acid (PFUdA)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-1-decanesulfonate (PFDS)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-1-nananesulfonate (PFNS)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<1.2	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68	<0.56	<2.8	<1.2	<0.84	<4.3	<2.2	<2.2	<1.1	<0.43	<0.48

**TABLE 1**  
**SUMMARY OF SEDIMENT SAMPLE ANALYSIS - PFAS**  
Former Tannery  
Rockford, Michigan

Sample Location	MDEQ PART 201 GENERIC SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T5-2	TA-SED-T5-2	TA-SED-T5-2	TA-SED-T5-3	TA-SED-T5-3	TA-SED-T5-3	TA-SED-T6-1	TA-SED-T6-1	TA-SED-T6-1	TA-SED-T6-2	TA-SED-T6-2	TA-SED-T6-2	TA-SED-T6-3	TA-SED-T6-3	TA-SED-T6-3	TA-SED-T7-1	TA-SED-T7-1	TA-SED-T7-1	
Sample Name	TA-SED-T5-2 (0-1)	TA-SED-T5-2 (1.7-2.7)	TA-SED-T5-2 (3.7-4.7)	TA-SED-T5-3 (0-1)	TA-SED-T5-3 (2-3)	TA-SED-T5-3 (4-5)	TA-SED-T5-3 (6-7)	TA-SED-T6-1 (0-1)	TA-SED-T6-1 (2.5-3.5)	TA-SED-T6-1 (4.1-5.1)	TA-SED-T6-2 (0-1)	TA-SED-T6-2 (2-3)	TA-SED-T6-2 (3.6-4.6)	TA-SED-T6-3 (0-1)	TA-SED-T6-3 (2-3)	TA-SED-T6-3 (3.8-4.8)	TA-SED-T7-1 (0-1)	TA-SED-T7-1 (2-3)	TA-SED-T7-1 (4.2-5.2)	
Sample Depth (Feet)	0 - 1	1.7 - 2.7	3.7 - 4.7	0 - 1	2 - 3	4 - 5	6 - 7	0 - 1	2.5 - 3.5	4.1 - 5.1	0 - 1	2 - 3	3.6 - 4.6	0 - 1	2 - 3	3.8 - 4.8	0 - 1	2 - 3	4.2 - 5.2	
Sample Date	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/26/2018	6/27/2018	6/27/2018	6/27/2018	6/26/2018	6/26/2018	6/26/2018	6/27/2018	6/27/2018	6/27/2018	
Parameter (ug/kg)																				
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1	<0.97	<1.3	<1.7	<1.1	<1.5	<1.3	<1.8	<1.3	<0.99	<0.98	<1.6	<1.2	<1.3	<1.8	<0.9	<1.7	<1.4	
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1	<0.97	<1.3	<1.7	<1.1	<1.5	<1.3	<1.8	<1.3	<1.4	<0.99	<0.98	<1.6	<1.2	<1.3	<1.8	<0.9	<1.7	<1.4
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1	<0.97	<1.3	<1.7	<1.1	<1.5	<1.3	<1.8	<1.3	<1.4	<0.99	<0.98	<1.6	<1.2	<1.3	<1.8	<0.9	<1.7	<1.4
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1	<0.97	<1.3	<1.7	<1.1	<1.5	<1.3	<1.8	<1.3	<1.4	<0.99	<0.98	<1.6	<1.2	<1.3	<1.8	<0.9	<1.7	<1.4
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-butyric acid (PFBa)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-decanoic acid (PFDA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-dodecanoic acid (PFDoA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-1-heptanesulfonate (PFHpS)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluorohexanesulfonate (PFHxS)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-nonanoic acid (PFNA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.5	<0.48	<0.66	<b>1.3</b>	<0.53	<0.76	<0.66	<b>1.2</b>	<0.64	<0.68	<0.49	<0.49	<0.81	<b>1.2</b>	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-pentanoic acid (PPeA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-1-nananesulfonate (PFNS)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69
Perfluoro-1-pentanesulfonate (PPPeS)	NA	<0.5	<0.48	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64	<0.68	<0.49	<0.49	<0.81	<0.62	<0.67	<0.88	<0.45	<0.87	<0.69

**TABLE 1**  
SUMMARY OF SEDIMENT SAMPLE ANALYSIS - PFAS  
Former Tannery  
Rockford, Michigan

Sample Location	MDEQ PART 201 GENERIC SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T7-1	TA-SED-T7-2	TA-SED-T7-2	TA-SED-T7- ISLAND	TA-SED-T7- ISLAND	TA-SED-T7- ISLAND	TA-SED-T7- ISLAND	TA-SED-T8-1	TA-SED-T8-1	TA-SED-T8-1	TA-SED-T8-2	TA-SED-T8-2	TA-SED-T8-2	TA-SED-T8-3	TA-SED-T8-3	TA-SED-T8-3	TA-SED-T9-1	TA-SED-T9-1	
Sample Name	TA-SED-T7-1 (6.4- 7.4)	TA-SED-T7-2 (0-1)	TA-SED-T7-2 (1-2)	TA-SED-T7- ISLAND (0-0.5)	TA-SED-T7- ISLAND (1-2)	TA-SED-T7- ISLAND (3-4)	TA-SED-T7- ISLAND (6-7)	TA-SED-T8-1 (0-1)	TA-SED-T8-1 (1.5- 2.5)	TA-SED-T8-1 (4-5)	TA-SED-T8-1 (0-1)	TA-SED-T8-2 (1-2)	TA-SED-T8-2 (3- 4.1)	TA-SED-T8-2 (0-1)	TA-SED-T8-3 (1.5- 2.5)	TA-SED-T8-3 (0-1)	TA-SED-T8-3 (1.5- 2.5)	TA-SED-T8-3 (3-4)	TA-SED-T9-1 (0-1)	TA-SED-T9-1 (2-3)
Sample Depth (Feet)	6.4 - 7.4	0 - 1	1 - 2	0 - 0.5	1 - 2	3 - 4	6 - 7	0 - 1	1.5 - 2.5	4 - 5	0 - 1	1 - 2	3 - 4.1	0 - 1	1.5 - 2.5	1.5 - 2.5	3 - 4	0 - 1	2 - 3	
Sample Date	6/27/2018	6/27/2018	6/27/2018	7/9/2018	7/13/2018	7/13/2018	7/13/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/29/2018	6/29/2018		
Parameter (ug/kg)																				
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.3	<3.6	<2.3	<1.5	<1.6	<1.8	<1.4	<2.8	<1.8	<1.4	<1.3	<1.5	<1.4	<1.7	<2.9	<1.9	<1.8	<3.3	<1.8
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.3	<3.6	<2.3	<1.5	<1.6	<1.8	<1.4	<2.8	<1.8	<1.4	<1.3	<1.5	<1.4	<1.7	<2.9	<1.9	<1.8	<3.3	<1.8
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.3	<3.6	<2.3	<1.5	<1.6	<1.8	<1.4	<2.8	<1.8	<1.4	<1.3	<1.5	<1.4	<1.7	<2.9	<1.9	<1.8	<3.3	<1.8
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.3	<3.6	<2.3	<1.5	<1.6	<1.8	<1.4	<2.8	<1.8	<1.4	<1.3	<1.5	<1.4	<1.7	<2.9	<1.9	<1.8	<3.3	<1.8
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.66	<1.8	1.8	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-n-butyric acid (PFBa)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-n-decanoic acid (PFDA)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-n-dodecanoic acid (PFDoA)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-1-heptanesulfonate (PFHpS)	NA	<0.66	<1.8	1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.66	<1.8	2.4	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluorohexanesulfonate (PFHxS)	NA	<0.66	<1.8	2.6	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoron-hexanoic acid (PFHxA)	NA	<0.66	<1.8	2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluorono-n-nonanoic acid (PFNA)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.66	<b>2.2</b>	<1.2	<b>3.7</b>	<b>1.6</b>	<0.89	<0.69	<1.4	<b>1.7</b>	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<b>1.2</b>	<0.89	<b>1.7</b>	<0.9
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.66	<1.8	7.9	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	1.6	<1.6	<0.9
Perfluoro-n-pentanoic acid (PPeA)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluorono-undecanoic acid (PFUdA)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9
Perfluoro-1-pentanesulfonate (PPPeS)	NA	<0.66	<1.8	<1.2	<0.73	<0.79	<0.89	<0.69	<1.4	<0.92	<0.68	<0.65	<0.75	<0.69	<0.84	<1.4	<0.96	<0.89	<1.6	<0.9

**TABLE 1**  
 SUMMARY OF SEDIMENT SAMPLE ANALYSIS - PFAS  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 GENERIC SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T9-1	TA-SED-T9-2	TA-SED-T9-2	TA-SED-T9-2	TA-SED-T9-2	TA-SED-T9-3	TA-SED-T9- ISLAND	TA-SED-T9- ISLAND	TA-SED-T9- ISLAND	TA-SED-T9- ISLAND
Sample Name	TA-SED-T9-1 (4-5)	TA-SED-T9-2 (0-1)	TA-SED-T9-2 (2-3)	TA-SED-T9-2 (4-5)	TA-SED-T9-2 (5-6)	TA-SED-T9-3 (0-1)	TA-SED-T9- ISLAND(0-0.5)	TA-SED-T9- ISLAND(1-2)	TA-SED-T9- ISLAND(4-5)	TA-SED-T9- ISLAND(6.5-7.5)	
Sample Depth (Feet)	4 - 5	0 - 1	2 - 3	4 - 5	5 - 6	0 - 1	0 - 0.5	1 - 2	4 - 5	6.5 - 7.5	
Sample Date	6/29/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/29/2018	7/13/2018	7/13/2018	7/13/2018	7/13/2018	
Parameter (ug/kg)											
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.6	<1.8	<1.9	<1.3	<1.7	<4	<3.1	<3.3	<1.8	<1.5
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.6	<1.8	<1.9	<1.3	<1.7	<4	<3.1	<3.3	<1.8	<1.5
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.6	<1.8	<1.9	<1.3	<1.7	<4	<3.1	<3.3	<1.8	<1.5
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.6	<1.8	<1.9	<1.3	<1.7	<4	<3.1	<3.3	<1.8	<1.5
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-n-butanoic acid (PFBA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-n-decanoic acid (PFDA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-n-dodecanoic acid (PFDoA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-1-heptanesulfonate (PFHpS)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-n-heptanoic acid (PFHpa)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluorohexanesulfonate (PFHxS)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-n-nonanoic acid (PFNA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.8	<0.88	<0.94	<0.65	<0.86	<b>18</b>	<b>15</b>	<b>20</b>	<0.91	<0.77
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.8	<0.88	<0.94	<0.65	<0.86	<2	2.4	2	<0.91	<0.77
Perfluoro-n-pentanoic acid (PPPeA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-1-nananesulfonate (PFNS)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77
Perfluoro-1-pentanesulfonate (PPPeS)	NA	<0.8	<0.88	<0.94	<0.65	<0.86	<2	<1.5	<1.6	<0.91	<0.77

**TABLE 1 NOTES**  
Former Tannery  
Rockford, Michigan

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NOTES:

1. Concentration and criteria units are micro-grams per kilogram or parts per billion, except otherwise noted.
2. RL = Reporting Limit. PQL=Practical Quantitation Limit. MDL=Method Detection Limit.  
"< RL/PQL" indicates the compound was analyzed for but not detected above the method detection limit.  
"J" denotes the compound was detected above the method detection limit but less than the PQL. The value is estimated.  
"B" indicates the compound was detected in the sample and in the associated laboratory method blank above the reporting limit.  
"E" denotes the quantitation of the compound exceeded the calibration range; "DUP" indicates a duplicate sample.  
"F1" denotes MS and/or MSD recovery is outside acceptance limits.  
"F2" denotes MS/MSD RPD exceeds control limits.  
"4" denotes the analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
3. Generic Michigan Part 201 Soil cleanup criteria were based on MDEQ's Table 2, Soil: Residential, Part 201 Generic Cleanup Criteria and Screening Levels, June 2018.
4. Generic Michigan Part 201 soil cleanup criteria were included for reference but do not apply to sediment. Michigan does not have a criteria or screening value for PFAS compounds.
5. ***BOLD, Italic*** number with a thick border indicates that the compound was detected greater than one of the listed generic criteria.
7. The laboratory misnamed sample TF28027-007 as TA-SED-T6-2 (6.4-7.4). It should be named TA-SED-T7-1 (6.4-7.4). The sample location and sample name have been corrected in the tables and the laboratory will fix the mistake and re-issue the lab report and electronic data.

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-16	TA-SB-16	TA-SB-17	TA-SB-17	TA-SB-18	TA-SB-18	TA-SB-19	TA-SB-19	TA-SB-20	TA-SB-20
Sample Name			TA-SB-16 (2-3)	TA-SB-16 (6-7)	TA-SB-17 (1-2)	TA-SB-17 (7-8)	TA-SB-18 (2-3)	TA-SB-18 (6-7)	TA-SB-19 (3-4)	TA-SB-19 (7-8)	TA-SB-20(5-6)	TA-SB-20 (7-8)
Depth Interval (Feet)			2 - 3	6 - 7	1 - 2	7 - 8	2 - 3	6 - 7	3 - 4	7 - 8	5 - 6	7 - 8
Sample Date			7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/27/2018	7/26/2018
Parameter (ug/kg)												
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<10	<11	<11	<9.7	<9.9	<11	<10	<11	<18	<11
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<10	<11	<11	<9.7	<9.9	<11	<10	<11	<18	<11
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.1	<2.1	<2.2	<1.9	<2	<2.3	<2.1	<2.3	<3.6	<2.2
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.1	<2.1	<2.2	<1.9	<2	<2.3	<2.1	<2.3	<3.6	<2.2
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-n-dodecanoic acid (PFDaO)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-1-heptanesulfonate (PFHps)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluorohexanesulfonate (PFHxS)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
<b>Perfluoroctanesulfonate (PFOS)</b>	NA	0.24	<b>9.1</b>	<b>8.7</b>	<b>18</b>	<b>34</b>	<b>62</b>	<5.7	<b>56</b>	<5.7	<b>140</b>	<b>14</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	11	<5.5
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<5.2	<5.3	<5.5	<4.9	<4.9	<5.7	<5.2	<5.7	<8.9	<5.5

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-24	TA-SB-24	TA-SB-25	TA-SB-25	TA-SB-28	TA-SB-28	TA-SB-31
Sample Name			TA-SB-24(0-1)	TA-SB-24(5-6)	TA-SB-25(1-2)	TA-SB-25(7-8)	TA-SB-28(2-3)	TA-SB-28(6-7)	TA-SB-31(2-3)
Depth Interval (Feet)			0 - 1	5 - 6	1 - 2	7 - 8	2 - 3	6 - 7	2 - 3
Sample Date			7/27/2018	7/27/2018	7/27/2018	7/27/2018	7/27/2018	7/27/2018	7/27/2018
Parameter (ug/kg)									
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<12	<13	<14	<27	<9.8	<10	<12
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<12	<13	<14	<27	<9.8	<10	<12
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	2.5	<2.5	<2.8	<5.4	<2	2.5	<2.4
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.3	<2.5	<2.8	<5.4	<2	<2	<2.4
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-1-heptanesulfonate (PFHpS)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluorohexanesulfonate (PFHxS)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	11	45	<7	40	<4.9	<5	<5.9
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>55</b>	<b>82</b>	<7	<b>470</b>	<4.9	<b>43</b>	<b>21</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<5.8	17	<7	55	<4.9	<5	<5.9
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<5.8	<6.3	<7	<13	<4.9	<5	<5.9

**TABLE 2**  
 Former Tannery  
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Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-31	TA-SB-32	TA-SB-32	TA-SB-33	TA-SB-33	TA-SB-34	TA-SB-34	TA-SB-35	TA-SB-35	TA-SB-36
Sample Name			TA-SB-31(7-8)	TA-SB-32(2-3)	TA-SB-32(9-10)	TA-SB-33(1-2)	TA-SB-33(7-8)	TA-SB-34(3-4)	TA-SB-34(6-7)	TA-SB-35 (2-3)	TA-SB-35 (6-7)	TA-SB-36 (2-3)
Depth Interval (Feet)			7 - 8	2 - 3	9 - 10	1 - 2	7 - 8	3 - 4	6 - 7	2 - 3	6 - 7	2 - 3
Sample Date			7/27/2018	7/27/2018	7/27/2018	7/27/2018	7/27/2018	7/27/2018	7/27/2018	7/26/2018	7/26/2018	7/26/2018
Parameter (ug/kg)												
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<23	<10	<10	<13	<17	<20	<14	<12	<13	<14
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<23	<10	<10	<13	<17	<20	<14	<12	<13	<14
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<4.6	<2.1	<2	<2.5	<3.5	<4	<2.8	<2.3	<2.7	<2.8
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<4.6	<2.1	<2	<2.5	<3.5	<4	<2.8	<2.3	<2.7	<2.8
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-n-dodecanoic acid (PFDaO)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-1-heptanesulfonate (PFHPS)	NA	NA	<12	<5.2	<5.1	6.8	<8.7	<10	8	<5.9	<6.7	<7.1
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluorohexanesulfonate (PFHxS)	NA	NA	25	<5.2	<5.1	6.5	<8.7	<10	13	<5.9	<6.7	<7.1
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<12	<5.2	<5.1	17	<8.7	<10	<6.9	<5.9	<6.7	9.7
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>24</b>	<5.2	<5.1	<b>850</b>	<b>190</b>	<10	<b>480</b>	<b>9.5</b>	<b>75</b>	<b>660</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	29	<5.2	<5.1	21	18	<10	12	<5.9	12	<7.1
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<12	<5.2	<5.1	<6.3	<8.7	<10	<6.9	<5.9	<6.7	<7.1

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-36	TA-SB-37	TA-SB-37	TA-SB-38	TA-SB-38	TA-SB-38	TA-SB-38	TA-SB-39
Sample Name			TA-SB-36 (5-6)	TA-SB-37(1-2)	TA-SB-37(6-7)	TA-SB-38 (0.5-1.5) DUP	TA-SB-38 (0.5-1.5) DUP	TA-SB-38 (6-7)	TA-SB-38 (6-7)	TA-SB-39 (1-2)
Depth Interval (Feet)			5 - 6	1 - 2	6 - 7	0.5 - 1.5	0.5 - 1.5	6 - 7	6 - 7	1 - 2
Sample Date			7/26/2018	7/27/2018	7/27/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018	7/26/2018
Parameter (ug/kg)										
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<16	<12	<16	<11	<11	<23	<9.1	
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<16	<12	<16	<11	<11	<23	<9.1	
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<3.2	<2.4	<3.2	8.4	66	<4.6	2	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<3.2	<2.4	<3.2	2.1	3.8	<4.6	<1.8	
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<8	<6	<8.1	<5.3	<5.4	21	<4.5	
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-1-heptanesulfonate (PFHpS)	NA	NA	<8	<6	<8.1	<5.3	<5.4	29	<4.5	
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluorohexanesulfonate (PFHxS)	NA	NA	<8	<6	<8.1	6.1	12	110	<4.5	
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<8	<6	19	120	300	<12	11	
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>660</b>	<b>28</b>	<b>81</b>	<b>540</b>	<b>820</b>	<b>130</b>	<b>52</b>	
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	13	<6	<8.1	12	20	170	6.7	
Perfluoro-n-pentanoic acid (PPeA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<8	<6	<8.1	6.9	9.8	<12	<4.5	
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<8	<6	<8.1	<5.3	<5.4	<12	<4.5	

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-39	TA-SB-40	TA-SB-40	TA-SB-43	TA-SB-43	TA-SB-46	TA-SB-46	TA-SB-46	TA-SB-48	TA-SB-48	TA-SB-53
Sample Name			TA-SB-39 (6-7)	TA-SB-40(2-3)	TA-SB-40(6-7)	TA-SB-43 (1-2)	TA-SB-43 (7-8)	TA-SB-46(8-9)	TA-SB-46(9-10)	TA-SB-48(1-2)	TA-SB-48(10-11)	TA-SB-53 (0-1)	
Depth Interval (Feet)			6 - 7	2 - 3	6 - 7	1 - 2	7 - 8	8 - 9	9 - 10	1 - 2	10 - 11	0 - 1	
Sample Date			7/26/2018	7/27/2018	7/27/2018	7/19/2018	7/19/2018	7/27/2018	7/27/2018	7/27/2018	7/27/2018	7/19/2018	
Parameter (ug/kg)													
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<11	<11	<17	<11	<13	<11	<11	<9.2	<8.7	<9.5	
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<11	<11	<17	<11	<13	<11	<11	<9.2	<8.7	<9.5	
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.2	<2.2	<3.4	<2.2	<2.7	<2.1	<2.3	<1.8	<1.7	<1.9	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.2	<2.2	<3.4	<2.2	<2.7	<2.1	<2.3	<1.8	<1.7	<1.9	
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-dodecanoic acid (PFDaO)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-1-heptanesulfonate (PFHps)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluorohexanesulfonate (PFHxS)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<5.4	8.9	44	10	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>12</b>	<b>80</b>	<b>130</b>	<b>70</b>	<b>92</b>	<5.3	<5.6	<b>110</b>	<b>20</b>	<b>11</b>	
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<5.4	<5.6	<8.5	<5.5	<6.7	<5.3	<5.6	<4.6	<4.4	<4.7	

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-53	TA-SB-53	TA-SB-54	TA-SB-54	TA-SB-55	TA-SB-55	TA-SB-56
Sample Name			TA-SB-53 (5-6)	TA-SB-53(7-8)	TA-SB-54 (0-1)	TA-SB-54 (3-4)	TA-SB-55 (1-2)	TA-SB-55 (5-6)	TA-SB-56 (1-2)
Depth Interval (Feet)			5 - 6	7 - 8	0 - 1	3 - 4	1 - 2	5 - 6	1 - 2
Sample Date			7/19/2018	7/19/2018	7/18/2018	7/18/2018	7/18/2018	7/18/2018	7/18/2018
Parameter (ug/kg)									
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<12	<12	<11	<8.9	<11	<10	<11
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<12	<12	<11	<8.9	<11	<10	<11
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.3	<2.3	<2.2	<1.8	<2.1	<2.1	<2.2
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.3	<2.3	<2.2	<1.8	<2.1	<2.1	<2.2
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-1-heptanesulfonate (PFHpS)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluorohexanesulfonate (PFHxS)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<5.8	<5.8	19	<4.4	<5.3	<5.1	<5.6
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>6.1</b>	<b>18</b>	<b>170</b>	<4.4	<b>17</b>	<b>54</b>	<b>25</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<5.8	<5.8	5.7	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<5.8	<5.8	<5.5	<4.4	<5.3	<5.1	<5.6

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-59	TA-SB-59	TA-SB-60	TA-SB-60	TA-SB-61	TA-SB-61	TA-SB-62	TA-SB-62	TA-SB-63	TA-SB-63
Sample Name			TA-SB-59(2-3)	TA-SB-59(11-12)	TA-SB-60 (7-8)	TA-SB-60 (8-9)	TA-SB-61 (5-6)	TA-SB-61 (7-8)	TA-SB-62 (3-4)	TA-SB-62 (5-6)	TA-SB-63 (1-2)	TA-SB-63 (7-8)
Depth Interval (Feet)			2 - 3	11 - 12	7 - 8	8 - 9	5 - 6	7 - 8	3 - 4	5 - 6	1 - 2	7 - 8
Sample Date			7/27/2018	7/27/2018	7/18/2018	7/18/2018	7/17/2018	7/17/2018	7/17/2018	7/17/2018	7/17/2018	7/17/2018
Parameter (ug/kg)												
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<13	<23	<11	<17	<11	<11	<18	<56	<9.3	<15
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<13	<23	<11	<17	<11	<11	<18	<56	<9.3	<15
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.6	<4.6	<2.2	<3.4	<2.3	<2.3	<3.7	<11	<1.9	<3
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.6	<4.6	<2.2	<3.4	<2.3	<2.3	<3.7	<11	<1.9	<3
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	16	<28	<4.6	<7.4
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<9.2	<28	<4.6	<7.4
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<9.2	<28	<4.6	<7.4
Perfluoro-n-dodecanoic acid (PFDaO)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<9.2	<28	<4.6	<7.4
Perfluoro-1-heptanesulfonate (PFHps)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	14	<28	<4.6	10
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	56	<28	<4.6	<7.4
Perfluorohexanesulfonate (PFHxS)	NA	NA	<6.5	13	<5.4	<8.4	<5.7	<5.7	120	<28	<4.6	18
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	35	<28	<4.6	<7.4
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<46	<28	<4.6	<7.4
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	120	<11	<5.4	<8.4	6.1	<5.7	<9.2	<28	6.3	<7.4
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>300</b>	<b>27</b>	<b>32</b>	<b>55</b>	<b>470</b>	<b>8.9</b>	<b>310</b>	<28	<b>100</b>	<b>340</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<6.5	17	<5.4	<8.4	7.9	<5.7	130	<28	<4.6	78
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<9.2	<28	<4.6	<7.4
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<9.2	<28	<4.6	<7.4
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<9.2	<28	<4.6	<7.4
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<9.2	<28	<4.6	<7.4
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<9.2	<28	<4.6	<7.4
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	<9.2	<28	<4.6	<7.4
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<6.5	<11	<5.4	<8.4	<5.7	<5.7	46	<28	<4.6	<7.4

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-64	TA-SB-64	TA-SB-65	TA-SB-65	TA-SB-65	TA-SB-66	TA-SB-66
Sample Name			TA-SB-64 (0-1)	TA-SB-64 (4-5)	TA-SB-65 (1-2)	TA-SB-65 (1-2) DUP	TA-SB-65 (4-5)	TA-SB-66(0-1)	TA-SB-66(2-3)
Depth Interval (Feet)			0 - 1	4 - 5	1 - 2	1 - 2	4 - 5	0 - 1	2 - 3
Sample Date			7/19/2018	7/19/2018	7/18/2018	7/18/2018	7/18/2018	7/27/2018	7/27/2018
Parameter (ug/kg)									
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<9.7	<26	<14	<18	<18	<9.3	<67
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<9.7	<26	<14	<18	<18	<9.3	<67
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<1.9	<5.3	<2.9	<3.5	<3.7	<1.9	<13
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<1.9	<5.3	<2.9	<3.5	<3.7	<1.9	<13
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<4.8	<13	<7.2	<8.9	9.4	<4.7	<34
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<4.8	<13	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<4.8	<13	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<4.8	<13	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-1-heptanesulfonate (PFHpS)	NA	NA	<4.8	33	<7.2	<8.9	35	<4.7	<34
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<4.8	<13	<7.2	<8.9	57	<4.7	<34
Perfluorohexanesulfonate (PFHxS)	NA	NA	<4.8	32	<7.2	<8.9	120	<4.7	<34
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<4.8	<13	<7.2	<8.9	28	<4.7	<34
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<4.8	16	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	8.5	<13	<7.2	<8.9	<9.2	11	<34
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>100</b>	<b>1,000</b>	<b>600</b>	<b>980</b>	<b>750</b>	<b>55</b>	<b>2,600</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<4.8	<260	17	27	360	<4.7	79
Perfluoro-n-pentanoic acid (PPeA)	NA	NA	<4.8	<13	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<4.8	<13	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<4.8	<13	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<4.8	<13	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<4.8	<13	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<4.8	<13	<7.2	<8.9	<9.2	<4.7	<34
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<4.8	<13	<7.2	<8.9	31	<4.7	<34

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-67	TA-SB-67	TA-SB-68	TA-SB-68	TA-SB-69	TA-SB-69	TA-SB-70	TA-SB-70	TA-SB-71	TA-SB-71
Sample Name			TA-SB-67 (0-1)	TA-SB-67 (5-6)	TA-SB-68 (1-2)	TA-SB-68 (3-4)	TA-SB-69 (2-3)	TA-SB-69 (4-5)	TA-SB-70 (0-1)	TA-SB-70 (5-6)	TA-SB-71(1-2)	TA-SB-71(3-4)
Depth Interval (Feet)			0 - 1	5 - 6	1 - 2	3 - 4	2 - 3	4 - 5	0 - 1	5 - 6	1 - 2	3 - 4
Sample Date			7/23/2018	7/23/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/17/2018	7/17/2018	7/20/2018	7/20/2018
Parameter (ug/kg)												
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<11	<11	<14	<12	<13	<10	<10	<13	<9.8	<9.4
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<11	<11	<14	<12	<13	<10	<10	<13	<9.8	<9.4
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.2	<2.2	<2.8	<2.3	<2.7	<2	<2.1	<2.6	<2	<1.9
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.2	<2.2	<2.8	<2.3	<2.7	<2	<2.1	<2.6	<2	<1.9
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-n-dodecanoic acid (PFDaO)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-1-heptanesulfonate (PFHPS)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluorohexanesulfonate (PFHxS)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>29</b>	<b>11</b>	<b>13</b>	<b>160</b>	<b>87</b>	<b>110</b>	<b>5.3</b>	<b>98</b>	<b>41</b>	<b>69</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	5.6
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<5.6	<5.6	<7.1	<5.8	<6.7	<5	<5.2	<6.6	<4.9	<4.7

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-72	TA-SB-72	TA-SB-72	TA-SB-73	TA-SB-73	TA-SB-74	TA-SB-74
Sample Name			TA-SB-72(1-2)	TA-SB-72(1-2) DUP	TA-SB-72(3-4))	TA-SB-73(1-2)	TA-SB-73(6-7)	TA-SB-74(1-2)	TA-SB-74(5-6)
Depth Interval (Feet)			1 - 2	1 - 2	3 - 4	1 - 2	6 - 7	1 - 2	5 - 6
Sample Date			7/20/2018	7/20/2018	7/20/2018	7/20/2018	7/20/2018	7/20/2018	7/20/2018
Parameter (ug/kg)									
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<12	<12	<10	<11	<11	<12	<11
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<12	<12	<10	<11	<11	<12	<11
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.3	<2.4	<2	<2.1	<2.1	<2.4	<2.3
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.3	<2.4	<2	<2.1	<2.1	<2.4	<2.3
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-1-heptanesulfonate (PFHpS)	NA	NA	<5.8	7.3	<5	<5.3	<5.3	10	<5.7
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluorohexanesulfonate (PFHxS)	NA	NA	7.5	8.7	<5	5.9	<5.3	13	<5.7
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>290</b>	<b>560</b>	<b>41</b>	<b>160</b>	<5.3	<b>350</b>	<b>14</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<5.8	<6	<5	12	<5.3	22	<5.7
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<5.8	<6	<5	<5.3	<5.3	<5.9	<5.7

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-75	TA-SB-75	TA-SB-75	TA-SB-76	TA-SB-76	TA-SB-77	TA-SB-77	TA-SB-78	TA-SB-78	TA-SB-79
Sample Name			TA-SB-75 (5-6)	TA-SB-75 (5-6) DLID	TA-SB-75 (7-8)	TA-SB-76 (1-2)	TA-SB-76 (7-8)	TA-SB-77 (2-3)	TA-SB-77 (5-6)	TA-SB-78 (5-6)	TA-SB-78 (6-7)	TA-SB-79 (2-3)
Depth Interval (Feet)			5 - 6	5 - 6	7 - 8	1 - 2	7 - 8	2 - 3	5 - 6	5 - 6	6 - 7	2 - 3
Sample Date			7/18/2018	7/18/2018	7/18/2018	7/16/2018	7/18/2018	7/17/2018	7/17/2018	7/16/2018	7/16/2018	7/16/2018
Parameter (ug/kg)												
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<19	<18	<9.1	<18	<12	<24	<12	<12	<13	<11
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<19	<18	<9.1	<18	<12	<24	<12	<12	<13	<11
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<3.8	<3.7	<1.8	<3.5	<2.5	<4.9	<2.4	<2.4	<2.6	<2.1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<3.8	<3.7	<1.8	<3.5	<2.5	<4.9	<2.4	<2.4	<2.6	<2.1
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-n-dodecanoic acid (PFDaO)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-1-heptanesulfonate (PFHPS)	NA	NA	11	14	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluorohexanesulfonate (PFHxS)	NA	NA	21	25	<4.6	<8.8	<6.2	<12	<6	7.9	<6.5	<5.4
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>320</b>	<b>360</b>	<4.6	<b>120</b>	<b>9.1</b>	<b>33</b>	<b>34</b>	<b>18</b>	<6.5	<b>35</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	48	49	<4.6	12	<6.2	<12	8.6	8.1	<6.5	5.5
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<9.6	<9.1	<4.6	<8.8	<6.2	<12	<6	<6	<6.5	<5.4

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-79	TA-SB-80	TA-SB-80	TA-SB-81	TA-SB-81	TA-SB-82	TA-SB-82
Sample Name			TA-SB-79 (4-5)	TA-SB-80 (2-3)	TA-SB-80 (3-4)	TA-SB-81 (4-5)	TA-SB-81 (5-6)	TA-SB-82 (0-1)	TA-SB-82 (6-7)
Depth Interval (Feet)			4 - 5	2 - 3	3 - 4	4 - 5	5 - 6	0 - 1	6 - 7
Sample Date			7/16/2018	7/16/2018	7/16/2018	7/17/2018	7/16/2018	7/19/2018	7/19/2018
Parameter (ug/kg)									
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<13	<13	<13	<17	<19	<11	<14
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<13	<13	<13	<17	<19	<11	<14
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.7	<2.7	<2.5	<3.5	<3.7	<2.1	<2.9
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.7	<2.7	<2.5	<3.5	<3.7	<2.1	<2.9
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<6.7	13	13	11	9.5	5.9	<7.2
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2
Perfluoro-1-heptanesulfonate (PFHpS)	NA	NA	<6.7	<6.7	<6.3	<430	21	<5.3	<7.2
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2
Perfluorohexanesulfonate (PFHxS)	NA	NA	<6.7	<6.7	<6.3	16	13	6.1	8.8
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<6.7	<6.7	<6.3	<430	<9.3	<5.3	<7.2
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<6.7	12	<6.3	14	<9.3	35	<7.2
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<6.7	<b>390</b>	<b>380</b>	<b>4,400</b>	<b>2,600</b>	<b>310</b>	<7.2
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	10	10	13	54	39	11	27
Perfluoro-n-pentanoic acid (PPeA)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<6.7	<6.7	<6.3	<430	<9.3	<5.3	<7.2
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<6.7	<6.7	<6.3	<430	<9.3	<5.3	<7.2
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<6.7	<6.7	<6.3	<8.7	<9.3	<5.3	<7.2

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-83	TA-SB-83	TA-SB-AOC-G-01	TA-SB-AOC-G-01	TA-SB-AOC-G-02	TA-SB-AOC-G-02	TA-SB-AOC-H-01	TA-SB-AOC-H-01	TA-SB-AOC-H-02	TA-SB-AOC-H-02
			TA-SB-83 (1-2)	TA-SB-83 (4-5)	TA-SB-AUC-G-01 (1-2)	TA-SB-AUC-G-01 (5-6)	TA-SB-AUC-G-02 (1-2)	TA-SB-AUC-G-02 (6-7)	TA-SB-AUC-H-01 (2-3)	TA-SB-AUC-H-01 (4-5)	TA-SB-AUC-H-02 (2-3)	TA-SB-AUC-H-02 (6-7)
			1 - 2	4 - 5	1 - 2	5 - 6	1 - 2	6 - 7	2 - 3	4 - 5	2 - 3	6 - 7
Sample Date		7/17/2018	7/17/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/23/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018
Parameter (ug/kg)												
1H, 1H, 2H, 2H-perfluoroctane sulfonate (6:2 FTS)	NA	NA	<10	<12	<12	<12	<12	<13	<12	<11	<11	<12
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<10	<12	<12	<12	<12	<13	<12	<11	<11	<12
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2	<2.5	<2.4	<2.3	<2.4	<2.6	<2.4	<2.3	<2.1	<2.4
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2	<2.5	<2.4	<2.3	3.4	<2.6	<2.4	<2.3	<2.1	<2.4
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<5.1	<6.2	<5.9	<5.8	9	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-n-dodecanoic acid (PFDaO)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-1-heptanesulfonate (PFHps)	NA	NA	<5.1	<6.2	<5.9	<5.8	12	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<5.1	<6.2	<5.9	<5.8	8.1	<6.4	<6.1	<5.7	<5.4	<6
Perfluorohexanesulfonate (PFHxS)	NA	NA	<5.1	<6.2	<5.9	<5.8	25	<6.4	17	<5.7	10	<6
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<5.1	<6.2	79	<5.8	160	<6.4	31	<5.7	29	<6
<b>Perfluoroctanesulfonate (PFOS)</b>	NA	0.24	<b>14</b>	<6.2	<b>90</b>	<b>16</b>	<b>850</b>	<b>22</b>	<b>480</b>	<b>110</b>	<b>410</b>	<6
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<5.1	<6.2	36	<5.8	94	<6.4	53	<5.7	34	<6
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<5.1	<6.2	<5.9	<5.8	14	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<5.1	<6.2	<5.9	<5.8	<6	<6.4	<6.1	<5.7	<5.4	<6

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-AOC-H-03 TA-SB-AUC-H-03 (2-2.5)	TA-SB-AOC-H-03 TA-SB-AUC-H-03 (5.6)	TA-SB-MW-01 TA-SB-MVW-01 (2- 3)	TA-SB-MW-01 TA-SB-MVW-01 (6- 7)	TA-SB-MW-02 TA-SB-MVW-02 (1- 2)	TA-SB-MW-02 TA-SB-MVW-02 (4- 5)	TA-SB-MW-04 TA-SB-MVW-04 (1- 2)
Sample Name									
Depth Interval (Feet)			2 - 2.5	5 - 6	2 - 3	6 - 7	1 - 2	4 - 5	1 - 2
Sample Date			7/10/2018	7/10/2018	6/28/2018	6/28/2018	6/29/2018	6/29/2018	6/29/2018
Parameter (ug/kg)									
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<16	<12	<10	<12	<10	<9.8	<11
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<16	<12	<10	<12	<10	<9.8	<11
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<3.1	<2.4	140	2.4	<2.1	<2	<2.2
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<3.1	<2.4	<2	<2.3	<2.1	<2	<2.2
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<7.8	<5.9	7.1	6.5	<5.1	<4.9	<5.4
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-heptanesulfonate (PFHpS)	NA	NA	<7.8	<5.9	9.2	6.6	<5.1	<4.9	<5.4
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<7.8	<5.9	5.6	<5.9	<5.1	<4.9	<5.4
Perfluorohexanesulfonate (PFHxS)	NA	NA	89	<5.9	5.9	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<7.8	<5.9	<260	16	<5.1	<4.9	8.9
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>200</b>	<b>13</b>	<b>3,400 [E]</b>	<b>2,800</b>	<5.1	<b>19</b>	<b>120</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	42	<5.9	42	12	<5.1	<4.9	8.1
Perfluoro-n-pentanoic acid (PPPeA)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<7.8	<5.9	35	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<7.8	<5.9	25	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<7.8	<5.9	<5.1	<5.9	<5.1	<4.9	<5.4

**TABLE 2**  
 Former Tannery  
 Rockford, Michigan

Sample Location	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-MW-04 TA-SB-MVW-U4DUF (1-2)	TA-SB-MW-04 TA-SB-MVW-U4 (5-6)	TA-SB-MW-05 TA-SB-MVW-U5 (1-2)	TA-SB-MW-05 TA-SB-MVW-U5 (4-5)	TA-SB-MW-06 TA-SB-MVW-U6 (2-3)	TA-SB-MW-06 TA-SB-MVW-U6 (4-5)	TA-SB-MW-06 TA-SB-MVW-U6 (4-5)	TA-SB-MW-07 TA-SB-MVW-U7 (4-5)	TA-SB-MW-07 TA-SB-MVW-U7 (6-7)	TA-SB-MW-08 TA-SB-MVW-U8 (2-3)
Sample Name												
Depth Interval (Feet)			1 - 2	5 - 6	1 - 2	4 - 5	2 - 3	4 - 5	4 - 5	4 - 5	6 - 7	2 - 3
Sample Date			6/29/2018	6/29/2018	7/2/2018	7/2/2018	6/29/2018	6/29/2018	6/28/2018	6/28/2018	6/28/2018	6/29/2018
Parameter (ug/kg)												
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<9.7	<10	<12	<12	<10	<14	<10	<11	<11	<11
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<9.7	<10	<12	<12	<10	<14	<10	<11	<11	<11
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<1.9	<2.1	<2.3	<2.4	<2	<2.8	<2.1	<2.3	<2.1	<2.1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<1.9	<2.1	<2.3	<2.4	<2	<2.8	<2.1	<2.3	<2.1	<2.1
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-1-heptanesulfonate (PFHpS)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluorohexanesulfonate (PFHxS)	NA	NA	4.9	<5.2	6.7	6.1	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-hexanoic acid (PFHxA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	10	<5.2	65	7.7	8.9	17	<5.2	<5.6	<5.3	<5.3
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>190</b>	<b>120</b>	<b>630</b>	<b>310</b>	<b>14</b>	<b>130</b>	<b>99 [H]</b>	<b>9.1</b>	<b>74</b>	
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	11	13	19	7.2	6.9	9.5	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-pentanoic acid (PFPeA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-1-nananesulfonate (PFNS)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3
Perfluoro-1-pentanesulfonate (PFPeS)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1	<6.9	<5.2	<5.6	<5.3	<5.3

**TABLE 2**  
Former Tannery  
Rockford, Michigan

NOTES:

1. Concentration and criteria units are micro-grams per kilogram or parts per billion; "< RL" or "<PQL" indicates the compound was analyzed for but not detected above the method detection limit; RL = Reporting Limit; PQL=Pratical Quantitation Limit.
2. **BOLD**, *Italic* number indicates that compound was detected above one of the listed generic cleanup criteria.
3. Michigan Part 201 soil cleanup criteria were based on MDEQ 's Table 2, Soil: Residential, Part 201 Generic Cleanup Citeria and Screening Levels, June 2018.

**TABLE 3**  
**SUMMARY OF SURFACE WATER SAMPLE ANALYSIS - PFAS**  
Former Tannery  
Rockford, Michigan

Sample Location	THE MOST RESTRICTIVE OF MDEQ RULE 57 SURFACE WATER QUALITY VALUES - HNV, FCV, and WV	TA-SW-01	TA-SW-01	TA-SW-02	TA-SW-03	TA-SW-04	TA-SW-05	TA-SW-06	TA-SW-07
Sample Name		TA-SW-01	TA-SW-01 (DUP)	TA-SW-02	TA-SW-03	TA-SW-04	TA-SW-05	TA-SW-06	TA-SW-07
Sample Date		07/25/2018	07/25/2018	07/24/2018	07/24/2018	07/24/2018	07/26/2018	07/25/2018	07/25/2018
Parameter (ug/L)									
<b>Perfluorooctane sulfonic acid (PFOS)</b>	0.012	<b>0.063</b>	<b>0.061</b>	0.0069	0.0088	<b>0.031</b>	<b>0.36</b>	<b>0.015</b>	0.006
Perfluorooctanoic acid (PFOA)	12	0.02	0.02	0.0025	0.0028	0.0081	0.18	0.0048	0.0021
Perfluoroundecanoic acid (PFUnDA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
Perfluoropentanoic acid (PFPeA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	0.0071	<0.0036	<0.0037
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	0.0071	<0.0036	<0.0037
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
Perfluorohexanoic acid (PFHxA)	NA	0.005	0.0047	<0.0037	<0.0038	<0.0037	0.025	<0.0036	<0.0037
Perfluorododecanoic acid (PFDoDA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NA	<0.0072	<0.0074	<0.0074	<0.0075	<0.0074	<0.0074	<0.0073	<0.0074
Perfluorodecanoic acid (PFDA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
Perfluorohexane sulfonic acid (PFHxS)	NA	0.0047	0.0051	<0.0037	<0.0038	<0.0037	0.035	<0.0036	<0.0037
Perfluorobutanoic acid (PFBA)	NA	<0.0036	0.004	<0.0037	<0.0038	<0.0037	0.0071	<0.0036	<0.0037
Perfluorobutane sulfonic acid (PFBS)	NA	0.0071	0.007	<0.0037	<0.0038	0.0055	0.027	0.0042	<0.0037
Perfluoroheptanoic acid (PFHpA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	0.02	<0.0036	<0.0037
Perfluoroheptane sulfonic acid (PFHpS)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	0.0075	<0.0036	<0.0037
Perfluorononanoic acid (PFNA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
Perfluorotetradecanoic acid (PFTeDA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
Perfluoro-1-nananesulfonate (PFNS)	NA	<0.0072	<0.0074	<0.0074	<0.0075	<0.0074	<0.0074	<0.0073	<0.0074
Perfluorotridecanoic acid (PFTrDA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	<0.0037	<0.0036	<0.0037
Perfluorooctane sulfonamide (FOSA)	NA	<0.0036	<0.0037	<0.0037	<0.0038	<0.0037	0.004	<0.0036	<0.0037

**TABLE 3 NOTES**  
Former Tannery  
Rockford, Michigan

NOTES:

1. Concentration and criteria units are reported in micro-grams per liter (ug/L) or parts per billion (ppb); "< RL" indicates the compound was analyzed for but not detected above the method detection limit; RL = Reporting Limit.
2. Bold indicates that compound was detected above the RL. Highlighted Italic number with thick line border or italic chemical indicates that compound was detected above most restrictive surface water quality value.
3. The most restrictive of MDEQ Rule 57 Water Quality Values were based on MDEQ Rule 57 Water Quality Values, dated March 15, 2018. HNV = Human Health Non-Drink

**TABLE 4**  
 SUMMARY OF GROUNDWATER SAMPLE ANALYSIS - PFAS  
 Former Tannery  
 Rockford, Michigan

Sample Location	PART 201 GENERIC RESIDENTIAL GROUNDWATER CLEANUP CRITERIA - DRINKING WATER	PART 201 GENERIC GROUNDWATER CLEANUP CRITERIA - GROUNDWATER SURFACE WATER INTERFACE	TA-MW-1	TA-MW-104	TA-MW-111	TA-MW-3	TA-MW-301D	TA-MW-303D	TA-MW-303E	TA-MW-303E DUP	TA-MW-304B	TA-MW-308B	TA-MW-308C	TA-MW-310A	TA-MW-310B	TA-MW-310C	TA-TMW-103	TA-TMW-109
Sample Name			TA-MW-1	TA-MW-104	TA-MW-111	TA-MW-3	TA-MW-301D	TA-MW-303D	TA-MW-303E		TA-MW-304B	TA-MW-308B	TA-MW-308C	TA-MW-310A	TA-MW-310B	TA-MW-310C	TA-TMW-103	TA-TMW-109
Sample Date			08/08/2018	08/08/2018	08/08/2018	08/08/2018	08/07/2018	08/07/2018	08/07/2018		08/07/2018	08/08/2018	08/07/2018	08/07/2018	08/08/2018	08/07/2018	08/08/2018	
Parameter (ug/L)																		
<b>Perfluoroctane sulfonic acid (PFOS)</b>	0.07	0.012	<b>2.5</b>	<b>27</b>	<b>3.5</b>	<b>11</b>	0.0079	0.0079	<0.0037	<0.0037	<b>0.86</b>	<0.0037	0.0047	<b>1.3</b>	<b>2.1</b>	0.006	<b>6.5</b>	<b>3.6</b>
<b>Perfluorooctanoic acid (PFOA)</b>	0.07	12	<b>0.69</b>	<b>3.6</b>	<b>3.1</b>	<b>3.1</b>	0.0024	0.003	<0.0019	<0.0019	<b>0.24</b>	<0.0019	0.0033	<b>0.62</b>	<b>0.68</b>	<b>0.083</b>	<b>2.9</b>	<b>0.98</b>
Perfluoroundecanoic acid (PFUnDA)	NA	NA	<0.0037	<0.038	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.004	<0.0037	<0.0037	<0.0036	<0.0037	<0.0037	<0.0041	<0.0037
Perfluoropentanoic acid (PFPeA)	NA	NA	0.051	0.12	0.086	0.12	<0.0037	<0.0037	<0.0037	<0.0037	0.043	<0.0037	<0.0037	0.084	0.068	0.18	0.23	0.15
Perfluoro-1-pentanesulfonate (PFPeS)	NA	NA	0.046	0.34	0.26	0.065	<0.0037	<0.0037	<0.0037	<0.0037	0.031	<0.0037	<0.0037	0.061	0.053	0.046	0.22	0.058
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	NA	NA	<0.0037	<0.038	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.004	<0.0037	<0.0037	<0.0036	<0.0037	<0.0037	0.0052	<0.0037
Perfluorohexanoic acid (PFHxA)	NA	NA	0.064	0.35	0.27	0.31	<0.0037	<0.0037	<0.0037	<0.0037	0.2	<0.0037	<0.0037	0.1	0.083	0.3	0.51	0.21
Perfluorododecanoic acid (PFDoDA)	NA	NA	<0.0037	<0.038	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.004	<0.0037	<0.0037	<0.0036	<0.0037	<0.0041	<0.0037	<0.0037
N-Methyl perfluorooctane sulfonamide (MeFOSA)	NA	NA	<0.0073	<0.075	<0.0074	<0.038	<0.0074	<0.0074	<0.0075	<0.0075	<0.008	<0.0075	<0.0074	<0.0073	<0.0074	<0.0074	<0.0081	<0.0074
Perfluorodecanoic acid (PFDA)	NA	NA	0.04	<0.038	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.004	<0.0037	<0.0037	0.02	0.031	<0.0037	0.012	<0.0037
Perfluoro-1-decanesulfonate (PFDS)	NA	NA	<0.0037	<0.038	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.004	<0.0037	<0.0037	<0.0036	<0.0037	<0.0041	<0.0037	<0.0037
Perfluorohexane sulfonic acid (PFHxS)	NA	NA	0.26	1.1	1	0.41	<0.0037	<0.0037	<0.0037	<0.0037	0.11	<0.0037	<0.0037	0.19	0.22	0.016	0.72	0.25
Perfluorobutanoic acid (PFBA)	NA	NA	0.052	0.1	0.085	0.12	<0.0037	<0.0037	<0.0037	<0.0037	0.086	<0.0037	<0.0037	0.045	0.036	0.15	0.13	0.069
Perfluorobutane sulfonic acid (PFBS)	NA	NA	1.5	0.9	0.55	0.49	<0.0037	0.0043	<0.0037	<0.0037	0.14	<0.0037	<0.0037	0.23	0.13	0.17	0.91	0.37
Perfluoroheptanoic acid (PFHpA)	NA	NA	0.074	0.35	0.39	0.19	<0.0037	<0.0037	<0.0037	<0.0037	0.06	<0.0037	<0.0037	0.095	0.082	0.12	0.38	0.17
Perfluoroheptane sulfonic acid (PFHpS)	NA	NA	0.1	0.31	0.17	0.14	<0.0037	<0.0037	<0.0037	<0.0037	0.011	<0.0037	<0.0037	0.029	0.04	<0.0037	0.14	0.052
Perfluorononanoic acid (PFNA)	NA	NA	0.029	0.059	<0.0037	0.032	<0.0037	<0.0037	<0.0037	<0.0037	0.0061	<0.0037	<0.0037	0.007	0.013	<0.0037	0.033	0.017
Perfluorotetradecanoic acid (PFTeDA)	NA	NA	<0.0037	<0.038	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.004	<0.0037	<0.0037	<0.0036	<0.0037	<0.0041	<0.0037	<0.0037
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	NA	NA	<0.0037	<0.038	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.004	<0.0037	<0.0037	<0.0036	<0.0037	<0.0041	<0.0037	<0.0037
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	NA	NA	0.0059	<0.038	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.004	<0.0037	<0.0037	<0.0036	<0.0037	<0.0041	<0.0037	<0.0037
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<0.0073	<0.075	<0.0074	<0.038	<0.0074	<0.0074	<0.0075	<0.0075	<0.008	<0.0075	<0.0074	<0.0073	<0.0074	<0.0074	<0.0081	<0.0074
Perfluorotridecanoic acid (PFTrDA)	NA	NA	<0.0037	<0.038	<0.0037	<0.019	<0.0037	<0.0037	<0.0037	<0.0037	<0.004	<0.0037	<0.0037	<0.0036	<0.0037	<0.0041	<0.0037	<0.0037
Perfluoroctane sulfonamide (FOSA)	NA	NA	0.24	<0.038	<0.0037	0.46	<0.0037	<0.0037	<0.0037	<0.0037	0.013	<0.0037	<0.0037	0.75	0.95	<0.0037	0.21	0.079

**TABLE 4 NOTES**  
Former Tannery  
Rockford, Michigan

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Page 2 of 2  
9/28/2018

NOTES:

1. Concentration and criteria units are micro-grams per liter (ug/L) or parts per billion (ppb); "< RL" indicates the compound was analyzed for but not detected above the method detection limit; RL = Reporting Limit
2. Bold, italic number with thick line border or italic chemical indicates that compound was detected above the generic Michigan Part 201 groundwater cleanup criteria.
3. Michigan Part 201 groundwater cleanup criteria based on "Table 1: Groundwater, Residential, Part 201 Generic Cleanup Criteria", June 2018.

