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## MEMORANDUM

To: Abby Hendershott, MDEQ

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

Date: August 31, 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 July 27, 2018 to August 24, 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) July 27 to August 8: The biased soil sampling around AOCs was completed. This work was completed under the scope of work outlined in Section 3.2.4.1 of the RWP. Several of these locations were adjusted based on sub-surface obstructions or access issues. Each was individually discussed with EPA/START and moved to a mutually-agreeable location.
- 2) July 27 to August 7: The grid-based soil sampling was completed. This included collecting soil samples for laboratory analysis from the grid-based locations. This work was completed under the scope of work outlined in Section 3.2.4.2 of the RWP. Several of these locations were adjusted based on sub-surface obstructions. Each was individually discussed with EPA/START and moved to a mutually-agreeable location.
- 3) August 7: Monitoring well TA-GW-09 (discussed further below) was installed. This work was completed under the scope of work outlined in Section 3.2.5 of the RWP.
- 4) August 7 to August 8: Conducted the first round of soil vapor sampling. This work was and will continue to be completed under the scope of work outlined in Section 3.2.10 of the RWP. Ten soil gas samples were collected related to this work and submitted to the laboratory for analysis.
- 5) August 6 to August 15: Completed the first round of groundwater quality sampling. This work was and will continue to be completed under the scope of work outlined in Section 3.2.6 of the RWP.

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.



## ANALYTICAL DATA RECEIVED

The PFAS data received through August 24, 2018 is summarized in Tables 1 and 2. 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	>GSIP (soil only) for PFOS
Sediment	105	105	40	NA
Soil	235	25	25	25
Surface Water	7	0	NA	NA
Groundwater	55	0	NA	NA

## ANTICIPATED ACTIONS AND SCHEDULE FOR NEXT REPORTING PERIOD

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

- 1) The first groundwater sampling at TA-GW-09;
- 2) Collect the second round of surface water samples;
- 3) Conduct additional stream flow monitoring and gauging of Rum Creek;
- 4) Survey the newly installed groundwater monitoring wells; and,
- 5) Begin the data evaluation of sediment, soil, groundwater and surface water data once complete data sets are received from the laboratories.

We anticipate the additional PFAS data from the soil and sediment sampling along with the surface water and groundwater sample data will be received during the next reporting period.

## IDENTIFIED PROBLEMS AND RESOLUTIONS

Multiple borings were relocated due to the presence of concrete below surface or safety concerns due to underground utilities. The relocations are mapped on the attached Figure 1. In each case START and/or U.S. EPA representatives approved the location. The soil samples from one location, TA-SB-MA-05, could not be collected



due to the consistency of the material being sampled; there was no recovery. U.S. EPA agreed that because four other borings were completed in this area, sampling this boring was not necessary.

## APPROVED SCOPE MODIFICATIONS

At the request of U.S. EPA, GZA added an additional monitoring well, TA-GW-09, in the northern portion of the Site near the previously identified buried leather scrap. This well could not be sampled with the other monitoring wells due to the requirement to wait two weeks following development. This well was sampled this week.

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**Table A**  
**Sediment Sampling Locations Completed**

Sample Location	Start - End Depth (ft)	Start Date	End Date	Sample ID	Date Samples Sent to Lab	PID Sweep for Samples Sent to Lab	Additional Notes
TA-SED-Boat Ramp	(0-1)	29-Jun-18	29-Jun-18	TA-SED-Boat Ramp(0-1)	2-Jul-18	0.2	EPA Split Sample
TA-SED-Boat Ramp	(1-1.9)	29-Jun-18	29-Jun-18	TA-SED-Boat Ramp(1-1.9)	2-Jul-18	0.2	
TA-SED-RCAccess	(0-1)	29-Jun-18	29-Jun-18	TA-SED-RCAccess(0-1)	2-Jul-18	0.3	
TA-SED-RCAccess	(1.5-2.5)	29-Jun-18	29-Jun-18	TA-SED-RCAccess(1.5-2.5)	2-Jul-18	NM	
TA-SED-EASTDAM	(0-0.5)	23-Jul-18	23-Jul-18	TA-SED-EASTDAM(0-0.5)	23-Jul-18	TBD	
TA-SED-RC-1	(0-1)	29-Jun-18	29-Jun-18	TA-SED-RC-1(0-1)	2-Jul-18	0.7	
TA-SED-RC-1	(1.2-2.2)	29-Jun-18	29-Jun-18	TA-SED-RC-1(1.2-2.2)	2-Jul-18	0.2	
TA-SED-RC-2	(0-1)	29-Jun-18	29-Jun-18	TA-SED-RC-2(0-1)	2-Jul-18	1.8	EPA Split Sample
TA-SED-RC-2	(1-2)	29-Jun-18	29-Jun-18	TA-SED-RC-2(1-2)	2-Jul-18	0.8	
TA-SED-RC-2	(2-3)	29-Jun-18	29-Jun-18	TA-SED-RC-2(2-3)	2-Jul-18	0.6	
TA-SED-RC-3	(0-0.4)	29-Jun-18	29-Jun-18	TA-SED-RC-3(0-0.4)	2-Jul-18	0.2	
TA-SED-T10-1	(0-1)	29-Jun-18	29-Jun-18	TA-SED-T10-1(0-1)	2-Jul-18	3.9	MS/MSD Samples
TA-SED-T10-1	(1.5-2.5)	29-Jun-18	29-Jun-18	TA-SED-T10-1(1.5-2.5)	2-Jul-18	0.8	Duplicate Samples
TA-SED-T10-1	(3-4)	29-Jun-18	29-Jun-18	TA-SED-T10-1(3-4)	2-Jul-18	1.0	
TA-SED-T10-3	(0-1)	29-Jun-18	29-Jun-18	TA-SED-T10-3(0-1)	2-Jul-18	1.4	
TA-SED-T10-3	(1-2)	29-Jun-18	29-Jun-18	TA-SED-T10-3(1-2)	2-Jul-18	0.8	
TA-SED-T10-ISLAND	(0-1)	23-Jul-18	23-Jul-18	TA-SED-T10-ISLAND(0-1)	23-Jul-18	TBD	
TA-SED-T10-ISLAND	(2-3)	23-Jul-18	23-Jul-18	TA-SED-T10-ISLAND(2-3)	23-Jul-18	TBD	
TA-SED-T10-ISLAND	(4-5)	23-Jul-18	23-Jul-18	TA-SED-T10-ISLAND(4-5)	23-Jul-18	TBD	
TA-SED-T1-1	(0-1)	24-Jul-18	24-Jul-18	TA-SED-T1-1(0-1)	24-Jul-18	TBD	Duplicate Sample
TA-SED-T1-3	(0-1)	24-Jul-18	24-Jul-18	TA-SED-T1-3(0-1)	24-Jul-18	TBD	Duplicate Sample
TA-SED-T2-1	(0-1)	22-Jun-18	22-Jun-18	TA-SED-T2-1(0-1)	22-Jun-18	0.7	
TA-SED-T2-1	(2-3)	22-Jun-18	22-Jun-18	TA-SED-T2-1(2-3)	22-Jun-18	0.2	
TA-SED-T2-1	(4-5)	22-Jun-18	22-Jun-18	TA-SED-T2-1(4-5)	22-Jun-18	0.8	
TA-SED-T2-2	(0-1)	25-Jun-18	25-Jun-18	TA-SED-T2-2(0-1)	25-Jun-18	2.2	Duplicate Sample
TA-SED-T2-2	(2-3)	25-Jun-18	25-Jun-18	TA-SED-T2-2(2-3)	25-Jun-18	4.0	
TA-SED-T2-2	(4-5)	25-Jun-18	25-Jun-18	TA-SED-T2-2(4-5)	25-Jun-18	4.6	
TA-SED-T2-3	(0-1)	22-Jun-18	22-Jun-18	TA-SED-T2-3(0-1)	22-Jun-18	1.8	EPA/MDEQ Split Sample
TA-SED-T2-3	(2-3)	22-Jun-18	22-Jun-18	TA-SED-T2-3(2-3)	22-Jun-18	1.4	
TA-SED-T2-3	(4-5)	22-Jun-18	22-Jun-18	TA-SED-T2-3(4-5)	22-Jun-18	2.4	
TA-SED-T3-1A	(0-1)	22-Jun-18	22-Jun-18	TA-SED-T3-1A(0-1)	22-Jun-18	ND	
TA-SED-T3-1A	(2-3)	22-Jun-18	22-Jun-18	TA-SED-T3-1A(2-3)	22-Jun-18	ND	
TA-SED-T3-1A	(5-6)	22-Jun-18	22-Jun-18	TA-SED-T3-1A(5-6)	22-Jun-18	0.5	
TA-SED-T3-2	(0-1.2)	21-Jun-18	21-Jun-18	TA-SED-T3-2(0-1.2)	21-Jun-18	ND	
TA-SED-T3-2	(1.7-2.7)	21-Jun-18	21-Jun-18	TA-SED-T3-2(1.7-2.7)	21-Jun-18	ND	
TA-SED-T3-2	(4-5)	21-Jun-18	21-Jun-18	TA-SED-T3-2(4-5)	21-Jun-18	ND	
TA-SED-T3-2	(6.2-7.2)	21-Jun-18	21-Jun-18	TA-SED-T3-2(6.2-7.2)	21-Jun-18	ND	
TA-SED-T3-3	(0-1)	21-Jun-18	21-Jun-18	TA-SED-T3-3(0-1)	21-Jun-18	ND	
TA-SED-T3-3	(2-3)	21-Jun-18	21-Jun-18	TA-SED-T3-3(2-3)	21-Jun-18	ND	
TA-SED-T3-3	(5-6)	21-Jun-18	21-Jun-18	TA-SED-T3-3(5-6)	21-Jun-18	ND	
TA-SED-T4-1	(0-1)	25-Jun-18	25-Jun-18	TA-SED-T4-1(0-1)	25-Jun-18	3.6	MS/MSD Samples
TA-SED-T4-1	(2.5-3.5)	25-Jun-18	25-Jun-18	TA-SED-T4-1(2.5-3.5)	25-Jun-18	2.6	
TA-SED-T4-1	(3.5-4.5)	25-Jun-18	25-Jun-18	TA-SED-T4-1(3.5-4.5)	25-Jun-18	5.0	
TA-SED-T4-2	(0-1)	29-Jun-18	29-Jun-18	TA-SED-T4-2(0-1)	2-Jul-18	0.6	
TA-SED-T4-2	(1-2)	29-Jun-18	29-Jun-18	TA-SED-T4-2(1-2)	2-Jul-18	0.3	
TA-SED-T4-2	(2-3)	29-Jun-18	29-Jun-18	TA-SED-T4-2(2-3)	2-Jul-18	NM	
TA-SED-T4-3	(0-1)	28-Jun-18	28-Jun-18	TA-SED-T4-3(0-1)	28-Jun-18	5.6	
TA-SED-T4-3	(1-1.7)	28-Jun-18	28-Jun-18	TA-SED-T4-3(1-1.7)	28-Jun-18	2.2	
TA-SED-T4-ISLAND	(0-0.5)	11-Jul-18	11-Jul-18	TA-SED-T4-ISLAND(0-0.5)	13-Jul-18	3.1	
TA-SED-T4-ISLAND	(4-5)	12-Jul-18	12-Jul-18	TA-SED-T4-ISLAND(4-5)	13-Jul-18	0.8	
TA-SED-T4-ISLAND	(6-7)	12-Jul-18	12-Jul-18	TA-SED-T4-ISLAND(6-7)	13-Jul-18	1.6	
TA-SED-T5-1	(0-1)	25-Jun-18	25-Jun-18	TA-SED-T5-1(0-1)	25-Jun-18	2.9	
TA-SED-T5-1	(1-2)	25-Jun-18	25-Jun-18	TA-SED-T5-1(1-2)	25-Jun-18	3.4	
TA-SED-T5-2	(0-1)	26-Jun-18	26-Jun-18	TA-SED-T5-2(0-1)	26-Jun-18	2.4	
TA-SED-T5-2	(1.7-2.7)	26-Jun-18	26-Jun-18	TA-SED-T5-2(1.7-2.7)	26-Jun-18	1.5	
TA-SED-T5-2	(3.7-4.7)	26-Jun-18	26-Jun-18	TA-SED-T5-2(3.7-4.7)	26-Jun-18	2.3	
TA-SED-T5-3	(0-1)	26-Jun-18	26-Jun-18	TA-SED-T5-3(0-1)	26-Jun-18	0.4	
TA-SED-T5-3	(2-3)	26-Jun-18	26-Jun-18	TA-SED-T5-3(2-3)	26-Jun-18	1.5	
TA-SED-T5-3	(4-5)	26-Jun-18	26-Jun-18	TA-SED-T5-3(4-5)	26-Jun-18	0.7	
TA-SED-T6-1	(0-1)	26-Jun-18	26-Jun-18	TA-SED-T6-1(0-1)	26-Jun-18	0.6	
TA-SED-T6-1	(2.5-3.5)	26-Jun-18	26-Jun-18	TA-SED-T6-1(2.5-3.5)	26-Jun-18	1.7	
TA-SED-T6-1	(4.1-5.1)	26-Jun-18	26-Jun-18	TA-SED-T6-1(4.1-5.1)	26-Jun-18	1.1	
TA-SED-T6-2	(0-1)	27-Jun-18	27-Jun-18	TA-SED-T6-2(0-1)	27-Jun-18	4.4	
TA-SED-T6-2	(2-3)	27-Jun-18	27-Jun-18	TA-SED-T6-2(2-3)	27-Jun-18	2.6	
TA-SED-T6-2	(3.6-4.6)	27-Jun-18	27-Jun-18	TA-SED-T6-2(3.6-4.6)	27-Jun-18	0.9	
TA-SED-T6-3	(0-1)	26-Jun-18	26-Jun-18	TA-SED-T6-3(0-1)	26-Jun-18	0.9	
TA-SED-T6-3	(2-3)	26-Jun-18	26-Jun-18	TA-SED-T6-3(2-3)	26-Jun-18	3.4	
TA-SED-T6-3	(3.8-4.8)	26-Jun-18	26-Jun-18	TA-SED-T6-3(3.8-4.8)	26-Jun-18	2.6	
TA-SED-T7-1	(0-1)	27-Jun-18	27-Jun-18	TA-SED-T7-1(0-1)	27-Jun-18	3.1	
TA-SED-T7-1	(2-3)	27-Jun-18	27-Jun-18	TA-SED-T7-1(2-3)	27-Jun-18	3.1	
TA-SED-T7-1	(4.2-5.2)	27-Jun-18	27-Jun-18	TA-SED-T7-1(4.2-5.2)	27-Jun-18	0.8	
TA-SED-T7-1	(6.4-7.4)	27-Jun-18	27-Jun-18	TA-SED-T7-1(6.4-7.4)	27-Jun-18	6.8	
TA-SED-T7-2	(0-1)	27-Jun-18	27-Jun-18	TA-SED-T7-2(0-1)	27-Jun-18	2.4	
TA-SED-T7-2	(1-2)	27-Jun-18	27-Jun-18	TA-SED-T7-2(1-2)	27-Jun-18	4.2	
TA-SED-T7-ISLAND	(0-0.5)	9-Jul-18	9-Jul-18	TA-SED-T7-ISLAND(0-0.5)	10-Jul-18	0.0	
TA-SED-T7-ISLAND	(1-2)	13-Jul-18	13-Jul-18	TA-SED-T7-ISLAND(1-2)	13-Jul-18	0.7	
TA-SED-T7-ISLAND	(3-4)	13-Jul-18	13-Jul-18	TA-SED-T7-ISLAND(3-4)	13-Jul-18	0.5	
TA-SED-T7-ISLAND	(6-7)	13-Jul-18	13-Jul-18	TA-SED-T7-ISLAND(6-7)	13-Jul-18	0.4	
TA-SED-T8-1	(0-1)	28-Jun-18	28-Jun-18	TA-SED-T8-1(0-1)	28-Jun-18	0.7	
TA-SED-T8-1	(1.5-2.5)	28-Jun-18	28-Jun-18	TA-SED-T8-1(1.5-2.5)	28-Jun-18	6.5	
TA-SED-T8-1	(4-5)	28-Jun-18	28-Jun-18	TA-SED-T8-1(4-5)	28-Jun-18	3.0	
TA-SED-T8-2	(0-1)	28-Jun-18	28-Jun-18	TA-SED-T8-2(0-1)	28-Jun-18	4.0	
TA-SED-T8-2	(1-2)	28-Jun-18	28-Jun-18	TA-SED-T8-2(1-2)	28-Jun-18	1.3	
TA-SED-T8-2	(3-4.1)	28-Jun-18	28-Jun-18	TA-SED-T8-2(3-4.1)	28-Jun-18	1.5	

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-01	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-02	16	(2-3)	(7-8)		24-Jul-18	2-Aug-18	2-Aug-18	1.9	2.3		<LOD	3.1		404	46		<LOD	<LOD		1304	22.6			
TA-SB-03	13	(6-7)	(12-13)		25-Jul-18	2-Aug-18	2-Aug-18	6.5	19.1		3.5	4		82	1623		<LOD	<LOD		40.5	24.5			
TA-SB-04	15	(7-8)	(12-13)		24-Jul-18	2-Aug-18	2-Aug-18	4.5	10.4		<LOD	3.7		46	48		<LOD	<LOD		7.8	23.2			
TA-SB-05	15	(2-3)	(7-8)		24-Jul-18	3-Aug-18	3-Aug-18	2.9	3.5		4.9	6.9		54	107		<LOD	<LOD		40.4	17.4			
TA-SB-06	8	(2-3)	(7-8)		25-Jul-18	2-Aug-18	2-Aug-18	1.5	2.4		4.3	4.6		34	106		<LOD	<LOD		37.3	53.9			
TA-SB-07	10	(3-4)	(9-10)		26-Jul-18	2-Aug-18	7-Aug-18	25.9	37.3		<LOD	5.6		185	1730		<LOD	<LOD		189.4	50			
TA-SB-08	15	(3-4)	(7-8)		24-Jul-18	2-Aug-18	2-Aug-18	14.8	5.4		27.9	19.3		78	369		<LOD	<LOD		200	41.1			
TA-SB-09	16	(2-3)	(6-7)		25-Jul-18	2-Aug-18	2-Aug-18	3.6	17.5		<LOD	<LOD		21	21		<LOD	<LOD		7.9	10.3			
TA-SB-10	8	(1-2)	(4-5)		24-Jul-18	31-Jul-18	31-Jul-18	2.2	1.4		<LOD	2.9		45	19		<LOD	<LOD		66.9	7.8			
TA-SB-11	8	(1-2)	(6-7)		24-Jul-18	31-Jul-18	31-Jul-18	1.9	2.1		3.9	2		78	19		<LOD	<LOD		28.8	10.7			
TA-SB-12	8	(1-2)	(4-5)		24-Jul-18	31-Jul-18	31-Jul-18	2.5	2.2		2.5	2.1		21	41		<LOD	<LOD		5.9	9.8			
TA-SB-13	8	(1-2)	(6-7)		24-Jul-18	31-Jul-18	31-Jul-18	1.7	1.6		<LOD	8.6		32	66		<LOD	<LOD		14.5	13.3			
TA-SB-14	8	(5-6)	(7-8)		11-Jul-18	31-Jul-18	31-Jul-18	1.5	0.9		<LOD	<LOD		39	25		<LOD	<LOD		10.5	9.8			
TA-SB-15	8	(2-3)	(7-8)		24-Jul-18	31-Jul-18	31-Jul-18	2.0	2.3		<LOD	5.2		24	27		<LOD	<LOD		8.5	10.7			
TA-SB-16	8	(2-3)	(6-7)		13-Jul-18	13-Jul-18	26-Jul-18	6.9	NA		3.7	2.9		38	50		<LOD	<LOD		10.5	16.5			
TA-SB-17	12	(1-2)	(7-8)		11-Jul-18	11-Jul-18	26-Jul-18	1.2	1.6		<LOD	2.8		81	59		<LOD	<LOD		31.7	14.9			
TA-SB-18	10	(2-3)	(6-7)		11-Jul-18	11-Jul-18	26-Jul-18	1.3	2.7		<LOD	<LOD		38	37		<LOD	<LOD		13.3	8.7			
TA-SB-19	12	(3-4)	(7-8)		13-Jul-18	13-Jul-18	26-Jul-18	7.0	7.1		<LOD	2.4		21	22		<LOD	<LOD		9.8	7.9	MS/MSD (3-4)		
TA-SB-20	8	(5-6)	(7-8)		11-Jul-18	11-Jul-18	27-Jul-18	13.9	13.2		13.1	6		3295	93		<LOD	<LOD		150.9	19.3			
TA-SB-21	15	(6-7)	(9-10)		11-Jul-18	31-Jul-18	31-Jul-18	0.4	0.5		2.8	4.3		33	34		<LOD	<LOD		9.2	6.6	Geoprobe boring		
TA-SB-22	15	(2-3)	(8-9)		26-Jul-18	31-Jul-18	31-Jul-18	4.1	3.8		<LOD	<LOD		28	17		<LOD	<LOD		9.7	8.2			
TA-SB-23	17	(6-7)	(9-10)		6-Aug-18	8-Aug-18	8-Aug-18	3.4	NM		31.8	71.9		91337	102630		7.9	<LOD		61.8	41.2			
TA-SB-24	8	(0-1)	(5-6)		17-Jul-18	27-Jul-18	27-Jul-18	2.1	2.5		<LOD	<LOD		4483	211		<LOD	14.7		21.5	27.5			
TA-SB-25	10	(1-2)	(7-8)		19-Jul-18	23-Jul-18	27-Jul-18	1.3	2.4		4	<LOD		198	18		<LOD	<LOD		20.5	5.4	MS/MSD (1-2)		
TA-SB-26	15	(5-6)	(8-9)		20-Jul-18	31-Jul-18	31-Jul-18	1.8	1.0		7.9	<LOD		538	42		3	<LOD		22.6	12.2			
TA-SB-27	15	(1-2)	(8-9)		20-Jul-18	30-Jul-18	7-Aug-18	0.8	2.1		<LOD	NA		16	NA		<LOD	NA		6.3	NA	Duplicate (1-2), Geoprobe boring		
TA-SB-28	10	(2-3)	(6-7)		19-Jul-18	27-Jul-18	27-Jul-18	2.4	3.6		1.8	<LOD		26	30		<LOD	<LOD		7.8	7.5			
TA-SB-29	12	(2-3)	(9-10)		23-Jul-18	30-Jul-18	30-Jul-18	1.6	1.8		<LOD	<LOD		26	29		<LOD	<LOD		5.3	8.2	MS/MSD (2-3)		
TA-SB-30	15	(2-3)	(13-14)		20-Jul-18	31-Jul-18	30-Jul-18	1.2	129.5		5.7	<LOD		117	53		<LOD	<LOD		68	9.2			
TA-SB-31	15	(2-3)	(7-8)		24-Jul-18	27-Jul-18	27-Jul-18	6.1	13.6		20.2	40		158	259		<LOD	<LOD		194	317			
TA-SB-32	20	(2-3)	(9-10)		24-Jul-18	27-Jul-18	27-Jul-18	10.6	4.2		2.3	4.7		23	72		<LOD	3.8		8.3	17.6	Duplicate (2-3)		
TA-SB-33	10	(1-2)	(7-8)		19-Jul-18	26-Jul-18	27-Jul-18	2.0	2.5		33.8	71		733	4579		7.4	21		153	41			
TA-SB-34	8	(3-4)	(6-7)		19-Jul-18	27-Jul-18	27-Jul-18	4.4	3.0		100	24		819	385		30	4.2		250	146			
TA-SB-35	8	(2-3)	(6-7)		17-Jul-18	26-Jul-18	26-Jul-18	1.2	1.7		<LOD	8.2		295	432		6.8	<LOD		2561	18.8			
TA-SB-36	8	(2-3)	(5-6)		17-Jul-18	26-Jul-18	26-Jul-18	2																

**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-46	10	(8-9)	(9-10)		19-Jul-18	27-Jul-18	27-Jul-18	NA	NA		1.9	5.8		24	40		<LOD	<LOD		6.3	8.1			
TA-SB-47	8	(3-4)	(5-6)		23-Jul-18	30-Jul-18	30-Jul-18	1.6	1.2		6.6	<LOD		91	52		<LOD	<LOD		113	17.1			
TA-SB-48	12	(1-2)	(10-11)		23-Jul-18	27-Jul-18	27-Jul-18	1.3	1.3		<LOD	<LOD		32	21		<LOD	<LOD		24.9	5.9			
TA-SB-49	12	(3-4)	(7-8)		19-Jul-18	30-Jul-18	30-Jul-18	1.3	1.8		<LOD	1.6		24	13		<LOD	<LOD		7.8	3.6			
TA-SB-50	8	(2-3)	(7-8)		19-Jul-18	31-Jul-18	31-Jul-18	0.6	1.0		2.9	<LOD		24	22		<LOD	<LOD		14.2	8.1			
TA-SB-51	12	(2-3)	(6-7)		23-Jul-18	30-Jul-18	30-Jul-18	1.4	1.3		2.5	6.8		28	30		<LOD	<LOD		8.4	5			
TA-SB-52	12	(1-2)	(6-7)		23-Jul-18	30-Jul-18	30-Jul-18	1.8	2.3		8.1	18.1		87	59		<LOD	<LOD		81.3	10.4			
TA-SB-53	10	(0-1)	(7-8)	(5-6)	16-Jul-18	16-Jul-18	19-Jul-18	0.9	0.1	1.2	19.3	6.7	4.7	195	165	157	4.8	3.4	3.6	101.8	43.7	29.3		
TA-SB-54	10	(0-1)	(3-4)		16-Jul-18	16-Jul-18	18-Jul-18	1.1	1.2		14.9	<LOD		51	21		4.4	<LOD		215	7			
TA-SB-55	10	(1-2)	(5-6)		16-Jul-18	16-Jul-18	18-Jul-18	0.5	0.5		14.2	<LOD		49	37		<LOD	<LOD		120	19.5		MS/MSD(1-2)	
TA-SB-56	10	(1-2)	NA		16-Jul-18	18-Jul-18	1-Aug-18	2.0	NA		17	NA		47	NA		<LOD	NA		388	NA			
TA-SB-57	8	(2-3)	(6-7)		19-Jul-18	30-Jul-18	30-Jul-18	3.6	3.2		2.5	5.8		25	22		<LOD	<LOD		12.3	10			
TA-SB-58	15	(7-8)	(12-13)		19-Jul-18	6-Aug-18	7-Aug-18	8.9	8.2		4	3		35	36		<LOD	<LOD		56.5	7			
TA-SB-59	16	(2-3)	(11-12)		24-Jul-18	25-Jul-18	27-Jul-18	0.7	6.8		16	3.9		901	21		6.2	<LOD		330	5.2			
TA-SB-60	10	(7-8)	(8-9)		16-Jul-18	18-Jul-18	18-Jul-18	1.1	2.4		97	5.5		35	34		<LOD	<LOD		1407	136.1			
TA-SB-61	8	(5-6)	(7-8)		11-Jul-18	17-Jul-18	17-Jul-18	12.1	12.8		<LOD	3.6		1189	47		<LOD	<LOD		136.5	17		No equipment installed	
																								Exploration advanced with hand auger from 0 to 4.7 feet, followed by direct push to 8 feet.
TA-SB-62	8	(3-4)	(5-6)		11-Jul-18	17-Jul-18	17-Jul-18	1.1	10.4		6	<LOD		265	141		<LOD	<LOD		46.8	59.6			
TA-SB-63	8	(1-2)	(7-8)		11-Jul-18	17-Jul-18	17-Jul-18	10.0	9.8		<LOD	<LOD		90	647		<LOD	<LOD		36.2	15.6			
TA-SB-64	4.5	(0-1)	(4-5)		11-Jul-18	19-Jul-18	19-Jul-18	18.9	14.2		2.6	6.4		38	327		<LOD	<LOD		11.6	94		Geoprobe boring	
TA-SB-65	7	(1-2)	(4-5)		10-Jul-18	26-Jul-18	18-Jul-18	3.8	2.0		3.5	10.9		1024	3253		<LOD	<LOD		44.3	147.3		DUP (1-2)	
TA-SB-66	3	(0-1)	(2-3)		10-Jul-18	27-Jul-18	27-Jul-18	5.6	5.5		9.1	39		365	1620		<LOD	<LOD		63.3	308		Geoprobe boring	
TA-SB-67	8	(0-1)	(5-6)		10-Jul-18	23-Jul-18	23-Jul-18	3.3	2.5		4.4	<LOD		93	41		3.2	<LOD		38.7	12.7			
TA-SB-68	3.8	(1-2)	(3-4)		9-Jul-18	9-Jul-18	10-Jul-18	2.1	29.3		13.7	11.8		223	367		<LOD	<LOD		117.8	28.1			
TA-SB-69	5	(2-3)	(4-5)		10-Jul-18	10-Jul-18	10-Jul-18	0.1	NA		20.7	NA		1041	NA		8.6	NA		102.2	NA			
TA-SB-70	12	(0-1)	(5-6)		12-Jul-18	17-Jul-18	17-Jul-18	10.3	20.6		8.8	18.3		944	74		<LOD	5.3		69	129.9			Geoprobe Boring
TA-SB-70(HA)	5	NA	NA		9-Jul-18	9-Jul-18																		Hand Auger Boring
TA-SB-71	8	(1-2)	(3-4)		10-Jul-18	20-Jul-18	20-Jul-18	0.7	1.0		13.2	2.3		72	42		<LOD	<LOD		139	12.8		MS/MSD (1-2)	
TA-SB-72	8	(1-2)	(3-4)		10-Jul-18	20-Jul-18	20-Jul-18	0.9	0.6		6.6	3.7		258	172		<LOD	<LOD		168	21		DUP (1-2)	
TA-SB-73	8	(1-2)	(6-7)		11-Jul-18	20-Jul-18	20-Jul-18	1.3	1.4		6.9	3.1		139	46		4.3	<LOD		51.2	10.8			
TA-SB-74	8	(1-2)	(5-6)		11-Jul-18	20-Jul-18	20-Jul-18	0.8	0.5		13.6	2.3		354	32.3		2.7	<LOD		52.5	10			
TA-SB-75	12	(5-6)	(7-8)		11-Jul-18	18-Jul-18	18-Jul-18	2.5	3.8		39.9	5.7		1310	318		10.6	<LOD		204	25.6		Advanced 9' with hand auger, 9-12' with geoprobe	
TA-SB-76	12	(1-2)	(7-8)		12-Jul-18	16-Jul-18	18-Jul-18	6.6	2.2		15.6	<LOD		716	2040		8.9	<LOD		175	1025		MS/MSD (1-2)	
TA-SB-77	12	(2-3)	(5-6)		12-Jul-18	17-Jul-18	17-Jul-18	10.8	9.0		47.2	2.9		366	39		19.5	<LOD		66.8	12.6			
TA-SB-78	12	(5-6)	(6-7)		12-Jul-18	16-Jul-18	16-Jul-18	15.1	13.8		36.8	99		1158	1479		3.1	<LOD		44.8	32			
TA-SB-79	12	(2-3)	(4-5)		12-Jul-18	16-Jul-18	16-Jul-18	11.8	9.5		<LOD	29.7												

Table B  
Soil Sampling Locations Completed

Location ID	Expl Depth (ft)	Lab	Lab	Lab	Date Samples Sent to Lab	PID Reading for Samples Analyzed	XRF Results for Samples Analyzed												Additional Notes			
		Sample S1 (ft)	Sample S2 (ft)	Sample S3 (ft)			S1	S2	S3	As			Cr			Hg			Pb			
		S1	S2	S3			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-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			
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

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Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-4-2	TA-SED-4-2	TA-SED-4-2	TA-SED-8-2	TA-SED-8-2	TA-SED-8-2	TA-SED-BOAT RAMP
Sample Name		TA-SED-4-2 (0-1)	TA-SED-4-2 (1-2)	TA-SED-4-2 (2-3)	TA-SED-8-2 (0-1)	TA-SED-8-2 (1-2)	TA-SED-8-2 (3-4.1)	TA-SED-BOAT RAMP (0-1)
Depth Interval (feet)		0 - 1	1 - 2	2 - 3	0 - 1	1 - 2	3 - 4.1	0 - 1
Sample Date		6/29/2018	6/29/2018	6/29/2018	6/28/2018	6/28/2018	6/28/2018	7/2/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<5.6	<2.4	<1.7	<1.3	<1.5	<1.4	<3.9
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<5.6	<2.4	<1.7	<1.3	<1.5	<1.4	<3.9
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<5.6	3	<1.7	<1.3	<1.5	<1.4	<3.9
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<5.6	<2.4	<1.7	<1.3	<1.5	<1.4	<3.9
Perfluoro-1-butanesulfonate (PFBS)	NA	<2.8	1.5	3.6	<0.65	<0.75	<0.69	<2
Perfluoro-n-butanoic acid (PFBA)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-n-decanoic acid (PFDA)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-n-dodecanoic acid (PFDa)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-1-heptanesulfonate (PFHps)	NA	<2.8	<1.2	1.2	<0.65	<0.75	<0.69	<2
Perfluoro-n-heptanoic acid (PFHpA)	NA	<2.8	1.9	2.7	<0.65	<0.75	<0.69	<2
Perfluorohexanesulfonate (PFHxS)	NA	<2.8	3.7	6.8	<0.65	<0.75	<0.69	<2
Perfluoro-n-hexanoic acid (PFHxA)	NA	<2.8	1.4	2.4	<0.65	<0.75	<0.69	<2
Perfluoro-n-nonanoic acid (PFNA)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<2.8	5.8	<0.84	<0.65	<0.75	<0.69	<2
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<b>78</b>	<b>44</b>	<b>24</b>	<0.65	<0.75	<0.69	<b>14</b>
Perfluoro-n-octanoic acid (PFOA)	10,000	4	10	22	<0.65	<0.75	<0.69	<2
Perfluoro-n-pentanoic acid (PFPeA)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-n-undecanoic acid (PFUdA)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-1-decanesulfonate (PFDS)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-1-nonanesulfonate (PFNS)	NA	<2.8	<1.2	<0.84	<0.65	<0.75	<0.69	<2
Perfluoro-1-pentanesulfonate (PPeS)	NA	<2.8	<1.2	1.2	<0.65	<0.75	<0.69	<2

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

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Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-BOAT RAMP	TA-SED-RC ACCESS	TA-SED-RC ACCESS	TA-SED-RC-1	TA-SED-RC-1	TA-SED-RC-2	TA-SED-RC-2
		TA-SED-BOAT RAMP (1-1.9)	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)
		1 - 1.9	0 - 1	1.5 - 2.5	0 - 1	1.2 - 2.2	0 - 1	1 - 2
Sample Name		7/2/2018	7/2/2018	7/2/2018	7/2/2018	7/2/2018	7/2/2018	7/2/2018
Depth Interval (feet)								
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.9	<1.7	<1.6	<1.4	<2.8	<1.1	<1.1
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.9	<1.7	<1.6	<1.4	<2.8	<1.1	<1.1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.9	<1.7	<1.6	<1.4	<2.8	<1.1	<1.1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.9	<1.7	<1.6	<1.4	<2.8	<1.1	<1.1
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.94	<0.86	<0.81	<0.68	3.7	<0.54	0.56
Perfluoro-n-butanoic acid (PFBA)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-n-decanoic acid (PFDA)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-n-dodecanoic acid (PFDa)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-1-heptanesulfonate (PFHps)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.94	<0.86	<0.81	<0.68	2.1	<0.54	<0.54
Perfluorohexanesulfonate (PFHxS)	NA	<0.94	<0.86	1.2	<0.68	9.4	<0.54	0.89
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.94	<0.86	<0.81	<0.68	2.1	<0.54	<0.54
Perfluoro-n-nonanoic acid (PFNA)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	0.78
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<b>4.9</b>	<b>25</b>	<0.81	<b>1.9</b>	<b>22</b>	<b>0.77</b>	<b>45</b>
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.94	1.3	4	<0.68	13	<0.54	3.4
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<0.94	<0.86	<0.81	<0.68	<1.4	<0.54	<0.54

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

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Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-RC-2	TA-SED-RC-3	TA-SED-T1-1	TA-SED-T1-1	TA-SED-T1-3	TA-SED-T1-3	TA-SED-T2-1
Sample Name		TA-SED-RC-2 (2-3)	TA-SED-RC-3 (0-0.4)	TA-SED-T1-1 (0-1)	TA-SED-T1-1 (0-1) DUP	TA-SED-T1-3 (0-1)	TA-SED-T1-3 (0-1) DUP	TA-SED-T2-1 (0-1)
Depth Interval (feet)		2 - 3	0 - 0.4	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1
Sample Date		7/2/2018	7/2/2018	7/24/2018	7/24/2018	7/24/2018	7/24/2018	6/22/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.2	<1.1	<1.4	<1.1	<1.2	<1.1	7.6
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.2	<1.1	<1.4	<1.1	<1.2	<1.1	<1.9
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.2	<1.1	<1.4	<1.1	<1.2	<1.1	<1.9
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.2	<1.1	<1.4	<1.1	<1.2	<1.1	<1.9
Perfluoro-1-butanesulfonate (PFBS)	NA	1.2	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-butanoic acid (PFBA)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-decanoic acid (PFDA)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-dodecanoic acid (PFDaO)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-1-heptanesulfonate (PFHps)	NA	1.1	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluorohexanesulfonate (PFHxS)	NA	1.2	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-hexanoic acid (PFHxA)	NA	0.79	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-nonanoic acid (PFNA)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<b>130</b>	<b>3</b>	<b>1.4</b>	<0.55	<0.62	<0.55	<b>1.1</b>
Perfluoro-n-octanoic acid (PFOA)	10,000	4.8	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<0.6	<0.53	<0.69	<0.55	<0.62	<0.55	<0.96

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

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Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	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
Sample Name		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)
Depth Interval (feet)		2 - 3	4 - 5	0 - 1	0 - 1	2 - 3	4 - 5	0 - 1
Sample Date		6/22/2018	6/22/2018	6/25/2018	6/25/2018	6/25/2018	6/25/2018	6/22/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.7	<1.5	<1.2	<0.97	<0.97	<1.2	<1.1
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.7	<1.5	<1.2	<0.97	<0.97	<1.2	<1.1
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.7	<1.5	<1.2	<0.97	<0.97	<1.2	<1.1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.7	<1.5	<1.2	<0.97	<0.97	<1.2	<1.1
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-butanoic acid (PFBA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-decanoic acid (PFDA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-dodecanoic acid (PFDoA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-1-heptanesulfonate (PFHps)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluorohexanesulfonate (PFHxS)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-nonanoic acid (PFNA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<0.85	<0.73	<0.6	<0.48	<0.48	<0.58	<0.53

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

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Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T2-3	TA-SED-T2-3	TA-SED-T3-1A	TA-SED-T3-1A	TA-SED-T3-1A	TA-SED-T3-2	TA-SED-T3-2
Sample Name		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)	TA-SED-T3-2 (1.7-2.7)
Depth Interval (feet)		2 - 3	4 - 5	0 - 1	2 - 3	5 - 6	0 - 1.2	1.7 - 2.7
Sample Date		6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/22/2018	6/21/2018	6/21/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.6	<1.2	<3.5	<1.7	<1.2	<0.98	<2.3
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.6	<1.2	<3.5	<1.7	<1.2	<0.98	<2.3
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.6	<1.2	<3.5	<1.7	<1.2	<0.98	<2.3
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.6	<1.2	<3.5	<1.7	<1.2	<0.98	<2.3
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-butanoic acid (PFBA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-decanoic acid (PFDA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-dodecanoic acid (PFDoA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-1-heptanesulfonate (PFHps)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluorohexanesulfonate (PFHxS)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-nananoic acid (PFNA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.78	<0.6	<b>3</b>	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<0.78	<0.6	<1.8	<0.86	<0.58	<0.49	<1.2

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

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Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T3-2	TA-SED-T3-2	TA-SED-T3-3	TA-SED-T3-3	TA-SED-T3-3	TA-SED-T4-1	TA-SED-T4-1
Sample Name		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)
Depth Interval (feet)		4 - 5	6.2 - 7.2	0 - 1	2 - 3	5 - 6	0 - 1	2.5 - 3.5
Sample Date		6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/21/2018	6/25/2018	6/25/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.5	<1.7	<2.1	<2	<1.7	<1	<1.4
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.5	<1.7	<2.1	<2	<1.7	<1	<1.4
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.5	<1.7	<2.1	2.7	<1.7	<1	<1.4
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.5	<1.7	<2.1	<2	<1.7	<1	<1.4
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-butanoic acid (PFBA)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-decanoic acid (PFDA)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-dodecanoic acid (PFDa)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-1-heptanesulfonate (PFHps)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluorohexanesulfonate (PFHxS)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-nananoic acid (PFNA)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.74	<0.86	<1.1	1.1	<0.84	<0.52	<0.68
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.74	<0.86	<b>2.2</b>	<b>1.9</b>	<0.84	<0.52	<b>2</b>
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<0.74	<0.86	<1.1	<1	<0.84	<0.52	<0.68

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

Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T4-1	TA-SED-T4-3	TA-SED-T4-3	TA-SED-T5-1	TA-SED-T5-1	TA-SED-T5-2	TA-SED-T5-2
Sample Name		TA-SED-T4-1 (3.5-4.5)	TA-SED-T4-3 (0-1)	TA-SED-T4-3 (1-1.7)	TA-SED-T5-1 (0-1)	TA-SED-T5-1 (1-2)	TA-SED-T5-2 (0-1)	TA-SED-T5-2 (1.7-2.7)
Depth Interval (feet)		3.5 - 4.5	0 - 1	1 - 1.7	0 - 1	1 - 2	0 - 1	1.7 - 2.7
Sample Date		6/25/2018	7/2/2018	7/2/2018	6/25/2018	6/25/2018	6/26/2018	6/26/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.1	<8.6	<4.5	<0.97	<1	<1	<0.97
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.1	<8.6	<4.5	<0.97	<1	<1	<0.97
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.1	<8.6	4.8	<0.97	<1	<1	<0.97
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.1	<8.6	<4.5	<0.97	<1	<1	<0.97
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-butanoic acid (PFBA)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-decanoic acid (PFDA)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-dodecanoic acid (PFDa)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-1-heptanesulfonate (PFHps)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluorohexanesulfonate (PFHxS)	NA	<0.56	5.5	3.6	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-nananoic acid (PFNA)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.56	10	20	<0.48	<0.52	<0.5	<0.48
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.56	<b>170</b>	<b>62</b>	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.56	17	8.7	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48
Perfluoro-1-pentanesulfonate (PPeS)	NA	<0.56	<4.3	<2.2	<0.48	<0.52	<0.5	<0.48

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

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8/29/2018

Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T5-2	TA-SED-T5-3	TA-SED-T5-3	TA-SED-T5-3	TA-SED-T5-3	TA-SED-T6-1	TA-SED-T6-1
Sample Name	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)	
Depth Interval (feet)	3.7 - 4.7	0 - 1	2 - 3	4 - 5	6 - 7	0 - 1	2.5 - 3.5	
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
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.3	<1.7	<1.1	<1.5	<1.3	<1.8	<1.3
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.3	<1.7	<1.1	<1.5	<1.3	<1.8	<1.3
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.3	<1.7	<1.1	<1.5	<1.3	<1.8	<1.3
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.3	<1.7	<1.1	<1.5	<1.3	<1.8	<1.3
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-butanoic acid (PFBA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-decanoic acid (PFDA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-dodecanoic acid (PFDa)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-1-heptanesulfonate (PFHps)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluorohexanesulfonate (PFHxS)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-nananoic acid (PFNA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.66	<b>1.3</b>	<0.53	<0.76	<0.66	<b>1.2</b>	<0.64
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<0.66	<0.84	<0.53	<0.76	<0.66	<0.91	<0.64

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

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Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T6-1	TA-SED-T6-2	TA-SED-T6-2	TA-SED-T6-2	TA-SED-T6-2	TA-SED-T6-3	TA-SED-T6-3
Sample Name	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-T6-2 (6.4-7.4)	TA-SED-T6-3 (0-1)	TA-SED-T6-3 (2-3)	
Depth Interval (feet)	4.1 - 5.1	0 - 1	2 - 3	3.6 - 4.6	6.4 - 7.4	0 - 1	2 - 3	
Sample Date	6/26/2018	6/27/2018	6/27/2018	6/27/2018	6/27/2018	6/26/2018	6/26/2018	
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.4	<0.99	<0.98	<1.6	<1.3	<1.2	<1.3
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.4	<0.99	<0.98	<1.6	<1.3	<1.2	<1.3
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.4	<0.99	<0.98	<1.6	<1.3	<1.2	<1.3
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.4	<0.99	<0.98	<1.6	<1.3	<1.2	<1.3
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-butanoic acid (PFBA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-decanoic acid (PFDA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-dodecanoic acid (PFDa)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-1-heptanesulfonate (PFHps)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluorohexanesulfonate (PFHxS)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-nananoic acid (PFNA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.68	<0.49	<0.49	<0.81	<0.66	<b>1.2</b>	<0.67
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67
Perfluoro-1-pentanesulfonate (PPeS)	NA	<0.68	<0.49	<0.49	<0.81	<0.66	<0.62	<0.67

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

Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T6-3	TA-SED-T7-1	TA-SED-T7-1	TA-SED-T7-1	TA-SED-T7-2	TA-SED-T7-2	TA-SED-T7-ISLAND
Sample Name		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)	TA-SED-T7-2 (0-1)	TA-SED-T7-2 (1-2)	TA-SED-T7-ISLAND (0-0.5)
Depth Interval (feet)		3.8 - 4.8	0 - 1	2 - 3	4.2 - 5.2	0 - 1	1 - 2	0 - 0.5
Sample Date		6/26/2018	6/27/2018	6/27/2018	6/27/2018	6/27/2018	6/27/2018	7/9/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.8	<0.9	<1.7	<1.4	<3.6	<2.3	<1.5
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.8	<0.9	<1.7	<1.4	<3.6	<2.3	<1.5
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.8	<0.9	<1.7	<1.4	<3.6	<2.3	<1.5
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.8	<0.9	<1.7	<1.4	<3.6	<2.3	<1.5
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	1.8	<0.73
Perfluoro-n-butanoic acid (PFBA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-n-decanoic acid (PFDA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-n-dodecanoic acid (PFDa)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-1-heptanesulfonate (PFHps)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	1.2	<0.73
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	2.4	<0.73
Perfluorohexanesulfonate (PFHxS)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	2.6	<0.73
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	2	<0.73
Perfluoro-n-nananoic acid (PFNA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<0.88	<0.45	<0.87	<0.69	<b>2.2</b>	<1.2	<b>3.7</b>
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.88	<0.45	<0.87	<0.69	<1.8	7.9	<0.73
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73
Perfluoro-1-pentanesulfonate (PPeS)	NA	<0.88	<0.45	<0.87	<0.69	<1.8	<1.2	<0.73

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

Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T8-1	TA-SED-T8-1	TA-SED-T8-1	TA-SED-T8-3	TA-SED-T8-3	TA-SED-T8-3	TA-SED-T8-3
Sample Name	TA-SED-T8-1 (0-1)	TA-SED-T8-1 (1.5-2.5)	TA-SED-T8-1 (4-5)	TA-SED-T8-3 (0-1)	TA-SED-T8-3 (1.5-2.5)	TA-SED-T8-3DUP (1.5-2.5)	TA-SED-T8-3 (3-4)	
Depth Interval (feet)	0 - 1	1.5 - 2.5	4 - 5	0 - 1	1.5 - 2.5	1.5 - 2.5	3 - 4	
Sample Date	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018	
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<2.8	<1.8	<1.4	<1.7	<2.9	<1.9	<1.8
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<2.8	<1.8	<1.4	<1.7	<2.9	<1.9	<1.8
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<2.8	<1.8	<1.4	<1.7	<2.9	<1.9	<1.8
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<2.8	<1.8	<1.4	<1.7	<2.9	<1.9	<1.8
Perfluoro-1-butanesulfonate (PFBS)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-n-butanoic acid (PFBA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-n-decanoic acid (PFDA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-n-dodecanoic acid (PFDa)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-1-heptanesulfonate (PFHps)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-n-heptanoic acid (PFHpA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluorohexanesulfonate (PFHxS)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-n-hexanoic acid (PFHxA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-n-nananoic acid (PFNA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<1.4	<b>1.7</b>	<0.68	<0.84	<1.4	<b>1.2</b>	<0.89
Perfluoro-n-octanoic acid (PFOA)	10,000	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	1.6
Perfluoro-n-pentanoic acid (PFPeA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-n-undecanoic acid (PFUdA)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-1-decanesulfonate (PFDS)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-1-nonanesulfonate (PFNS)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<1.4	<0.92	<0.68	<0.84	<1.4	<0.96	<0.89

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

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8/29/2018

Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T9-1	TA-SED-T9-1	TA-SED-T9-1	TA-SED-T9-2	TA-SED-T9-2	TA-SED-T9-2	TA-SED-T9-2
		TA-SED-T9-1 (0-1)	TA-SED-T9-1 (2-3)	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)
		0 - 1	2 - 3	4 - 5	0 - 1	2 - 3	4 - 5	5 - 6
Sample Name								
Depth Interval (feet)								
Sample Date		6/29/2018	6/29/2018	6/29/2018	6/28/2018	6/28/2018	6/28/2018	6/28/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<3.3	<1.8	<1.6	<1.8	<1.9	<1.3	<1.7
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<3.3	<1.8	<1.6	<1.8	<1.9	<1.3	<1.7
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<3.3	<1.8	<1.6	<1.8	<1.9	<1.3	<1.7
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<3.3	<1.8	<1.6	<1.8	<1.9	<1.3	<1.7
Perfluoro-1-butanesulfonate (PFBS)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-butanoic acid (PFBA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-decanoic acid (PFDA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-dodecanoic acid (PFDa)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-1-heptanesulfonate (PFHps)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-heptanoic acid (PFHpA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluorohexanesulfonate (PFHxS)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-hexanoic acid (PFHxA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-nananoic acid (PFNA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<b>1.7</b>	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-octanoic acid (PFOA)	10,000	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-pentanoic acid (PFPeA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-n-undecanoic acid (PFUdA)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-1-decanesulfonate (PFDS)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-1-nonanesulfonate (PFNS)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86
Perfluoro-1-pentanesulfonate (PFPeS)	NA	<1.6	<0.9	<0.8	<0.88	<0.94	<0.65	<0.86

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

Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T9-3	TA-SED-T10-1	TA-SED-T10-1	TA-SED-T10-1	TA-SED-T10-1	TA-SED-T10-3	TA-SED-T10-3
Sample Name	TA-SED-T9-3 (0-1)	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-T10-3 (1-2)
Depth Interval (feet)	0 - 1	0 - 1	1.5 - 2.5	1.5 - 2.5	3 - 4	0 - 1	1 - 2	1 - 2
Sample Date	6/29/2018	6/29/2018	6/29/2018	6/29/2018	6/29/2018	6/29/2018	6/29/2018	6/29/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<4	<2.6	<1.4	<1.2	<2.5	<3	<1.7
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<4	<2.6	<1.4	<1.2	<2.5	<3	<1.7
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<4	<2.6	<1.4	<1.2	<2.5	<3	<1.7
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<4	<2.6	<1.4	<1.2	<2.5	<3	<1.7
Perfluoro-1-butanesulfonate (PFBS)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-butanoic acid (PFBA)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-decanoic acid (PFDA)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-dodecanoic acid (PFDa)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-1-heptanesulfonate (PFHps)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-heptanoic acid (PFHpA)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluorohexanesulfonate (PFHxS)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-hexanoic acid (PFHxA)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-nananoic acid (PFNA)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<2	<1.3	<0.69	<0.61	<1.3	6.5	<0.86
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<b>18</b>	<b>1.3</b>	<0.69	<0.61	<1.3	<b>35</b>	<b>2</b>
Perfluoro-n-octanoic acid (PFOA)	10,000	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-pentanoic acid (PFPeA)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-n-undecanoic acid (PFUdA)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-1-decanesulfonate (PFDS)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-1-nonanesulfonate (PFNS)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86
Perfluoro-1-pentanesulfonate (PPeS)	NA	<2	<1.3	<0.69	<0.61	<1.3	<1.5	<0.86

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

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8/29/2018

Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-EASTDAM	TA-SED-T4-ISLAND	TA-SED-T4-ISLAND	TA-SED-T4-ISLAND	TA-SED-T7-ISLAND	TA-SED-T7-ISLAND	TA-SED-T7-ISLAND
		TA-SED-EASTDAM(0-0.5)	TA-SED-T4-ISLAND(0-0.5)	TA-SED-T4-ISLAND(4-5)	TA-SED-T4-ISLAND(6-7)	TA-SED-T7-ISLAND(1-2)	TA-SED-T7-ISLAND(3-4)	TA-SED-T7-ISLAND(6-7)
Sample Name		0 - 0.5	0 - 0.5	4 - 5	6 - 7	1 - 2	3 - 4	6 - 7
Depth Interval (feet)								
Sample Date		7/23/2018	7/11/2018	7/12/2018	7/12/2018	7/13/2018	7/13/2018	7/13/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<1.1	<4.5	<2.2	<0.86	<1.6	<1.8	<1.4
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<1.1	<4.5	<2.2	<0.86	<1.6	<1.8	<1.4
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<1.1	<4.5	<2.2	<0.86	<1.6	<1.8	<1.4
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<1.1	<4.5	<2.2	<0.86	<1.6	<1.8	<1.4
Perfluoro-1-butanesulfonate (PFBS)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-butanoic acid (PFBA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-decanoic acid (PFDA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-dodecanoic acid (PFDa)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-1-heptanesulfonate (PFHps)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-heptanoic acid (PFHpA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluorohexanesulfonate (PFHxS)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-hexanoic acid (PFHxA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-nananoic acid (PFNA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<b>6.8</b>	<b>55</b>	<b>4.1</b>	<0.43	<b>1.6</b>	<0.89	<0.69
Perfluoro-n-octanoic acid (PFOA)	10,000	<0.57	3.7	1.5	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-pentanoic acid (PFPeA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-n-undecanoic acid (PFUdA)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-1-decanesulfonate (PFDS)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-1-nonanesulfonate (PFNS)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69
Perfluoro-1-pentanesulfonate (PPeS)	NA	<0.57	<2.2	<1.1	<0.43	<0.79	<0.89	<0.69

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

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8/29/2018

Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SED-T9-ISLAND	TA-SED-T9-ISLAND	TA-SED-T9-ISLAND	TA-SED-T9-ISLAND	TA-SED-T10-ISLAND	TA-SED-T10-ISLAND	TA-SED-T10-ISLAND
		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)	TA-SED-T10-ISLAND(0-1)	TA-SED-T10-ISLAND(2-3)	TA-SED-T10-ISLAND(4-5)
		0 - 0.5	1 - 2	4 - 5	6.5 - 7.5	0 - 1	2 - 3	4 - 5
Sample Name								
Depth Interval (feet)								
Sample Date		7/13/2018	7/13/2018	7/13/2018	7/13/2018	7/23/2018	7/23/2018	7/23/2018
Parameter (ug/kg)								
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	<3.1	<3.3	<1.8	<1.5	<1.5	<1.7	<1.3
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	<3.1	<3.3	<1.8	<1.5	<1.5	<1.7	<1.3
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	<3.1	<3.3	<1.8	<1.5	<1.5	<1.7	<1.3
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	<3.1	<3.3	<1.8	<1.5	<1.5	<1.7	<1.3
Perfluoro-1-butanesulfonate (PFBS)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-n-butanoic acid (PFBA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-n-decanoic acid (PFDA)	NA	<1.5	<1.6	<0.91	<0.77	0.85	<0.87	<0.64
Perfluoro-n-dodecanoic acid (PFDoA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-1-heptanesulfonate (PFHps)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-n-heptanoic acid (PFHpA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluorohexanesulfonate (PFHxS)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-n-hexanoic acid (PFHxA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-n-nananoic acid (PFNA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-1-octanesulfonamide (PFOSA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	3	<0.64
<b>Perfluorooctanesulfonate (PFOS)</b>	0.24	<b>15</b>	<b>20</b>	<0.91	<0.77	<b>20</b>	<b>14</b>	<0.64
Perfluoro-n-octanoic acid (PFOA)	10,000	2.4	2	<0.91	<0.77	1.3	<0.87	<0.64
Perfluoro-n-pentanoic acid (PFPeA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-n-undecanoic acid (PFUdA)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-1-decanesulfonate (PFDS)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-1-nonanesulfonate (PFNS)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64
Perfluoro-1-pentanesulfonate (PPeS)	NA	<1.5	<1.6	<0.91	<0.77	<0.74	<0.87	<0.64

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

16.0062335.02  
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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.  
"H" denotes the sample was analyzed out of holding time.  
"DUP" indicates a duplicate sample.
3. USEPA Region 5 Ecological Screening Levels for sediment was based on "USEPA, Region 5, RCRA Ecological Screening Levels," dated August 22, 2003. No sediment screening levels are available for PFAS and Michigan Part 201 soil cleanup criteria are shown for comparison purposes.
4. 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.
5. **BOLD, Italic** number with a thick border indicates that the compound was detected greater than one of the listed cleanup criteria. For metals and cyanide, **BOLD, Italic** number with a thick border and shading indicates that the compound was detected at a concentration greater than both the statewide background, if available, and the most restrictive Part

**TABLE 2**  
 SUMMARY OF SOIL SAMPLE ANALYSIS - PFAS  
 Former Tannery  
 Rockford, Michigan

Location Name	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF DRINKING WATER USES - RESIDENTIAL	MDEQ PART 201 SOIL CRITERIA PROTECTIVE OF GROUNDWATER SURFACE WATER INTERFACE	TA-SB-68	TA-SB-68	TA-SB-69	TA-SB-69	TA-SB-AOC-H-01
			TA-SB-68 (1-2)	TA-SB-68 (3-4)	TA-SB-69 (2-3)	TA-SB-69 (4-5)	TA-SB-AOC-H-01 (2-3)
			1 - 2	3 - 4	2 - 3	4 - 5	2 - 3
Sample Date			7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018
Parameter (ug/kg)							
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<14	<12	<13	<10	<12
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<14	<12	<13	<10	<12
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.8	<2.3	<2.7	<2	<2.4
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.8	<2.3	<2.7	<2	<2.4
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-1-heptanesulfonate (PFHps)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluorohexanesulfonate (PFHxs)	NA	NA	<7.1	<5.8	<6.7	<5	17
Perfluoro-n-hexanoic acid (PFHxa)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-n-nonanoic acid (PFNa)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<7.1	<5.8	<6.7	<5	31
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>13</b>	<b>160</b>	<b>87</b>	<b>110</b>	<b>480</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<7.1	<5.8	<6.7	<5	53
Perfluoro-n-pentanoic acid (PFPeA)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-1-decanesulfonate (PDS)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1
Perfluoro-1-pentanesulfonate (PPeS)	NA	NA	<7.1	<5.8	<6.7	<5	<6.1

**TABLE 2**  
 SUMMARY OF SOIL SAMPLE ANALYSIS - PFAS  
 Former Tannery  
 Rockford, Michigan

Location Name	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-01	TA-SB-AOC-H-02	TA-SB-AOC-H-02	TA-SB-AOC-H-03	TA-SB-AOC-H-03
Sample Name			TA-SB-AOC-H-01	TA-SB-AOC-H-02 (4-5)	TA-SB-AOC-H-02 (2-3)	TA-SB-AOC-H-03 (6-7)	TA-SB-AOC-H-03 (2-2.5)
Depth Interval (feet)			4 - 5	2 - 3	6 - 7	2 - 2.5	5 - 6
Sample Date			7/10/2018	7/10/2018	7/10/2018	7/10/2018	7/10/2018
Parameter (ug/kg)							
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<11	<11	<12	<16	<12
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<11	<11	<12	<16	<12
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.3	<2.1	<2.4	<3.1	<2.4
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.3	<2.1	<2.4	<3.1	<2.4
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-1-heptanesulfonate (PFHps)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluorohexanesulfonate (PFHxs)	NA	NA	<5.7	10	<6	89	<5.9
Perfluoro-n-hexanoic acid (PFHxa)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<5.7	29	<6	<7.8	<5.9
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>110</b>	<b>410</b>	<6	<b>200</b>	<b>13</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	<5.7	34	<6	42	<5.9
Perfluoro-n-pentanoic acid (PFPeA)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-1-decanesulfonate (PDS)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<5.7	<5.4	<6	<7.8	<5.9

**TABLE 2**  
 SUMMARY OF SOIL SAMPLE ANALYSIS - PFAS  
 Former Tannery  
 Rockford, Michigan

Location Name	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-01	TA-SB-MW-01	TA-SB-MW-02	TA-SB-MW-02	TA-SB-MW-04
			TA-SB-MW-01 (2- 3)	TA-SB-MW-01 (6- 7)	TA-SB-MW-02 (1- 2)	TA-SB-MW-02 (4- 5)	TA-SB-MW-04 (1- 2)
			2 - 3	6 - 7	1 - 2	4 - 5	1 - 2
Sample Date			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	<10	<12	<10	<9.8	<11
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<10	<12	<10	<9.8	<11
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	140	2.4	<2.1	<2	<2.2
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2	<2.3	<2.1	<2	<2.2
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	7.1	6.5	<5.1	<4.9	<5.4
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-heptanesulfonate (PFHps)	NA	NA	9.2	6.6	<5.1	<4.9	<5.4
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	5.6	<5.9	<5.1	<4.9	<5.4
Perfluorohexanesulfonate (PFHxs)	NA	NA	5.9	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-hexanoic acid (PFHxa)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	<260	16	<5.1	<4.9	8.9
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<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	12	<5.1	<4.9	8.1
Perfluoro-n-pentanoic acid (PFPeA)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-decanesulfonate (PDS)	NA	NA	35	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	25	<5.9	<5.1	<4.9	<5.4
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<5.1	<5.9	<5.1	<4.9	<5.4

**TABLE 2**  
 SUMMARY OF SOIL SAMPLE ANALYSIS - PFAS  
 Former Tannery  
 Rockford, Michigan

Location Name	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-MW-04	TA-SB-MW-05	TA-SB-MW-05	TA-SB-MW-06
			TA-SB-MW-04DUP (1-2)	TA-SB-MW-04 (5-6)	TA-SB-MW-05 (1-2)	TA-SB-MW-05 (4-5)	TA-SB-MW-06 (2-3)
			1 - 2	5 - 6	1 - 2	4 - 5	2 - 3
Sample Name							
Depth Interval (feet)							
Sample Date			6/29/2018	6/29/2018	7/2/2018	7/2/2018	6/29/2018
Parameter (ug/kg)							
1H, 1H, 2H, 2H-perfluorooctane sulfonate (6:2 FTS)	NA	NA	<9.7	<10	<12	<12	<10
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<9.7	<10	<12	<12	<10
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<1.9	<2.1	<2.3	<2.4	<2
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<1.9	<2.1	<2.3	<2.4	<2
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-1-heptanesulfonate (PFHps)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluorohexanesulfonate (PFHxs)	NA	NA	4.9	<5.2	6.7	6.1	<5.1
Perfluoro-n-hexanoic acid (PFHxa)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	10	<5.2	65	7.7	8.9
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>190</b>	<b>120</b>	<b>630</b>	<b>310</b>	<b>14</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	11	13	19	7.2	6.9
Perfluoro-n-pentanoic acid (PFPeA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-1-decanesulfonate (PDS)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<4.8	<5.2	<5.8	<5.9	<5.1

**TABLE 2**  
 SUMMARY OF SOIL SAMPLE ANALYSIS - PFAS  
 Former Tannery  
 Rockford, Michigan

Location Name	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-06	TA-SB-MW-07	TA-SB-MW-07	TA-SB-MW-08	TA-SB-MW-08
			TA-SB-MW-06 (4-5)	TA-SB-MW-07 (4-5)	TA-SB-MW-07 (6-7)	TA-SB-MW-08 (2-3)	TA-SB-MW-08 (5-6)
			4 - 5	4 - 5	6 - 7	2 - 3	5 - 6
Sample Date			6/29/2018	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	NA	<14	<10	<11	<11	<11
1H, 1H, 2H, 2H-perfluorodecane sulfonate (8:2 FTS)	NA	NA	<14	<10	<11	<11	<11
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	NA	NA	<2.8	<2.1	<2.3	<2.1	<2.3
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	NA	NA	<2.8	<2.1	<2.3	<2.1	<2.3
Perfluoro-1-butanesulfonate (PFBS)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-n-butanoic acid (PFBA)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-n-decanoic acid (PFDA)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-n-dodecanoic acid (PFDoA)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-1-heptanesulfonate (PFHps)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-n-heptanoic acid (PFHpA)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluorohexanesulfonate (PFHxs)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-n-hexanoic acid (PFHxa)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-n-nonanoic acid (PFNA)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-1-octanesulfonamide (PFOSA)	NA	NA	17	<5.2	<5.6	<5.3	<5.6
<b>Perfluorooctanesulfonate (PFOS)</b>	NA	0.24	<b>130</b>	<b>99 [H]</b>	<b>9.1</b>	<b>74</b>	<b>250</b>
Perfluoro-n-octanoic acid (PFOA)	NA	10,000	9.5	<5.2	<5.6	<5.3	6.9
Perfluoro-n-pentanoic acid (PFPeA)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-n-tetradecanoic acid (PFTeDA)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-n-tridecanoic acid (PFTrDA)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-n-undecanoic acid (PFUdA)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-1-decanesulfonate (PDS)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-1-nonanesulfonate (PFNS)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6
Perfluoro-1-pentanesulfonate (PPPeS)	NA	NA	<6.9	<5.2	<5.6	<5.3	<5.6

**TABLE 2**  
SUMMARY OF SOIL SAMPLE ANALYSIS - PFAS  
Former Tannery  
Rockford, Michigan

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.  
"H" denotes the sample was analyzed out of holding time.  
"DUP" indicates a duplicate sample.
3. 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. **BOLD, Italic** number with a thick border indicates that the compound was detected greater than one of the listed cleanup criteria. For metals and cyanide, **BOLD, Italic** number with a thick border and shading indicates that the compound was detected at a concentration greater than both the statewide background, if available, and the most restrictive Part 201 cleanup criteria.

