



October 1, 2019 January 30, 2020; Rev 1



October 1, 2019

Rev 1: January 30, 2020

Ms. Laura Verona
District Supervisor
Southeast Michigan District Office
Michigan Department of Environment, Great Lakes, and Energy (EGLE)
Water Resources Division
27700 Donald Court
Warren, MI 48092-2793

Regarding: Pollutant Minimization and Source Evaluation Program for PFOS and PFOA

Dear Ms. Verona:

The Great Lakes Water Authority (GLWA) submits this "Pollutant Minimization and Source Evaluation Program for PFOS and PFOA" (hereinafter PFAS Plan) as required in Part I., Section A.17 of the National Pollutant Discharge Elimination System (NPDES) Permit MI 0022802. This report describes our strategies and commitments to identify sources of PFOS and PFOA; monitor for PFOS and PFOA; and control, reduce and eliminate contributions of PFOS and PFOA into the wastewater collection system.

The October 1st submission has been revised to reflect comments made by EGLE in December 2019. If you have questions or need additional information, please feel free to contact me at (313) 297-5804.

Respectfully,

Stephen Kuplicki, P.E., J.D.

Operations Manager, Industrial Waste Control

Great Lakes Water Authority

cc: Navid Mehram, GLWA

Majid Khan, GLWA Thomas Eapen, GLWA

The Great Lakes Water Authority (GLWA) is required to develop and implement a "Pollutant Minimization and Source Evaluation Program for Perfluorooctane Sulfonate (PFOS) and/or Perfluorooctanoic Acid (PFOA)" under the terms of its NPDES Permit MI0022802 issued on July 1, 2019. The following program description is submitted in compliance with the NPDES permit requirement.

Introduction

PFOA and PFOS are two chemical compounds from a whole family of manmade chemicals that contain a carbon and fluorine backbone known as Per- and Poly- Fluoroalkyl Substances (PFAS). These compounds came into common use in the 1950s and '60s given their ability to resist heat, water, and oil, and have been used in hundreds of industrial processes and consumer products. There are hundreds of known PFAS compounds with varying functional groups, which can include other elements such as oxygen, hydrogen, or sulfur.

Although there are hundreds of PFAS compounds, only a small number have been studied and our understanding on their impact upon human health and the environment is limited. Long-chain PFASs are believed to be more toxic and more persistent in the environment. Two of the compounds which have been studied for toxicity are PFOA and PFOS, however the extent to which these compounds break down in the environment or within municipal treatment plants is not well understood.

The U.S. Environmental Protection Agency has set lifetime health advisories for PFOA and PFOS, and the State of Michigan has set a water quality standards (WQS) for PFOS at 11 ng/l and a water quality-based effluent standards (WQBEL) at 8.04 ug/l for PFOA. Additional states have established other limits and standards. Research and investigation into these and other PFAS compounds are continuing and the science remains fluid.

GLWA is committed to implement this Minimization Program with the goal to reduce and maintain the WRRF effluent quality below the applicable WQS and/or WQBEL standards.

Background

GLWA was notified in February 2018 by the State of Michigan to identify and classify sources of PFOA and PFOS, initiate reduction and elimination activities with such sources and initiate effluent monitoring of the WRRF. Through an intensive inspection and monitoring program, GLWA identified 52 significant sources of PFOS and/or PFOA as of March 31, 2019. WRRF effluent monitoring over an approximate 12-month period has baselined an average concentration of PFOS in effluent at 11.16 ng/l (WQS = 11 ng/l) and PFOA at 8.47 ng/l (WQBEL = 8.04 ug/l).

The information compiled in the past 12-month period serves as a foundation to development of this Minimization Program document.

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The NPDES Permit seeks GLWA to develop a Minimization Program for PFOS and PFOA that addresses the following elements.

Element #1: Identification of and strategies to identify any additional potential and probable PFOS and/or PFOA sources

The GLWA Minimization Program will include non-domestic source contributions from industrial and commercial sources that are identified through (i) actual notice from the source(s); (ii) analytical data results from a specific source or which may represent a source class; (iii) sources discharging wastewater using materials known to contain PFOS and/or PFOA and (iv) on-going information received about "other" non-domestic sources presented in literature, research findings, etc.

As a result of the work initiated in 2018, we have already evaluated and identified a number of industry groups as potential sources of PFOS and PFOA in their wastewater discharge (See Attachment 1). New Users falling in one or more of these groups will be evaluated as potential sources using inspection and monitoring as necessary and either classified as a "Significant Source" or as "Not a Source", based upon Best Available information. The following additional commitments are made:

GROUP	ACTION/ACTIVITY	MINIMUM FREQUENCY
Existing Significant Industrial	Review BMR or Permit	At time of submittal
and/or Categorical Industrial	(Re)Application and	
Users	Supporting data	
New Significant Industrial	Review BMR or Permit	At time of submittal
and/or Categorical Industrial	Application and Supporting	
Users	data	
Other Non-domestic Users	Survey Inspection and	At time of submittal
	Application Information	
Groundwater	Application Information	At time of submittal

GLWA decisions to classify a facility as a Significant Source or otherwise will be documented in the main file.

To fulfill these objectives, we have added additional questions to our Survey Questionnaire form, Permit application form and Special Discharge Application form. Sample copies of these forms are attached (see attachment #2). GLWA has also developed Guidance Information for Users (see attachment 3).

¹ See Glossary

² See Glossary

The GLWA Minimization Program will not seek to control PFOS and/or PFOA contributions from Consumer (Domestic) sources at this time, such as non-stick cookware, grease-resistant paper, fast food wrappers, microwave popcorn bags, stain-resistant carpets and fabrics, water-resistant clothing, cleaning products, and personal care products. We believe that federal and state agencies are better positioned to identify and regulate such sources.

As new information is obtained about other commercial/industrial potential sources of PFOS and/or PFOA, GLWA will use its best efforts to identify and evaluate such sources.

Element #2: Monitoring plan for the permitted facility's influent and effluent from potential sources

Part I: Water Resource Recovery Facility (WRRF)

Effluent data collected during the past 12-month period displays a positive downward trend in the concentrations of PFOS and PFOA found in the effluent stream and are summarized in the Table below and graphicly – see attachment 4. Additionally, the average concentrations are already below or approaching the established WQBEL/WQS standard for PFOA and PFOS.

Table 4.1 GLWA - WRRF Effluent Sampling Data 2018/19 (all results in ng/l)

Column1	PFOS	PFOA
Apr-18	15	7.5
Sep-18	13	12
Oct-18	13	9.6
Nov-18	9.3	7.18
Jan-19	9.1	7
Apr-19	13	9.6
Jul-19	5.7	6.4

These results are encouraging however additional information is needed. Therefore, we propose the following monitoring schedule for the WRRF:

	Calendar 2020	Calendar 2021	Comment
		through 2024	
Jefferson Influent	Six (6) Samples	Quarterly	Establish Baseline data in 2020
Oakwood Influent	Six (6) Samples	Quarterly	to support Local Limits Re-
NIEA Influent	Six (6) Samples	Quarterly	evaluation Study
Effluent (Zug)	Six (6) Samples	Quarterly	
Biosolids	Semi-Annual	Semi-Annual	

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Note: GLWA recognizes that the sampling for calendar year 2020 includes 2 extra samples above that specified in the NPDES permit MI0022802. The additional monitoring is intended to provide data for performing an evaluation of local limits (due June 1, 2021). These additional data results will be reported on the DMR.

Part II: Significant Sources of PFOS and/or PFOA

- A. Self-Monitoring Program: Under its IPP, the GLWA issues permits or equivalent Control Documents that includes self-monitoring requirements for User's maintaining a Wastewater Discharge Permit. Facility self-monitoring frequencies are determined by GLWA in accordance with R323.2310(6)(c) of the Michigan Administrative Code, "...a frequency of monitoring that is necessary to assess and assure compliance by nondomestic users with applicable pretreatment standards and requirements." and will be at a minimum, Once per Year for Significant Sources of PFOS and/or PFOA. Note: GLWA determines self-monitoring frequencies by considering multiple factors including but not limited to the volume of wastewater discharged, the operations performed at the facility, and the compliance status of the facility; it should be noted that GLWA generally sets self-monitoring frequencies above the minimum. Self-monitoring requirements shall be defined in an enforceable document, i.e. Wastewater Discharge Permit, Compliance Agreement, etc.
- B. GLWA Monitoring: Monitoring will be conducted through the GLWA IPP Program Team at a minimum monitoring frequency of Once per Year for Significant Sources of PFOS and/or PFOA.
- C. Both GLWA and User Samples will be analyzed using ASTM D7979 or USEPA Method 537 (as modified) or any method(s) recognized by the USEPA or EGLE. *Note: Method Detection Limits and Reporting Ranges are described in each method (See glossary).*

Part III: Exploratory Monitoring of Potential Sources of PFOS and/or PFOA

GLWA shall maintain resources to conduct exploratory monitoring of potential Sources of PFOS and/or PFOA that are identified from information collected in Element #1 above.

Element #3: Implemented measures thus far to eliminate, reduce, and/or control sources, and an assessment of the degree of success and the strategies used to measure success

Since February 2018, GLWA has identified 52 significant sources of PFOS and/or PFOA using inspection, and monitoring resources through its Industrial Pretreatment Program (see attachment 5). Significant Sources have been notified of the classification, the basis of determination (Selfmonitoring and/or Control Authority sampling) and required to "reduce and eliminate" source contributions of PFOS and/or PFOA from their discharge. In accordance with current legal authority, Significant Sources have been directed to develop a Best Management Plan (BMP) to describe the means by which the individual facility will reduce and eliminate source contributions of PFOS and/or PFOA from their discharge. BMP elements have been incorporated into an enforceable document, i.e. a Wastewater Discharge Permit or Compliance Agreement.

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The basic elements of the enforceable document include the following:

- A. Baseline Monitoring a majority of users identified a need to collect additional information to quantify the contributions of PFOS and/or PFOA. A 90-day period has been generally granted for this purpose.
- B. Periodic Monitoring following the period of Baseline Monitoring, we have identified a periodic frequency for self-monitoring to be reported with the Six Month reports due June 30th and December 31st of each year.
- C. Management Controls contemporaneously with the Baseline Monitoring effort, we have required a review of current and future material inventories for PFOS and PFOA.
- D. Report of Additional Controls and/or Treatment We have established a submittal date after approx. a 180-day period, to review Baseline data, evaluate Management Controls and address the applicability of treatment (on or off site). Implementation schedules are also required.

Following submission of the reports, GLWA will review the reports and data submissions and accept or reject the plans and schedules. If rejected, GLWA will request a revision and resubmittal.

Assessing the Degree of Success

GLWA recognizes that it will take a concerted effort to eliminate PFAS compounds and we expect that the collective efforts of the significant sources will lead toward the minimization, elimination, and reduction of PFOS and PFOA from the local environment.

GLWA WRRF Data

Data collected by the GLWA WRRF (see prior attachment 4) indicates a positive downward trend towards compliance with the NPDES Permit goal. GLWA attributes this observation to the awareness factor raised by GLWA with the industrial community overall and specifically with those identified as Significant Sources of PFOS and/or PFOA.

Significant Sources – Additional Data

Prior to the re-issued NPDES Permit (July 1, 2019), GLWA reported the quarterly WRRF data as it has been available. Analytical data after this period will be reported in accordance with DMR requirements.

GLWA – IPP activity has been reported since February 2018, however the key reports are March 31, 2019 and June 27, 2019. These reports are incorporated by reference into this Minimization Plan.

Significant sources and GLWA have collected additional analytical data to supplement the previous reports. The data received as of September 15th, 2019 is summarized in attachment 6.

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Progress Assessment for Significant Sources

Based upon the information available as of September 15th, 2019, we have summarized the progress reported by the SIU or as determined by ourselves, and as appropriate, provided our comment(s) (see attachment 7). One additional significant source has been identified since the last summary report, i.e. Envirosolids and is included in this summary.

As of October 1, 2019, nine (9) of the original 52 significant sources have or are in the process of installing treatment for the removal of PFAS compounds. The predominant treatment uses GAC (Granular Activated Carbon) or ion resin adsorption. The progress and actions of the remaining users will be updated in the December 31, 2019 status report currently scheduled in MiWaters.

Proposed measures and implementation schedules for elimination, control, Element #4: and/or reduction of the identified sources (prioritizing highest loadings and concentrations), and the strategies that will be used to measure success

Based on the positive downward trend observed thus far in the WRRF effluent, GLWA believes that its prior efforts have provided a good foundation that can be continued. GLWA will continue to use its best efforts to reduce and eliminate the concentrations of PFOS and PFOA discharged from the WRRF. GLWA is confident that source control efforts can achieve the stated goal (discharge below the respective WQS or WQBEL).

The following measures will be taken (after October 1, 2019) to eliminate, control and/or reduce PFOS and PFOA.

A. Rules and Standards

The current state WQS and WQBEL standards do not, by themselves, easily translate into enforceable limits or criteria at this time. EGLE has encouraged GLWA and other POTWs to create local limits and/or other requirements, for PFOS and PFOA, however the process for creating such limits is rigorous and will require additional time. GLWA will do the following:

- 1. Implementation of Rules for PFOS and PFOA GLWA has drafted a rules amendment for source control of PFAS Compounds (including PFOS and PFOA). These amendments are scheduled to be presented to the GLWA Board. As with all public rulemaking, a public comment period will be open to solicit input from interested parties prior to an actual vote to adopt by the GLWA Board. Prior to the enactment date, GLWA will inform EGLE of the rules and request a Non-Substantial Modification in accordance with R 323.2309.
- 2. Local Limits Evaluation In accordance with the July 1, 2019 NPDES permit, GLWA is scheduled to provide a technical evaluation of local limitations, and present in the report due on or by June 30, 2021. Although the NPDES permit does not specifically require GLWA to develop local limitations for PFOS and/or PFOA, GLWA plans to include these parameters in its evaluation along with other pollutants of concern. GLWA will initiate data collection efforts beginning in 2020 to achieve this objective.

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B. Source BMP Development, Implementation and Enforcement

Until such time as the rules and any local limitations are enacted, GLWA will consider known source discharges in excess of the WQS and/or WQBEL to be significant sources and require the reduction, control and elimination of PFOA and PFOS from source discharges. GLWA believes the BMP approach along with its general enforcement tools, is an effective means of accomplishing this goal. Any progress (or lack thereof) of a significant source will be reported to EGLE District Office staff in accordance with the NPDES permit.

To support this effort, GLWA will prepare Guidance to assist significant sources in using the BMP approach. Several examples are included in attachment 8.

C. WRRF Performance

The WRRF shall report available PFOS and PFOA data in accordance with the DMR reporting requirements. Additionally, GLWA will track the quality of its discharge in a spreadsheet with appropriate charts or graphs. The next progress submittal is due December 31, 2019 and will include all available information as of the reporting date.

D. GLWA – IPP

The progress of significant sources in implementing the BMPs and reducing and eliminating the contributions of PFOS and PFOA will be tracked and a summary provided with each annual or status report. In evaluating the success achieved by individual significant sources in reducing or eliminating their respective contributions of PFOS and PFOA, GLWA will provide an independent comment as to whether the affirmative actions³ taken by a particular source towards reducing or eliminating their respective contributions of PFOS and PFOA are achieving the Minimization goal. [Note: In assessing progress, we will focus primarily on results that are supported by factual documentation.]

The NPDES Permit specifies that an Annual report is required each October 1 (beginning in 2020). GLWA will comply with this requirement. This report will include analytical reports for WRRF (PFAS Compounds other than PFOS and PFOA).

E. Information and Education Activities

GLWA is committed to communicate openly with the Industrial Users and community about developments, findings, and other information on the subjects of PFOS, PFOA and other PFAS compounds. GLWA will use its best efforts to participate in seminars, publications, and other outreach activities to make such information available.

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³ We recognize that there may not be an immediate or 1:1 relationship between an action and effluent data results. We desire to recognize progress both great and small.

F. Other

GLWA is active in supporting the efforts of the Water Research Foundation to address water-quality issues affecting POTWs across the nation, including PFAS compounds.

Finally, GLWA will use its best efforts to stay abreast of new information developed by federal, state or other entities, and endeavor to incorporate such information into future PFOS and PFOA Minimization Program improvements or enhancements.

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GLOSSARY OF TERMS

Significant Source (of PFOS and/or PFOA) – any non-domestic source whose discharge of PFOS and/or PFOA exceeds by any amount the Water Quality Standards established by EGLE, based on one or more analytical results. At this time, GLWA understands EGLE's WQS for drinking water streams are 420 ng/l for PFOA and 11 ng/l for PFOS.

Not a Source (of PFOS and/or PFOA) – any non-domestic user who is not a "significant source".

Method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte.

TABLE 1 Method Detection Limit and Reporting Range for ASTM D7979

AnalyteA	MDL (ng/L)	Reporting Ranges (ng/L)
PFTreA ^B	1.2	10 – 400
PFTriA ^B	0.7	10 - 400
PFDoA ^B	1.2	10 - 400
PFUnA ^B	1.2	10 - 400
PFDA ^B	1.4	10 - 400
PFOS ^B	2.2	10 - 400
PFNA ^B	1.1	10 - 400
PFecHS ^B	1.9	10 - 400
PFOA ^B	1.7	10 - 400
PFHxS ^B	1.2	10 - 400
PFHpA ^B	1.0	10 - 400
PFHxA ^B	2.0	10 - 400
PFBS ^B	0.8	10 - 400
PFPeA ^B	4.6	50 - 2000
PFBA ^B	4.6	50 - 2000
FHEA	92.9	300 - 8000
FOEA	106.8	300 - 8000
FDEA	47.2	200 - 8000
FOUEA	2.3	10 - 400
FHpPA	3.3	10 - 400
FHUEA	1.5	10 - 400

^A Acronyms are defined in 3.3.

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^B New MDL study was reported in August 2016, which resulted in a reporting limit and range update.

GLOSSARY (CONTINUED)

TABLE 5. DLs AND LCMRLs IN REAGENT WATER for EPA Method 537

Analyte	Fortified Conc. (ng/L) ^a	DL ^b (ng/L)	LCMRL ^c (ng/L)
PFBS	9.1	3.1	3.7
PFHxA	5.0	1.6	2.9
PFHpA	4.1	0.5	3.8
PFHxS	11	2.0	8.0
PFOA	4.6	1.7	5.1
PFNA	4.8	0.7	5.5
PFOS	9.6	1.4	6.5
PFDA	3.7	0.7	3.8
NMeFOSAA	20	6.5	14
NEtFOSAA	21	4.2	14
PFUnA	5.4	2.8	6.9
PFDoA	3.7	1.1	3.5
PFTrDA	5.5	2.2	3.8
PFTA	4.4	1.7	4.7

a Spiking concentration used to determine DL.

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Detection limits were determined by analyzing seven replicates over three days according to Section 9.2.7.

LCMRLs were calculated according to the procedure in reference 1.



Table of Attachments

Attachment 1	2018/19 Summary of Potential Sources of PFOS and PFOA
Attachment 2	Sample Forms for Survey Application, Permit Application and Special Discharge Application w/PFAS Compound Questions
Attachment 3	GLWA-IWC Staff Guidance – Reference Guide for Identifying Potential Significant Sources of PFAS Compounds
Attachment 4	Summary Table and Graphs of WRRF Effluent Results for PFOS and PFOA
Attachment 5	2018/19 Summary of Significant Sources of PFOS and PFOA
Attachment 6	CY2019 - GLWA and User Sampling Results as of September 15, 2019
Attachment 7	October 2019 Progress Assessment Summary
Attachment 8	Guidance Information for Best Management Program Plans for General Users, CWT Facilities and Landfills



	Attachment 1: Potential Sources Evaluated and Id	lentified for PFOS/PFOA by (GLWA - 2018/19													
User ‡		Facility Address	City		Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Significant Sources
													420	11		
															Probable	
1	3M Company	11900 E. 8 Mile Road	Detroit	Wayne	48205	3291	327910	SIU	SIU	15,585	Continuous	8/20/2018	ND	<9.28	Significant Source	Yes
2	A. G. Simpson (USA), Inc.	6640 Sterling Drive South	Sterling Heights	Macomb	48312	3471/3479	332813	CIU	433.A.15(a) (PSES) Metal Finishing	31,000.00	Continuous	10/22/2018	ND	350	Significant Source	Yes
3	Aactron, Inc.	29306 Stephenson Highway	Madison Heights	Oakland	480712317	3471/3479	332812/332813	CIU	413.54E(b&f) (PSES) Electroplating <10,000 gpd	1,015	Continuous	10/16/2018	ND	ND	Not a Source	
4	ACME Plating, Inc.	18636 Fitzpatrick	Detroit	Wayne	48228	3471/3479	332812/332813	CIU	413.14A(b), 413.54E(b) (PSES) Electroplating <10,000 gpd	2,100	Continuous	9/26/2018	ND	ND	Not a Source	
5	Advanced Disposal Services Solid Waste Midwest, Inc.	501 Collier Road	Pontiac	Oakland	48326	4953		SIU	Liceti opiatilig \10,000 gpu		S	easonal Discha	arge: Scheduled	d for April 2019)	
6	Advanced Resource Recovery, L.L.C.	27140 Princeton Avenue	Inkster	Wayne	48141	5093	562219	CIU	437.D.46b (PSES) Centralized Waste Treatment	96,551	Batch	4/18/2018	290	ND (<23ng/l)	Significant Source	Yes
	Advanced Resource Recovery, L.L.C.	27141 Princeton Avenue	Inkster	Wayne	48141	5093	562219	CIU	437.D.46b (PSES) Centralized Waste Treatment	96,551	Batch	9/11/2018	470	410	Significant Source	
7	Aero Box, LLC	20101 Cornillie Drive	Roseville	Macomb	48066	2653	322211	SIU		125.00	Batch	10/23/2018	40	ND	Not a Source	
8	Aevitas Specialty Services Corp.	663 Lycaste Street	Detroit	Wayne	48214	5093	562219	CIU	437.B.26 (PSNS) Centralized Waste Treatment	53,000	Batch	10/15/2018	10	70	Significant Source	Yes
9	Ajax Metal Processing, Inc	4651 Bellevue Avenue	Detroit	Wayne	48207	3471	332813	CIU	413.14A(c&g), 413.54E(c&g) (PSES) Electroplating; 433.17(a) (PSNS) Metal Finishing 414.E.55 (PSES) Organic Chemicals, Plastics, and	193,393	Continuous	9/10/2018	ND	ND	Not a Source	
10	Alpha Resins, L.L.C.	17350 Ryan Rd	Detroit	Wayne	48212	2821	325211	CIU	Synthetic Fibers AND 414.K.111 (PSES & PSNS) Organic Chemicals, Plastics, and Synthetic Fibers	25,214	Continuous	10/15/2018	ND	ND	Not a Source	
11	American Beverage Equipment Co., Inc.	27560 Groesbeck Highway	Roseville	Macomb	48066	3471	332813	CIU	433.A.15(a) (PSES) Metal Finishing	850.00	Continuous	10/23/2018	ND	ND	Not a Source	
12	American Jetway Corp.	3850 Howe	Wayne	Wayne	48184	2899	325998	SIU	SIU	100	Batch	10/15/2018	ND	ND	Not a Source	
13	American Metal Finishing, Inc.	35860 Beattie Drive		Macomb	48312	3471	332813	SIU	SIU	550.00	Batch	10/23/2018	ND	ND	Not a Source	
14	Applied Technology Industries, Inc.	50271 E. Russell Schmidt Drive	Chesterfield	Macomb	48051	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	28,193.00	Continuous	10/24/2018	ND	ND	Not a Source	
15	Arted Chrome Plating Inc.	38 Piquette Street	Detroit	Wayne	48202	3471	332813		413.14 A(d) (PSES) Electroplating <10,000 gpd	6,124	Continuous	8/8/2018	<1.9	69	Significant Source	Yes
16	A-W Custom Chrome, Inc.	17726 E. 9 Mile Road	East Pointe	Macomb	48021	3471	332813	CIU	413.A.14(b)(f) (PSES) Electroplating Discharging	630	Continuous	9/26/2018	ND	180	Significant Source	Yes
17	Baron Industries	999 East Mandoline	Madison Heights	Oakland	48071	3479		SIU	<10,000 gpd SIU 413.A.14(c)(g), 413.E.54(c)(g)	4,500.00	Continuous	10/30/2018	ND	ND	Not a Source	
18	Beacon Park Finishing, LLC (Howard Finishing Roseville)	15765 Sturgeon	Roseville	Macomb	48066	3471	332813	CIU	(PSES) Electroplating Discharging >10,000 gpd	71,900.00	Continuous	10/22/2018	ND	2560	Significant Source	Yes
									413.A.14(c)(g), 413.E.54(c)(g) (PSES) Electroplating Discharging >10,000 gpd	71,900.00	Continuous	2/11/2019	4.3	50000	Additional Data	
19	Black Ox Corporation	35451 Schoolcraft Road	Livonia	Wayne	48150	3471		CIU	433.A.17a (PSNS) Metal Finishing	1,000.00	Batch	11/16/2018	ND	ND	Not a Source	
20	BMT Aerospace	18559 Malyn	Fraser	Macomb	48026	3724		CIU	433.A.17a (PSNS) Metal Finishing	3,040	Continuous	10/10/2018	ND	ND	Not a Source	
21	Burkard Industries, Inc.	35300 Kelly Rd.	Clinton Township	Macomb	48035	3479	332812	CIU	433.A.17(a) (PSNS) Metal Finishing	35,754	Continuous	9/26/2018	ND	ND	Not a Source	

Report_month	User#	Facility Name	Facility Address	City	County	Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	r Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Significant Sources
														420	11		
N	22	Chemical Process Industries, LLC	25428 John R,	Madison Heights	Oakland	48071	3471		CIU	413.A.14c (PSES) Electroplating AND 433.A.17a (PSNS) Metal Finishing	13,292	Continuous	10/16/2018	ND	ND	Not a Source	
D	23	Chemico Systems, Inc.	50725 Richard West Blvd.	Chesterfield	Macomb	48051	1799/2899	325510	SIU	SIU	5,074.00	Batch	10/25/2018	ND	ND	Not a Source	
D	24	Chor Industries Inc.	500 Robbins	Troy	Oakland	48083	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	12,303.00	Continuous	10/30/2018	ND	250	Significant Source	a
0	25	Cintas Corporation - Westland	39145 Webb Drive	Westland	Wayne	48185	7218	812332	SIU	SIU	71,183	Continuous	9/11/2018	ND	40	Significant Source	Yes
N	26	City of Livonia - Type III Landfill	32500 Glendale Road	Livonia	Wayne	48150	4953	562212	SIU	SIU	16,000	Continuous	10/15/2018	50	100	Significant Source	Yes
N	27	City of Pontiac	575 Collier Road	Pontiac	Oakland	48340	4953	562212	SIU	SIU	97,000	Continuous	10/5/2018	75	15	Significant Source	Yes
N	28	Color Coat Plating Company	355 W. Girard	Madison Heights	Oakland	48071	3471	332813	CIU	433.A.17a (PSNS) Metal Finishing	1,139	Batch	9/26/2018	ND	230	Significant Source	Yes
D	29	Controlled Power Company	1955 Stephenson Highway	Troy	Oakland	48083	3479/3612	335311	CIU	433.A.17a (PSNS) Metal Finishing	551.00	Batch	10/30/2018	ND	20	Significant Source	Yes
0	30	Cross Chemical Co.	1210 Manufacturers Dr.	Westland	Wayne	48186	2843	325613	SIU	NOA	6,330	Batch	9/11/2018	ND	ND	Not a Source	
D	31	Curtis Metal Finishing Company	6645 Sims Drive	Sterling Heights	Macomb	48313	3479	332812	CIU	433.A.17(a) (PSNS) Metal Finishing 442.A.15a (PSES)	245,204.00	Continuous	10/19/2018	ND	ND	Not a Source	
0	32	Dana Container, Inc. Tank Cleaning Division	1551 Caniff Street	Detroit	Wayne	48211	7999	562991	CIU	Transportation Equipment Cleaning	12,950	Batch	9/10/2018	280	140	Significant Source	Yes
D	33	Daniels Sharpsmart, Inc.	5770 Hix Road	Westland	Wayne	48185		562219/562112	SIU	NOU 433.A.17a (PSNS) Metal	3,600.00	Continuous	10/19/2018	ND	ND	Not a Source	
	34	DCI Aerotech	7501 Lyndon	Detroit	Wayne	48238	3471	332813	CIU	Finishing			Fire in 2018	- Scheduled fo	or April 2019		
D	35	Depor Industries, Inc. (Metal Improvement Co)	14830 23 Mile Rd	Shelby Township	Macomb	48315	3479	332812	CIU	433.A.17(a) (PSNS) Metal Finishing 433.A.17a (PSNS) Metal	4,035.00	Continuous	11/1/2018	20	ND	Not a Source	
0	36	Depor Industries, Inc. (Troy)	1902 Northwood	Troy	Oakland	48084		332812	CIU	Finishing	16,000	Continuous	9/17/2018	ND	ND	Not a Source	
0	37	Detroit Chrome Electro Forming Co.	7515 Lyndon	Detroit	Wayne	48238	3471	332813	CIU	413.14 A(b) (PSES) Electroplating <10,000 gpd	2,180	Batch	9/25/2018	ND	9750	Significant Source	Yes
N	38	Detroit Diesel Corporation	13400 W. Outer Drive	Detroit	Wayne	48239-1309	3471	332813/333618	SIU	SIU	117,400	Continuous	9/28/2018	5.3	11	Significant Source	Yes
N		Detroit Diesel Corporation		Detroit	Wayne	48239-1310	3472	332813/333619	SIU	NOU	102,600	Continuous	9/28/2018	5.7	10	Not a Source	
J	39	Detroit Metropolitan Wayne County Airport	One L. C. Smith Terminal - Mezzanine	Detroit	wayne	48242	4581			SIU	700,000	Continuous	12/18/2019	140	220	Significant Source	Yes
N	40	Detroit Name Plate Etching Company	10610 Galaxie	Ferndale	Oakland	48220	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	2,687	Continuous	10/16/2018	ND	ND	Not a Source	
D	41	Detronic Industries, Inc.	35800 Beattie Drive	Sterling Heights	wayne	48312	3444/3471/3 479	332322/332812/332813	CIU	433.A.17a (PSNS) Metal Finishing	10,970.00	Continuous	10/19/2018	ND	ND	Not a Source	
0	42	Disposal and Recycling Technologies, Inc.	8647 Lyndon	Detroit	Wayne	48238	4953	562219	CIU	437.D.47e (PSNS) Centralized Waste Treatment	250,300	Continuous	9/11/2018	1790	530	Significant Source	Yes
0	43	Domestic Uniform Rental	3800 18th Street	Detroit	Wayne	48208	7218	812332	SIU	SIU	64,276	Continuous	9/10/2018	20	50	Significant Source	Yes
N	44	Dynamic Metal Finishing	5999 Bewick Street	Detroit	Wayne	48213	3471	332813	CIU	433.A.17(a) (PSNS) Metal Finishing	3,667	Continuous	9/26/2018	ND	10	Not a Source	
N	45	Dynamic Robotic Solutions Inc. (KMT Robotic Solutions Inc.)	1255 Harmon Rd.	Auburn Hills	Oakland	48326			SIU	NOU	2,184	Continuous	10/15/2018	1.7	<1.7	Not a Source	
N	46	Electroplating Industries, Inc.	21410 Carlo Drive	Clinton Township	Macomb	48038	3471	332813	CIU	433.A.17(a) (PSNS) Metal Finishing	16,193	Batch	9/26/2018	ND	ND	Not a Source	
D	47	Elite Fence Products	50925 Richard West Blvd.	Chesterfield	Macomb	48051	3479	332812	CIU	433.A.17(a) (PSNS) Metal	7,686.00	Continue	10/24/2018	ND	ND	Not a Source	

		Attachment 1: Potential Sources Evaluated and Ident	ified for PFOS/PFOA by 0	GLWA - 2018/19)												
Report_month	User #	Facility Name	Facility Address	City	County	Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Significant Sources
														420	11		
N	48	Emerald Steel Processing	31624 Stephenson Highway	Madison Heights	Oakland	48071	3398		CIU	420.I.95a.1 (PSES) Iron and Steel Manufacturing AND 433.A.15a (PSES) Metal Finishing	35,207	Continuous	10/16/2018	ND	ND	Not a Source	
N	49	EnviroSolids, L.L.C.	6011 Wyoming Ave.	Dearborn	Wayne	48126	4953	562219	CIU	437.D.46e (PSES) Centralized Waste Treatment 437.D.46b.1 (PSES) Centralized	66,123	Batch	10/15/2018	70	ND	Not a Source	
0	50	EQ Detroit dba US Ecology	1923 Frederick Street	Detroit	Wayne	48211	4953	562211/562219	CIU	Waste Treatment AND 437.C.35 (PSES) Centralized Waste Treatment	155,702	Batch	9/11/2018	60	650	Significant Source	Yes
N	51	EQ Resource Recovery Inc.	36345 Van Born Road	Romulus	Wayne	48174-4057	4953/5093	562211/562219	CIU	437.C.35 (PSES) Centralized Waste Treatment	129,358	Continuous	10/15/2018	130	240	Significant Source	Yes
D	52	Extrude Hone Corporation - Sterling Heights	6145 Wall St	Sterling Heights	Macomb	48312	3479	332812	CIU	433.A.17(a) (PSNS) Metal Finishing	5,868.00	Continuous	10/22/2018	ND	ND	Not a Source	
N	53	FCA US LLC - Jefferson NOrth Assembly Plant	2101 Conner Avenue	Detroit	Wayne	48215	3711/3479	336112/332812	CIU	433.A.17(a) (PSNS) Metal Finishing	814,000	Continuous	1015/18	ND	ND	Not a Source	
D	54	FCA US LLC - Sterling Heights Assembly Plant	38111 Van Dyke Avenue	Sterling Heights	Macomb	48312	3711/3479	336112/332812	CIU	433.A.17(a) (PSNS) Metal Finishing 433.A.15(a) (PSES) Metal	520,000.00	Continuous	10/19/2018	ND	ND	Not a Source	
D	55	FCA US LLC - Warren Truck Assembly Plant	21500 Mound Road	Warren	Macomb	48091	3711/3479	336112/332812	CIU	Finishing 433.A.17a (PSNS) Metal	751,000.00	Batch	10/23/2018	ND	ND	Not a Source	
N	56	Fitzgerald Finishing L.L.C.	17450 Filer Ave.	Detroit	Wayne	48212-1908	3471/3479	332812/332813	CIU	Finishing AND 413.E.54c (PSES) Electroplating	36,900	Continuous	10/15/2018	ND	ND	Not a Source	
	57	Ford Motor Company - Allen Park Clay Mine Landfill	17005 Oakwood Blvd.	Allen Park	Wayne	MI	48101	4953	562212	SIU	35,020	Continuous	2/20/2019	50	160	Significant Source	Yes
N	58	Ford Motor Company - Dearborn Diversified Mfg. Plant	3001 Miller Road	Dearborn	Wayne	48121	3714		CIU	433.A.17(a) (PSNS) Metal Finishing	52,000	Continuous	10/16/2018	ND	ND	Not a Source	
N	59	Ford Motor Company - Dearborn Truck Plant	3001 Miller Road	Dearborn	Wayne	48121	3711/3479/3 465/3714	336112/332812/336399	CIU	433.A.15(a) (PSES) Metal Finishing	534,878	Batch	10/15/2018	30	50	Significant Source	Yes
		Ford Motor Company - Dearborn Truck Plant	3001 Miller Road	Dearborn	Wayne	48121	3711/3479/3 465/3714	336112/332812/336399	CIU	433.A.15(a) (PSES) Metal Finishing	534,878	Batch	2/4/2019	2.8	2.5	Additional Data	
										400 4 45 (0050) 44 !	534,878	Batch	2/4/2019	1.7	1.7	Additional Data	
D	60	Ford Motor Company - Michigan Assembly Complex	38303 Michigan Avenue	Wayne	Wayne	48184	3711		CIU	433.A.15a (PSES) Metal Finishing	800,000.00	Continuous	10/19/2018	ND	ND	Not a Source	
N	61	Ford Motor Company - New Model Program Development Cente	r 17000 Oakwood Blvd.	Allen Park	Wayne	48101	3711	336611	CIU	433.A.17a (PSNS) Metal Finishing	120,000	Continuous	10/15/2018	ND	10	Not a Source	
D	62	Ford Motor Company - Sterling Plant	39000 Mound Road	Sterling Heights	Macomb	48310	3465/3479/3 7//3714	332812/322813/336399	CIU	433.A.15a (PSES) Metal Finishing	400,000.00	Continuous	10/25/2018	ND	ND	Not a Source	
D	63	Fox Manufacturing Inc.	12333 Schaefer Rd.	Detroit	Wayne	48227	2841	325611	SIU	NOA	325.00	Batch	11/14/2018	ND	ND	Not a Source Significant	
N	64	G2O Energy, LLC	8750 Grinnell	Detroit	Wayne	48213	4953	562219/562119	SIU	CILL	CO F.C7	Continuo	10/15/2018	ND	10 ND	Source	Yes
0	65	General Linen and Uniform Service	1016 E. Palmer Street 2500 East General Motors	Detroit	Wayne	48211	7213		SIU	SIU 433.A.17a (PSNS) Metal	60,567	Continuous	9/10/2018	ND	ND	Not a Source Probable	
0	66	General Motors Company	Boulevard	Detroit	Wayne	48211	3711	336111	CIU	Finishing	488,199	Batch	8/13/2018	ND	ND	Significant Source	Yes
D	67	General Motors LLC., Orion Assembly	4555 Giddings Road	Lake Orion	Oakland	48359	3711		CIU	433.A.15a (PSES) Metal Finishing	293,736.00	Continuous	11/1/2018	ND	30	Significant Source	Yes
		General Motors LLC., Orion Assembly - SL#1									293,736.00	Continuous	1/9/2019	ND	ND	Additional Data	
		General Motors LLC., Orion Assembly - SL#1									293,736.00	Continuous	1/10/2019	ND	ND	Additional Data	
		General Motors LLC., Orion Assembly - SL#1									293,736.00	Continuous	1/11/2019	ND	ND	Additional Data	

		Attachment 1: Potential Sources Evaluated and	I Identified for PFOS/PFOA by 0	GLWA - 2018/19												
	User#	Facility Name	Facility Address	City	County	Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification
														420	11	
		General Motors LLC., Orion Assembly - SL#2									293,736.00	Continuous	1/12/2019	ND	ND	Additional Data
		General Motors LLC., Orion Assembly - SL#2									293,736.00	Continuous	1/13/2019	ND	ND	Additional Data
		General Motors LLC., Orion Assembly - SL#2									293,736.00	Continuous	1/14/2019	ND	ND	Additional Data
		General Motors LLC., Orion Assembly - SL#1									293,736.00	Continuous	1/30/2019	ND	ND	Additional Data
		General Motors LLC., Orion Assembly - SL#1									293,736.00	Continuous	1/31/2019	ND	ND	Additional Data
		General Motors LLC., Orion Assembly - SL#1									293,736.00	Continuous	2/1/2019	ND	ND	Additional Data
		General Motors LLC., Orion Assembly - SL#2									293,736.00	Continuous	2/2/2019	ND	ND	Additional Data
		General Motors LLC., Orion Assembly - SL#2									293,736.00	Continuous	2/3/2019	ND	ND	Additional Data
		General Motors LLC., Orion Assembly - SL#2									293,736.00	Continuous	2/4/2019	ND	ND	Additional Data
١	68	GST AutoLeather, Inc.	31601 Industrial Road	Livonia	Wayne	48150	3111	316110	SIU	NOU	1,700	Continuous	10/15/2018	20	ND	Not a Source
)	69	H & S Inspection Service, Inc.	422 Oliver Dr.	Troy	Wayne	48084	3479	541380	CIU	433.A.17a (PSNS) Metal Finishing	3,379.00	Continuous	10/29/2018	ND	ND	Not a Source
)	70	Hajjar Plating Services, Inc.	38300 Van Born Rd.	Wayne	Wayne	48184	3471	332813	CIU	413.14 A(b&f) (PSES) Electroplating <10,000 gpd	1,400	Continuous	8/8/2018	ND	370	Significant Source
)	71	Henkel Corporation	32100 Stephenson Highway 2799 West Grand	Madison Heights	Oakland		479	325998/332812/332813	CIU	433.A.15a (PSES) Metal Finishing	11,000.00		11/1/2018	ND	ND	Not a Source
)	72	Henry Ford Hospital	Boulevard	Detroit	Wayne	48202	8062	622110	SIU	SIU	1,240,479	Continuous	8/24/2018	5.62	3.49	Not a Source
)	73	HHI FormTech, LLC	690 W Maple Road	Troy	Oakland	48084	3462/3479		CIU	433.A.15a (PSES) Metal Finishing	41,613.00	Continuous	10/29/2018	ND	ND	Not a Source
)	74	Honhart Mid-Nite Black Co.	501 Stephenson Highway	Troy	Oakland	48083-1118	3479	332812	CIU	433.A.15a (PSES) Metal Finishing	5,000.00	Continuous	10/29/2018	ND	ND	Not a Source
)	75	IDP Inc.	21300 West Eight Mile Road	Southfield	Oakland	48075-5638	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	722.00	Continuous	10/30/2018	ND	ND	Not a Source
)	76	IHI lonbond, L.L.C.	1823 E. Whitcomb Avenue	Madison Heights	Oakland	48071	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	9,174.00	Continuous	10/29/2018	ND	ND	Not a Source
)	77	Industrial Metal Coating	6070 18 Mile Road	Sterling Heights	macomb	48314	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	12,766.00	Continuous	10/22/2018	50	ND	Not a Source
)	78	Industrial Metal Finishing Company	6070 18 Mile Road	Sterling Heights	Macomb	48314	3471/3632	332813	SIU	NOU	4,700.00	Continuous	10/22/2018	ND	ND	Not a Source
)	79	International Extrusions, Inc.	32800 Industrial Road	Garden City	Wayne	48135	3354/3471/3 479	331316/332812	CIU	467.C.36c.Cleaning or Etching Ri (PSNS) Aluminum Forming	11,072.00	Continuous	10/19/2018	ND	ND	Not a Source
)	80	International Hardcoat Inc.	12400 Burt Road	Detroit	Wayne	48228	3471	332813	CIU	433.A.17a (PSNS) Metal Finishing	60,000	Continuous	9/11/2018	ND	20	Significant Source
)	81	K & F Electronics, Inc.	33041 Groesbeck Hwy	Fraser	Macomb	48026	3672	334412	CIU	433.A.17a (PSNS) Metal Finishing	8,700.00	Continuous	10/23/2018	ND	ND	Not a Source
١	82	K. C. Jones Plating Co.	321 W. 10 Mile Rd.	Hazel Park	Oakland	48030-1136	3471	332813	CIU	433.A.17a (PSNS) Metal Finishing	67,400	Continuous	9/26/2018	ND	ND	Not a Source
)	83	Lear Corporation dba Eagle Ottawa	2930 W Auburn Road	Rochester Hills	Oakland	48309	3111		CIU	425.D.46 (PSNS) Leather Tanning and Finishing	32,250	Continuous	9/12/2018	ND	10	Not a Source
)		Lear Corporation dba Eagle Ottawa								425.D.46 (PSNS) Leather Tanning and Finishing			9/21/2018	43	14	Significant Source
)	84	MacDermid, Inc.	1221 Farrow Avenue	Ferndale	Oakland	48220	2899	325998	CIU	433.A.15a (PSES) Metal Finishing	17,119	Batch	8/27/2018	28	840	Significant Source

Report_month	User #	Facility Name	Facility Address	City	County	Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Significant Sources
														420	11		
0	85	Marathon Petroleum Company, LP	1300 S. Fort Street	Detroit	Wayne	48217	2911/5171	324110/424710	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,849	Continuous	6/27/2018	30	360	Significant Source	Yes
0		Marathon Petroleum Company, LP	1301 S. Fort Street	Detroit	Wayne	48218	2911/5172	324110/424711	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,850	Continuous	6/27/2018	ND	18	Significant Source	
0		Marathon Petroleum Company, LP	1302 S. Fort Street	Detroit	Wayne	48219	2911/5173	324110/424712	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,851	Continuous	8/2/2018	20	170	Significant Source	
0		Marathon Petroleum Company, LP	1303 S. Fort Street	Detroit	Wayne	48220	2911/5174	324110/424713	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,852	Continuous	8/2/2018	ND	ND	Not a Source	
0		Marathon Petroleum Company, LP	1304 S. Fort Street	Detroit	Wayne	48221	2911/5175	324110/424714	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,853	Continuous	7/11/2018	17	160	Significant Source	
0		Marathon Petroleum Company, LP	1305 S. Fort Street	Detroit	Wayne	48222	2911/5176	324110/424715	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,854	Continuous	7/11/2018	ND	ND	Not a Source	
0		Marathon Petroleum Company, LP	1306 S. Fort Street	Detroit	Wayne	48223	2911/5177	324110/424716	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,855	Continuous	6/13/2018	3.5	70	Significant Source	
0		Marathon Petroleum Company, LP	1307 S. Fort Street	Detroit	Wayne	48224	2911/5178	324110/424717	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,856	Continuous	6/13/2018	ND	ND	Not a Source	
0		Marathon Petroleum Company, LP	1308 S. Fort Street	Detroit	Wayne	48225	2911/5179	324110/424718	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,857	Continuous	5/16/2018			Not a Source	
0		Marathon Petroleum Company, LP	1309 S. Fort Street	Detroit	Wayne	48226	2911/5180	324110/424719	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,858	Continuous	5/16/2018	ND	ND	Not a Source	
0		Marathon Petroleum Company, LP	1310 S. Fort Street	Detroit	Wayne	48227	2911/5181	324110/424720	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,859	Continuous	5/30/2018	76	800	Significant Source	
0		Marathon Petroleum Company, LP	1311 S. Fort Street	Detroit	Wayne	48228	2911/5182	324110/424721	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,860	Continuous	5/30/2018	ND	ND	Not a Source	
0		Marathon Petroleum Company, LP	1312 S. Fort Street	Detroit	Wayne	48229	2911/5183	324110/424722	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,861	Continuous	5/23/2018	54	450	Significant Source	
0		Marathon Petroleum Company, LP	1313 S. Fort Street	Detroit	Wayne	48230	2911/5184	324110/424723	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,862	Continuous	5/23/2018	ND	ND	Not a Source	
0		Marathon Petroleum Company, LP	1314 S. Fort Street	Detroit	Wayne	48231	2911/5185	324110/424724	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,863	Continuous	5/9/2018	33	250	Significant Source	
0		Marathon Petroleum Company, LP	1315 S. Fort Street	Detroit	Wayne	48232	2911/5186	324110/424725	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,864	Continuous	5/9/2018	ND	ND	Not a Source	
0		Marathon Petroleum Company, LP	1316 S. Fort Street	Detroit	Wayne	48233	2911/5187	324110/424726	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,865	Continuous	5/2/2018	46	210	Significant Source	
0		Marathon Petroleum Company, LP	1317 S. Fort Street	Detroit	Wayne	48234	2911/5188	324110/424727	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,866	Continuous	5/2/2018	ND	ND	Not a Source	

Marathon Petroleum Company, LP Marathon Petroleum Company, LP Marathon Petroleum Company, LP Marathon Petroleum Company, LP Marathon Petroleum Company, LP	Facility Address 1319 S. Fort Street 1320 S. Fort Street 1321 S. Fort Street	Detroit Detroit	County Wayne Wayne Wayne	Zip Code 48236 48237	SIU/CIU SIC Code(s) or NAICS Code(s) 2911/5190	SIU/CIU SIC/NAICS Primary Code Indicator 324110/424729	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s) 419.B.25 (PSES) and 419.B.27a Petroleum Refining	WWTP (GPD)	Continuous or Batch discharger?	Sample Date 4/18/2018	PFOA result (ng/l) 420 530	PFOS result (ng/l) 11 <98	Classification
Marathon Petroleum Company, LP Marathon Petroleum Company, LP Marathon Petroleum Company, LP Marathon Petroleum Company, LP	1320 S. Fort Street 1321 S. Fort Street 1322 S. Fort Street	Detroit Detroit	Wayne			324110/424729	CIU		1,718,868	Continuous	4/18/2018			
Marathon Petroleum Company, LP Marathon Petroleum Company, LP Marathon Petroleum Company, LP Marathon Petroleum Company, LP	1320 S. Fort Street 1321 S. Fort Street 1322 S. Fort Street	Detroit Detroit	Wayne			324110/424729	CIU		1,718,868	Continuous	4/18/2018	530	<98	
Marathon Petroleum Company, LP Marathon Petroleum Company, LP Marathon Petroleum Company, LP	1321 S. Fort Street 1322 S. Fort Street	Detroit	•	48237	2911/5191			i ca oleum kemmig						Source
Marathon Petroleum Company, LP Marathon Petroleum Company, LP	1322 S. Fort Street		Wayne		2311/3131	324110/424730	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,869	Continuous	4/18/2018	290	<23	Significant Source
Marathon Petroleum Company, LP		Dotus:t		48238	2911/5192	324110/424731	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,870	Continuous	4/26/2018	63	230	Significant Source
		Detroit	Wayne	48239	2911/5193	324110/424732	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,871	Continuous	4/26/2018	ND	ND	Not a Source
	1323 S. Fort Street	Detroit	Wayne	48240	2911/5194	324110/424733	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,872	Continuous	4/19/2018	44	480	Significant Source
Marathon Petroleum Company, LP	1324 S. Fort Street	Detroit	Wayne	48241	2911/5195	324110/424734	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,873	Continuous	4/19/2018	ND	ND	Not a Source
Marathon Petroleum Company, LP	1325 S. Fort Street	Detroit	Wayne	48242	2911/5196	324110/424735	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,874	Continuous	4/9/2018	19	390	Significant Source
Marathon Petroleum Company, LP	1326 S. Fort Street	Detroit	Wayne	48243	2911/5197	324110/424736	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,875	Continuous	4/9/2018	ND	ND	Not a Source
Marathon Petroleum Company, LP	1327 S. Fort Street	Detroit	Wayne	48244	2911/5198	324110/424737	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,876	Continuous	4/9/2018	20	230	Significant Source
Marathon Petroleum Company, LP	1328 S. Fort Street	Detroit	Wayne	48245	2911/5199	324110/424738	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,877	Continuous	4/6/2018	ND	ND	Not a Source
Marathon Petroleum Company, LP	1329 S. Fort Street	Detroit	Wayne	48246	2911/5200	324110/424739	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,878	Continuous	4/7/2018	20	230	Significant Source
Marathon Petroleum Company, LP	1300 S. Fort Street	Detroit	Wayne	48217	2911/5171	324110/424710	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,849	Continuous	10/8/2018	23	170	Significant Source
Marathon Petroleum Company, LP	1301 S. Fort Street	Detroit	Wayne	48218	2911/5172	324110/424711	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,850	Continuous	10/8/2018	ND	ND	Not a Source
Marathon Petroleum Company, LP	1300 S. Fort Street	Detroit	Wayne	48217	2911/5171	324110/424710	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,849	Continuous	11/7/2018	23	170	Significant Source
Marathon Petroleum Company, LP											11/7/2018	ND	ND	Not a Source
Marathon Petroleum Company, LP	1300 S. Fort Street	Detroit	Wayne	48217	2911/5171	324110/424710	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,849	Continuous	11/7/2018	23	170	MBR
Marathon Petroleum Company, LP				7021/	2711/31/1	527110/727/10	CIO	410 D 2E /DCFC) and 410 D 27-			11/7/2018	ND	ND	FRB
Marathon Petroleum Company, LP	1300 S. Fort Street	Detroit	Wayne	48217	2911/5171	324110/424710	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining 419.B.25 (PSES) and 419.B.27a	1,718,849	Continuous	1/2/2019	12	140	MBR
Marathon Petroleum Company, LP								Petroleum Refining 419.B.25 (PSES) and 419.B.27a	1,718,849		1/2/2019	10	140	MBR-Duplicate
Marathon Petroleum Company, LP								Petroleum Refining 419.B.25 (PSES) and 419.B.27a			1/2/2019	ND	ND	FRB
Marathon Petroleum Company, LP								Petroleum Refining	1,718,849		12/5/2018	34	250	MBR
Marathon Petroleum Company, LP								419.B.25 (PSES) and 419.B.27a				-	230	MBR A

M O D D D D D D	86 87 88 89 90	Marathon Petroleum Company, LP Marathon Petroleum Company, LP McGean-Rohco, Inc. McNichols Polishing & Anodizing, Inc. McNichols Polishing & Anodizing, Inc. Merlin Entertainments - Sea Life Michigan Miba HydraMechanica Corp.	38521 Schoolcraft Road 12139 Woodbine 12139 Woodbine 4316 Baldwin Road	Livonia Redford Township	Wayne	48150				419.B.25 (PSES) and 419.B.27a	4 740 050			420 7.9	11 100	MBR B	
O D D N D D	87 88 89	Marathon Petroleum Company, LP McGean-Rohco, Inc. McNichols Polishing & Anodizing, Inc. McNichols Polishing & Anodizing, Inc. Merlin Entertainments - Sea Life Michigan	12139 Woodbine 12139 Woodbine	Redford Township	,	48150					4 740 050		- 4: -	7.9	100	MBR B	
O D D N D D	87 88 89	McGean-Rohco, Inc. McNichols Polishing & Anodizing, Inc. McNichols Polishing & Anodizing, Inc. Merlin Entertainments - Sea Life Michigan	12139 Woodbine 12139 Woodbine	Redford Township	,	48150				Petroleum Refining	1,718,850		2/5/2019				
D D N D D	87 88 89	McNichols Polishing & Anodizing, Inc. McNichols Polishing & Anodizing, Inc. Merlin Entertainments - Sea Life Michigan	12139 Woodbine 12139 Woodbine	Redford Township	,	48150				419.B.25 (PSES) and 419.B.27a Petroleum Refining	, ,		2/5/2019	ND	ND	FRB	
D N D D	88 89	McNichols Polishing & Anodizing, Inc. McNichols Polishing & Anodizing, Inc. Merlin Entertainments - Sea Life Michigan	12139 Woodbine 12139 Woodbine	Redford Township	,		2842	325612	SIU	SIU	4,600	Continuous	9/11/2018	120	310	Significant	Yes
D N D D	88 89	McNichols Polishing & Anodizing, Inc. Merlin Entertainments - Sea Life Michigan	12139 Woodbine			40220 2417				413.44 D(b) (PSES)	•					Source	
N D D	89	Merlin Entertainments - Sea Life Michigan		Dodford Townshire	vvayile	48239-2417	3471	332813	CIU	Electroplating <10,000 gpd 413.44 D(b) (PSES)	765.00	Continuous	10/31/2018	<5	<10	Not a Source	
D D	89	_	4316 Baldwin Road	keulora rownship	Wayne	48239-2417	3471	332813	CIU	Electroplating <10,000 gpd	765.00	Continuous	11/29/2018	ND	ND	Not a Source	
D D		Miba HydraMechanica Corp.	.ozo Salamii Noda	Auburn Hills	Oakland	48326	8422		SIU	SIU 433.A.17a (PSNS) Metal	1,600	Batch	10/3/2018	<1.7	6.4	Not a Source	
D	90 91		6515 Cobb Dr.	Sterling Heights	Macomb	48312	3444	332322	CIU	Finishing	1,100.00	Continuous	10/31/2018	ND	ND	Not a Source	
	91	Microphoto, Inc Roseville	30499 Edison Drive	Roseville	Macomb	48066	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing 420.I.95a.1 (PSES) Iron and	2,788.00	Continuous	10/23/2018	ND	ND	Not a Source	
D	J <u>.</u>	MNP Corporation	44225 Utica Road	Sterling Heights	Macomb	48317	3315/3398/3 452	332722	CIU	Steel Manufacturing AND 433.A.15a (PSES) Metal Finishing	80,119.00	Continuous	10/25/2018	ND	ND	Not a Source	
	92	ND Industries, Inc	1893 Barrett Drive	Troy	Oakland	48084	2891	325520	CIU	Plastics Molding and Forming Point Source Category, 40 CFR Part 463.26 Plastics Molding and Forming	580.00	Continuous	10/30/2018	ND	ND	Not a Source	
D	93	NJT Enterprises, LLC	42400 Merrill Rd.	Sterling Heights	Macomb	48314	3089		CIU	Point Source Category, 40 CFR Part 463.26	11,300.00	Continuous	10/25/2018	ND	ND	Not a Source	
0	94	Oakland Heights Development, Inc.	2350 Brown Rd	Auburn Hills	Oakland		4953	562212	SIU		30,097	Continuous	9/12/2018	840	700	Significant Source	Yes
0	95	Perfection Industries, Inc.	18571 Weaver Road	Detroit	Wayne	48228	3471	332813	CIU	413.A.14(b)(f), 413.E.54(b)(f) (PSES) Electroplating Discharging <10,000 gpd	2,050	Batch	9/12/2018	ND	ND	Not a Source	
	96	Pine Tree Acres, Inc.	36600 29 Mile Road	Lenox Township	Macomb	48048	4953	562212	SIU	Landfill	161,215.0	Continuous	11/20/2018	1800	430	Significant Source	Yes
N	97	Plating Specialties, Inc.	1675 E. Ten Mile Road	Madison Heights	Oakland	48071-4219	3471	332813	CIU	413.A.14b (PSES) Electroplating <10,000 gpd	11,907	Continuous	9/26/2018	ND	10	Not a Source	
D	98	Premier Plating, LLC	32370 Howard	Madison Heights	Oakland	48071	3471	332813	CIU	433.A.17a (PSNS) Metal Finishing	1,000.00	Batch	10/30/2018	ND	ND	Not a Source	
D	99	PSB Credit Services, Inc.	561 Collier Rd.	Auburn Hills	Oakland	48326	4953		SIU	SIU	32,000.00	Continuous	11/28/2018	200	160	Significant	Yes
0	100	Quaker Chemical Corporation	14301 Birwood Avenue	Detroit	Wayne	48238	2992	324191	SIU	SIU	85,850	Continuous	9/11/2018	ND	ND	Source Not a Source	
0	101	Racer Trust (Groundwater)	13000 Eckles Road	Livonia	Wayne					Groundwater	726,850		5/24/2018	5	86	Significant	Yes
0		Racer Trust (Groundwater)								Groundwater			8/10/2018	5	96	Source Significant Source	
D	102	Remacon Compressors, Inc.	7939 McGraw Ave.	Detroit	Wayne	48210-2156	3563	333912	CIU	413.64F(b&f) (PSES) Electroplating <10,000 gpd	60.00	Batch	11/2/2018	ND	ND	Not a Source	
D	103	Richcoat, L.L.C.	40573 Brentwood	Sterling Heights	Macomb	48310	3471	332813	CIU	433.A.17(a) (PSNS) Metal Finishing	12,900.00	Continuous	10/22/2018	ND	30	Significant Source	Yes
		Richcoat, L.L.C.	40573 Brentwood	Sterling Heights	Macomb	48310	3471	332813	CIU	433.A.17(a) (PSNS) Metal Finishing	12,900.00	Continuous	1/18/2019	ND	ND	Additional Data	
										433.A.17(a) (PSNS) Metal Finishing	12,900.00	Continuous	2/18/2019	ND	ND	Additional Data	
D	104	Richter Precision, Inc Plant #3	17741 Malyn	Fraser	Macomb	48026	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	700.00	Continuous	11/16/2018	ND	ND	Not a Source	
D	105	RJL Equity Holdings, LLC	4430 Lapeer Road	Auburn Hills	Oakland	48326	4953		SIU	SIU	6,000.00	Continuous	11/2/2018	ND	20	Significant Source	Yes
D	106	Roberts & Son Black Oxide Specialist, Inc.	30665 Edison Drive	Roseville	Macomb	48066	3471	332813	CIU	433.A.17a (PSNS) Metal			10/23/2018	ND	ND	Not a Source	

		Attachment 1: Potential Sources Evaluated and Iden	tified for PFOS/PFOA by	GLWA - 2018/19)												
Report_month	User#	Facility Name	Facility Address	City	County	Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Significant Sources
														420	11		
	107	RT Holdings of Ohio, LLC	530 S. Rouge Street	Detroit	Wayne	48217	4953	562219	CIU	437.B.25 (PSES) Centralized Waste Treatment		No	discharge in 2	018 - Schedule	d for April 20:	19	
0	108	SAT Plating, LLC.	1837 Thunderbird Street	Troy	Oakland	48084	3471		CIU	433.A.17a (PSNS) Metal Finishing	1,400	Batch	9/10/2018	ND	ND	Not a Source	
0	109	Selfridge Air National Guard Base	127 WG/CE 28890 Selfridge Avenue	Selfridge ANGB	Macomb	48045	9999		SIU	SIU 433.A.17(a) (PSNS) Metal Finishing 413.A.14(c)(g), 413.D.44(c)(g),	153,264	Continuous	5/15/2018	21	240	Significant Source	Yes
0	110	Selfridge Plating, Inc.	42081 Irwin Road	Harrison Twsp.	Macomb	48045	3471	332813	CIU	413.E.54(c)(g); (PSES); Electroplating Discharging >10,000 gpd 433.A.17(a) (PSNS) Metal Finishing 413.A.14(c)(g), 413.D.44(c)(g),	17,617	Continuous	9/17/2018	ND	30	Significant Source	Yes
D	111	Selfridge Plating, Inc Technologies Division	56851 Gratiot Avenue	Harrison Township - Chesterfield	Macomb	48045-3410	3471	332813	CIU	413.E.54(c)(g); (PSES); Electroplating Discharging >10,000 gpd 433.A.17(a) (PSNS) Metal Finishing 433.A.17(a) (PSNS) Metal Finishing	4,910.00	Continuous	10/31/2018	ND	ND	Permit Cancelled Feb_2019 OOB	
D	112	South Macomb Disposal Authority	21290 - 24 Mile Road	Macomb	Macomb	48042	4953	562212	SIU	SIU	69,928.00	Continuous	10/25/2018	30	20	Significant Source	Yes
D	113	Southeastern Oakland County Resource Recovery Authority	1741 School Rd.	Rochester Hills	Oakland	48309	4953		SIU	SIU	37,400.00	Continuous	11/28/2018	30	40	Significant Source	Yes
D	114	SprayTek Inc Madison Heights	32451 NOrth Avis Drive	Madison Heights	Oakland	48071	3479		CIU	433.A.17a (PSNS) Metal Finishing	800.00	Continuous	11/3/2018	ND	ND	Not a Source	
D	115	SprayTek, Inc.	2535 Wolcott St.	Ferndale	Oakland	48220	3471		CIU	433.A.17a (PSNS) Metal Finishing	236.00	Batch	10/30/2018	10	ND	Not a Source	
N	116	Standard Coating (Howard Finishing, LLC)	32565 Dequindre	Madison Heights	Oakland	48071-1520	3479	332813	CIU	433.A.17a (PSNS) Metal Finishing	37,000	Continuous	10/23/2018	<1.7	<1.7	Not a Source	
N		Standard Coating (Howard Finishing, LLC)	32565 Dequindre	Madison Heights	Oakland	48071-1520	3479	332813	CIU	433.A.17a (PSNS) Metal Finishing	37,000.00	Continuous	11/3/2018	ND	ND	Not a Source	
	117	Sterling Metal Finishing	2500 Meldrum	Detroit	Wayne	48207	3471	332813	CIU	413.A.14(b) (PSES) Electroplating Discharging			Sched	uled for April 2	2019		
N	118	Superior Metal Finishing	3510 E. McNichols	Detroit	Wayne	48212-1618	3479	332813	CIU	413.E.54b (PSES) Electroplating <10,000 gpd	31,700	Continuous	10/15/2018	ND	ND	Not a Source	
D	119	Supreme Gear Company	17430 Malyn	Fraser	Macomb	48026	3566	333612	CIU	433.A.17a (PSNS) Metal Finishing	1,450.00	Batch	10/23/2018	ND	ND	Not a Source	
D	120	Supreme Gear Company - Plating Department	34410 Commerce	Fraser	Macomb	48026	3471	332813	CIU	433.A.17a (PSNS) Metal Finishing	1,500.00	Batch	11/1/2018	ND	ND	Not a Source	
N	121	The Crown Group Company - Livonia Plant	31774 Enterprise Drive	Livonia	Wayne	48150	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	80,000	Continuous	10/16/2018	ND	ND	Not a Source	
N	122	The Crown Group Company - Lynch Road Plant	6334 Lynch Rd.	Detroit	Wayne	48234	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	9,351	Continuous	10/16/2018	ND	ND	Not a Source	
D	123	The Crown Group Company - Shelby Plant	12020 Shelby Tech Drive	Shelby Township	Macomb	48315	3479	332812	CIU	433.A.17(a) (PSNS) Metal Finishing	19,300.00	Continuous	10/31/2018	ND	ND	Not a Source	
D	124	U.S. Wheel, Inc. (d/b/a Detroit Wheel and Tire)	1027 E 14 Mile	Troy	Oakland	48083	3471/3479	332813/332812	CIU	433.A.17a (PSNS) Metal Finishing	2,000.00	Continuous	10/30/2018	ND	ND	Not a Source	
D	125	Unicote Corporation	33165 Groesbeck Highway	Fraser	Macomb	48026	3479	332812	CIU	413.E.54(b) (PSES) Electroplating Discharging <10,000 gpd	5,980.00	Continuous	10/23/2018	ND	ND	Not a Source	

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Report_month	User#	Facility Name	Facility Address	City	County	Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	t Classification
														420	11	
										433.A.17a (PSNS) Metal						
D	126	Unistrut International Corporation	4205 Elizabeth St.	Wayne	Wayne	48184	3471	332813	CIU	Finishing and 420.L.126a.1 (PSNS) Iron and Steel Manufacturing	42,964.00	Continuous	10/19/2018	ND	ND	Not a Source
N	127	US Ecology Michigan, Inc.	6520 Georgia Street	Detroit	Wayne	48211-1661	4953	562211	CIU	437.D.46b.1 (PSES) Centralized Waste Treatment	75,000	Batch	10/15/2018	ND	30	Significant
0	128	Usher Oil Company	9000 Roselawn Street	Detroit	Wayne	48204	5093	562219	CIU	437.D.46e (PSES) Centralized Waste Treatment	340,000	Batch	9/11/2018	40	120	Source Significant Source
М	129	Waste Management of MI, IncEagle Valley Recycle & Disposal	600 W. Silverbell Road	Orion	Oakland	48359	4953		SIU	Landfill	29,537	Continuous	11/20/2018		170	Significant Source
М	130	Waste Management of MI, IncWoodland Meadows North Landfill	4620 Hannan Road	Wayne	Wayne	48184	4953	562212	SIU	Landfill	14,917	Continuous	11/20/2018	150	57	Significant Source
М	131	Waste Management of MI, IncWoodland Meadows RDF-Van Buren	5900 Hannan Road	Wayne	Wayne	48184	4953	562212	SIU	Landfill	36,025	Continuous	11/20/2018	2000	510	Significant Source
0	132	Waterford Hills Landfill/MDEQ, RRD	7900 Gale Road	Waterford	Oakland	49201	4953		SIU	SIU	2,000	Continuous	8/2/2018	680	130	Significant Source
D	133	Welders & Presses Inc. (WPI)	27295 LuckiNO Dr	Chesterfield Township	Macomb	48047	3479		CIU	433.A.17a (PSNS) Metal Finishing	5,000.00	Continuous	10/24/2018	ND	ND	Not a Source
N	134	Westside Flame Hardening, Inc.	38200 Executive Dr.	Westland	Wayne	48185	3398/3479	332811/332812	CIU	433.A.17a (PSNS) Metal Finishing 413.14A©, 413.54E© (PSES)	1,000	Continuous	10/15/2018	ND	ND	Not a Source
N	135	Williams Diversified, Inc.	13170 Merriman Road	Livonia	Wayne	48150-1816	3471	332813	CIU	Electroplating; 433.17A(a) (PSNS) Metal Finishing	55,784	Continuous	10/15/2018	ND	ND	Not a Source
0	136	Wolverine Plating Corporation	29456 Groesbeck Highway	Roseville	Macomb	48066	3471	332813	CIU	413.A.14c (PSES) Electroplating	114,150	Continuous	9/10/2018	ND	60	Significant Source
D	137	X-Cel Industries, Inc.	21121 Telegraph Road	Southfield	Oakland	48033	3479	332812	CIU	433.A.17a (PSNS) Metal Finishing	39,800.00	Continuous	10/30/2018	ND	ND	Not a Source
N	138	Xcel Steel Pickling	4343 Wyoming	Dearborn	Wayne	48126	5051	423510	CIU	420.I.95b.2 (PSES) Iron and Steel Manufacturing	39,800	Continuous	10/15/2018	ND	ND	Not a Source
D	139	XRI Testing	1961 Thunderbird	Troy	Oakland	48084	8734/3479		CIU	433.A.17a (PSNS) Metal Finishing	9,452.00	Continuous	10/30/2018	ND	ND	Not a Source
N	140	Z Technologies Corporation	26500 Capitol Avenue	Redford Township	Wayne	48239-2506	2891	325520	CIU	446.16a (PSNS) Paint Formulating	510	Continuous	10/15/2018	20	60	Significant Source
J, F	141	MDOT - Parcel 5348	330/340 Livernois	Detroit	Wayne	48209	N/A			Groundwater	320,000.00	Continuous	1/18/2019	29	14	Significant Source
	142	Domestic Background Sample	7 Mile @ Hamilton	Detroit	Wayne	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11/1/2018	ND	ND	Not a Source
		Permit Canceled - Change in Facility Opertion or Status														
	143	Ferro Industries Inc.	35200 Union Lake Road	Harrison Township	Macomb	48045	3089	326199	Not CIU	Plastics Molding and Forming Point Source Category, 40 CFR	MDEQ List			No Sample		Permit Cancelled
	144	General Dynamics Land Systems	38500 Mound Road	Sterling Heights	Macomb	48310-3200	8711	541330	Not SIU	433.A.17(a) (PSNS) Metal Finishing 433.A.17a (PSNS) Metal	MDEQ List			No Sample		Permit Cancelled Permit
	145	IBC Precision Inc.	2715 Paldan Drive	Auburn Hills	Oakland	48326	3471	332710	Not SIU	Finishing	MDEQ List			No Sample		Cancelled
	146	Metal Improvement Co., LLC-Part of Curtiss-Wright Surface T	14830 23 Mile Road	Shelby Township		48315	3479	332812	Not SIU	433.A.17(a) (PSNS) Metal Finishing	MDEQ List			No Sample		Permit Cancelled
	147	Troy Laboratories, Inc.	440 South Street	Rochester	Oakland	48307	3471	332813	ООВ	413.44D(b&f) (PSES) Electroplating <10,000 gpd	MDEQ List			No Sample		Permit Cancelled
	148	Curtis Industrial Services, Inc.	9797 Erwin Ave	Detroit	Wayne	48213	1799	238320	ООВ	- · · · ·				No Sample		Permit Cancelled





Industrial Pretreatment Program

Wastewater Discharge Disclosure (Short Form)

User ID Nbr:	(office	use
OSEL ID NOL.	Julice	use

It shall be unlawful for users to discharge into the POTW any wastewater which will cause interference or pass through, or otherwise not comply with the discharge prohibitions of Section 56-3-59.1 of this Code. [Ch 56, Division 3].

The Great Lakes Water Authority (Authority) is required to maintain a record of Industrial and Commercial users who utilizes the sewerage collection and treatment system operated by the Authority. Please complete and return this form to us within fourteen days. We will contact you if additional information is needed. Should you have questions, please contact us at (313) 297-5874 or Omran.sherif@glwater.org.

Facility Name:	<u></u>
Mailing Address:	<u></u>
Facility Address:	[] Same as Mailing Address
City and Zip Code:	<u></u>
Facility Contact Person:	<u></u>
Title of Contact Person: Pho	ne Number:
Business Type: [] Retail/Merchandise [] Food Establishr	ment
[] Manufacturing [] Light Industrial [] Comme	rcial [] Other
Provide additional narrative description if Manufacturing, Light Industr	ial, <u>Commercial</u> or <u>Other</u> is
checked above for activities performed on premises:	
	_
	_
Water Consumption: [] 0 – 10,000 gallons per day []	10,000 – 25,000 gallons per day
[] 25,000 – 50,000 gallons per day [] N	More than 50,000 gallons per day
Are any wastes other than wastewater of human origin (Sanitary) being	g discharged to the sewer system
that is heating/cooling, cleaning, manufacturing or process waste? []	Yes [] No
If yes, describe:	
Do you: Store more than 55 gallons of: [] Solvents [] (Oil [] Paints
[] Acids [] Caustics [] Other Chemicals (Desc	ribe)
[] Waste Manifests Available	
Do you: Use or store PFOS, PFOA, PFAS containing substances [] Yes [] No
Print name and Title of Person Completing this Form:	
Signature of Person Completing this Form:	

 Place Stamp Here

GREAT LAKES WATER AUTHORITY INDUSTRIAL WASTE CONTROL SURVEY SECTION 9300 W. JEFFERSON, SUITE 210 DETROIT, MI 48209 ATTN: Omran Sherif



Wastewater Operating Services Industrial Waste Control

9300 W. Jefferson, Ste. 210 Detroit, MI 48209

Phone: 313-297-5850

PERMIT APPLICATION FOR SIGNIFICANT INDUSTRIAL USER

This application/questionnaire is designed to enable the Great Lakes Water Authority (GLWA) to make a determination for issuance/reissuance of Industrial Wastewater Discharge Permits. Significant Industrial User who discharge process wastewater in addition to sanitary waste into the sewerage system tributary of the GLWA Water Resource Recovery Facility are required to file this application/reapplication.

- 1) This application must be filed ninety (90) days prior to commencement of discharge and signed by an Authorized Representative of the industrial user.
- 2) This application must include all information specified in section 56-3-61.1(c) of the Detroit City Code and (as applicable) include all information needed to satisfy the federal Baseline Monitoring Report (BMR) requirements of 40 CFR 403.12(b)(1-7).
- 3) A separate application is required for each separate facility.

Sec	ction A. Ge	neral Information	BMR	Applicat	ion Reapplication	Permit No.				
1	Company I	Name								
2	Facility Address			•••						
3	Mailing Address			***						
4	Name of Authorized Representative									
	Title	水水水			Telephone Number	****				
5	Facility Co	ntact Person		***						
	Title	***			Telephone Number	****				
6	Certification	on Statement								
	I certify under penalty of law that I have personally examined and I am familiar with the information in this application and all attachments and that based on my inquiry of those persons immediately responsible for obtaining the information contained in this application. I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment.									
	Authorized	d Representative Signa	ature							
	Date			***						

Sec	tion B. Business/Product/Service			
1	Do you perform any of the processes listed in Appendix	x A?	Yes	□No
	If yes, please list process(es) below			

2	Give a narrative description of all processing operations	s or service activities taking p	place at the faci	lity address.

3	Describe your principal product or service (Please see Appendix B and answer all items pertaining to Pe	or and Boly flournally Substa	ncos (DEAS)	
	Triedse see Appendix B and answer an items pertaining to re	er- and Poly-nouroalkyi Substa	iices (FFA3).	
4	North American Industrial Classification (NAICS) Code	****		
5	Standard Industrial Classification (SIC) Code	4444		
6	Shift and Employee Information			
	Discharge on legal holidays *			
	Number of workdays per week			
	Number of shifts per day	****		
	Operating hours per day			
	Number of Employees			
7	What month and year did your operations begin?			
8	What month and year did the facility's categorical operation(s) begin at the current location?			
9	What month and year did the facility begin discharging wastewater to the sewer?	****		
* 1 6	gal Holidays - New Year's Day, Martin Luther King Day, Memorial Da	av Independence Day Tahor Day	Thanksgiving Day	Christmas Day

Section C. Other Federal, State a	Section C. Other Federal, State and Local Environmental Control Permits								
List any Environmental Control Permits held by or for this facility									
Regulatory Agency Name	Permit Number	Purpose of Permit							
****	***	****							
****	***	****							
****	***	****							

Section D. Wate	er Consumption		iny water, wastewater	cluding volume purchased through water brought into facility (truck, drum, etc.). If water bills.
From		****	То	
1 st Quarter	****		2 nd Quarter	
3 rd Quarter	***		4 th Quarter	
Please check unit	below that applie	es to the water usage	information above	
Cubic Feet (ft³)	100 Cub	ic Feet (ccf)	allons Othe	r
Water from other	sources (ground	water, truck, other) Pl	ease describe sourc	es and quantities used

Sec	tion E. Wastewater / Solid – Liquid Wastes							
1	Does your company have a wastewater treatment system or operation designed to reduce pollutant levels prior to discharge to the sewer? If yes, describe your specific pretreatment system below.	□Yes □No						
2	Please check all applicable methods of disposal used for wastewater and any solid/l your facility.	iquid waste materials from						
	Method of Disposal (Check all that apply)							
	Discharged to sewer Hauled to Landfill Treated On-site Disc	charged to Pond or Lagoon						
	Hauled to off-site Treatment facility (see #3) Other (Describe *)							
3	For wastes hauled off-site, are waste manifests available?							
	If yes, provide copies of all waste manifests for last 12 months							
4	Does you facility have secondary containment for spill control? (Dikes, trenches, storage controls)							
5	Does your facility have any floor drains in the chemical storage area?	□Yes □No						
6	Does your company submit Tier I or II information under the SARA Title III Program?	Yes No						
7	Please indicate if you are required to submit any of the following regulatory docur	nents. (Check all that apply)						
	Spill Prevention Countermeasure Control Plan (SPCC) Pollution Incident Prevention Plan (PIPP)	ntingency Plan						
	Materia Safety Data Sheet R Form (Toxic chemical release plants) reporting form) Dis	atment, Storage and posal Facility Operating ense						
	I discharge substances characterized as hazardous waste under 40 CFR 261 (attach co	py of 40 CFR 403.12(p) report)						
	Other Regulatory Documents (Describe *)							

Section F. Process Descriptions/Wastestream Discharge Flows									
	Wastewater Flo	w (Gallons/Day)	Discharge	Frequency					
Process Descriptions	Average	Maximum	Batch ¹ , Intermittent ² , or Continuous ³	Regulated ⁴ , Non-regulated, or Dilution					
			ини	nnan					
			ини	nnn					
	***	***	unu	nnn					
****	***	***	000	0000					
****	****	****	8888	*****					
****	****	****	8888	*****					
****	***	***	000	0000					
****	•	•		0000					
Non-Contact Cooling Water	****	••••	8888	4444					
Sanitary	****	••••		####					
Total Plant Flow	****	••••							

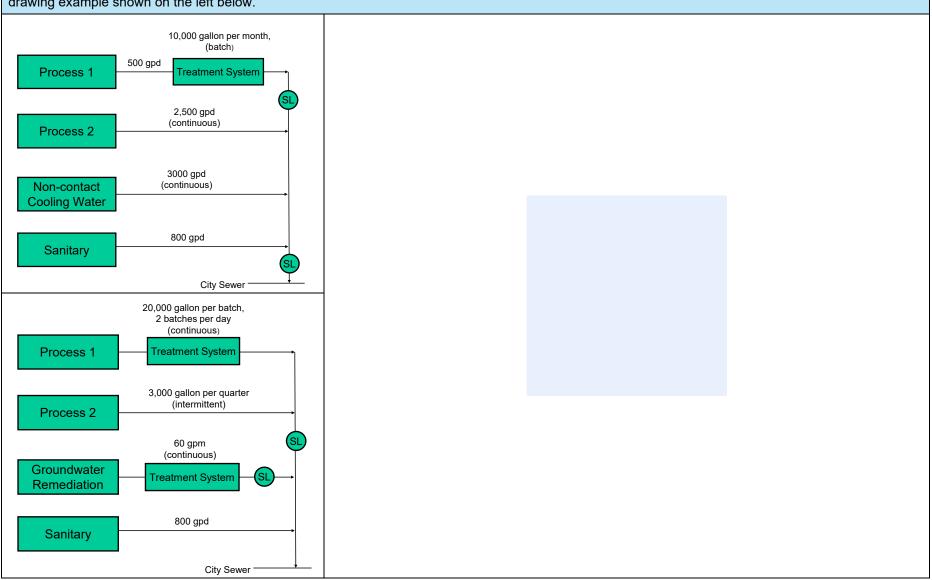
Batch – wastewater discharge occurs on a periodic or episodic basis as part of a volume
 Intermittent - wastewater discharge infrequently e.g., discharge occurs at intervals of 30 days or greater

³ Continuous - wastewater discharge occurs on a regular basis

⁴ As defined by 40 CFR 403.6

Section G. Wastewater Flow Schematic

Please draw a simplified schematic showing the wastewater flows from each process as they combine to discharge into the city sewer. Refer to the drawing example shown on the left below.



Section H. Wastewater Sampling Location Description					
Describe the location(s) of all sampling site(s) and reference to facility schematic (Section G)					

Section I. Sampling Methodology								
SL1	SL2	SL3	SL4	Composite Sampling Method (Elect one method only per Sampling Location)				
				Flow-Proportional Composite Sampling				
				<u>Time</u> -Proportional Composite Sampling (Submit demonstration that requires approval from GLWA)				
				Flow/Time-Proportional Composite Sampling (If undecided, submit sampling plan)				

All wastewater sampling must be collected in a manner and form intended to represent the wastewater discharged. Following written notice from the Authority, a permittee shall provide an approvable sampling plan within 60 days of permit issuance. The sampling plan shall describe the sampling protocols and methods of sampling that will be used at their facility during the term of this permit.

At a minimum, the sampling plan shall describe the sampling methods to be used for each pollutant parameter identified in the permit. All composite samples shall be collected using flow-proportional sampling methods unless the Authority authorizes time-proportional sampling.

Where flow-proportional sampling methods are used, the sampling plan shall identify the flow measuring equipment available for performing such sampling, the most recent calibration records and the expected daily wastewater discharge volume, hours of discharge, sample volume and the sample aliquot volume.

Time-proportional sampling will only be authorized by the Authority where (i) the permittee can demonstrate with recorded flow data, or through equivalent methods, that their wastewater has a constant discharge rate or (ii) the volume of discharge is no greater than 10,000 gallons and the period of discharge is 4 hours or less.

If needed, a schedule for installation of flow measuring equipment. During the construction period, time-proportional sampling shall be used to collect samples until the flow measuring equipment is installed and calibrated. The time available for this schedule shall not exceed 180 days following permit issuance.

Section J: Wastewater Analytical Results and Analyses																			
1	Do you have any analytical results of your wastewater discharge? (Mandatory Requirement for BMR and/or Permit Application)									No									
	If yes, please record your data below and attach copies of the analytical results with this application. Where data is not available, you will be re to provide sampling results following notice of permit eligibility.							l be red	quired										
	Wastestream	Arsenic	Cadmium	Chrome	Copper	Available Cyanide	Iron	Lead	Mercury	Nickel	Silver	Zinc	Total PCB	Total Phenol	Hd	BOD	FOG	Ь	TSS
	****	***	# # # # # # # # # # # # # # # # # # #	***	* * * *	***	** ** **	** **	* * *	* * *	**	44 44 44	· · · · · · · · · · · · · · · · · · ·	**	*c *c *c *c	* * * *	***	***	* * *
		4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	**	4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +	***	# # # #		· · · · · · · · · · · · · · · · · · ·	4x 4	***	* * * * * * * * * * * * * * * * * * * *	**	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	** *** ***	** ** ** ** ** ** ** ** ** ** ** ** **	****	***	****	4x 4
2	Based on the analytical data provided, are pretreatment standards being met on a consistent basis?							No											
	If No, what additional operational and maintenance plans are under consideration to attain compliance? Describe below.																		
3	If you respond "Yes" to any items in Appendix B, the company is required to sample and analyze the following PFAS pollutants (Analytical Requirement: US EPA Method 537 (modified) or ASTM D7979).																		
	Perfluorobutanoic acid PFBA Perfluorododecand			decano	ic acid	PF	DoDA		F	erfluoro	nonane	e Sulfon	ic acid	PFNS	5				
	Perfluoropentanoic acid PFPeA Perfluorotridecano			ic acid	PF	TrDA	***	F	erfluoro	odecane	Sulfoni	c acid	PFDS	5	***				
	Perfluorohexanoic acid PFHxA Perfluorotetradeca			noic acid PFTeDA I			Perfluorooctane sulfonamide FOSA				4	***							
	Perfluoroheptanoic acid	PFHp	А	***	Perfluorobutane Sul			ulfonic acid PFBS		PFBS	***	4	4:2 Fluorotelomer sulfonic acid 4:2 FTSA				***		
	Perfluorooctanoic acid	PFC)A	***	Perfluoropentane S			Sulfonic acid PFPeS			***	e	6:2 Fluorotelomer sulfonic acid 6:2 FTSA				***		
	Perfluorononanoic acid	PFN	1A	***	Perfluorohexane Su			Sulfonic acid PFHxS			***	8	8:2 Fluorotelomer sulfonic acid 8:2 FTSA				***		
	Perfluorodecanoic acid	PFC	PΑ	***	Perfluoroheptane S			Sulfonic acid PFHpS			***		N-Ethyl perfluorooctane sulfonamidoacetic acid EtFOSAA					***	
	Perfluoroundecanoic acid	PFUnD	Α	***	Perf	luorooct	tane Su	Ifonic a		PFOS	***	١	I-Methy	l perflu	oroocta		namide MeFOSA		***

Sec	ction K: Additional Requirements for Permit Reappl	ication Only							
1	Indicate if you intend to monitor for the Individual Pheno Total Phenols	olic Compounds or	Elect to monitor Phenolic Compou			Elect to monitor Total Phenols			
2	For facilities subject to Electroplating (40 CFR 413), Meta 433) and/or Electrical and Electronic Components (40 include an updated Toxic Organic Management Plan (TC a Total Toxic Organic (TTO) Analyses?	CFR 469), did you	Submit an update	ed TOMP		Submit current TTO analyses			
3	For facilities subject to Aluminum Forming (40 CFR 467) Casting (40 CFR 464), Copper Forming (40 CFR 468), Subpart D Can-Making (40 CFR 465), indicate if you into Oil & Grease or Total Toxic Organics	or Coil Coating -	Elect to monitor Grease	Oil and		Elect to monitor Total Toxic Organics			
4	For facilities subject to Transportation Equipment Clear submit an updated Pollutant Management Plan.	ning (40 CFR 442),	Attached submitt	None attached					
5	For facilities subject to Mass or Production Based Categorical Pretreatment Regulations, include the Mass (raw materials processed onsite), Volum (corresponding water usage) and processing period (at least last 12 months).								
	Raw Materials Processed	Amount Materials	s Processed per Unit Time	e*	Water Usage Volume				

			****			****			
			****			***			
	* specify the amount of materials processed per unit time (e.g. poun	d/year, ft²/day, meter²,	/week, kg/month, etc.)						
	Processing Period from		****	to		****			

Section L: For each sewage flow-meter installed at your facility, provide the following information (Add additional sheets as necessary)

Flow Meter Information							
Model							
Serial Number	***						
Units	***						
Totalizer							
Pulse/Volume	***						
Gallons/Pulse	****						
	Flow Meter Information						
Model	****						
Serial Number	***						
Units	****						
Totalizer	***						
Pulse/Volume	4444						
Gallons/Pulse	4444						
	For each Water Meter installed at your facility, provide the following information						
(Add additional sheets a	(Add additional sheets as necessary). Indicate if "Fire only", etc Water Meter Information						
Community	****						
Wholesale Provider	***						
Water Meter ID #	***						
Units	***						
Size:	***						
Comment							
Water Meter Information							
Community	****						
Wholesale Provider	***						
Water Meter ID #	***						
Units	***						
Size:	***						
Comment							

Appendix A INDUSTRIAL PROCESSES

Appen No.		PROCESSES PROCESSES	40 CFR Part
	1	Aluminum Forming	467
	2	Anodizing	413, 433
	3	Asbestos Manufacturing	427
	4	Battery Manufacturing	461
	5	Builder's Paper & Paperboard Mills	431
	6	Carbon Black Manufacturing	458
	7	Canned and Preserved Fruits / Vegetables	407
	8	Canned and Preserved Seafood Processing	408
	9	Casting Operations	421, 464, 467, 471
	10	Cement Manufacturing	411
	11	Centralized Waste Treatment	437
	12	Chemical Etching	413, 433
	13	Coal Mining	434
	14	Coating	413, 433
	15	Coil Coating	465
	16	Cold Rolling	420, 467, 468, 471
	17	Copper Forming	468
	18	Dairy Products Processing	405
	19	Drawing	420, 467, 468, 471
	20	Electrical & Electronic Components	469
	21	Electroless Plating	413, 433
	22	Electroplating	413, 433
	23	Explosives Manufacturing	457
	24	Extruding	420, 467, 468, 471
	25	Feedlots	412
	26	Ferroalloy Manufacturing	424
	27	Fertilizer Manufacturing	418
	28	Forging	420, 467, 468, 471
	29	Foundries	420, 421, 464
	30	Fruits & Vegetable Processing	407
	31	Glass Manufacturing	426
	32	Grain Mills Manufacturing	406
	33	Gum & Wood Chemicals Manufacturing	454
	34	Hospitals	460
	35	Hot Rolling	420, 467, 468, 471

No.		PROCESSES	40 CFR Part
	36	Ink Formulating	447
	37	Inorganic Chemicals Manufacturing	415
	38	Iron & Steel Manufacturing	420
	39	Landfills	445
	40	Leather Tanning & Finishing	425
	41	Meat Processing	432
	42	Metal Finishing	433
	43	Metal Molding & Casting	421, 464, 467,471
	44	Metal Products & Machinery	438
	45	Milling	413, 433
	46	Mineral Mining & Processing	436
	47	Nonferrous Metals Forming & Metal Powders	471
	48	Nonferrous Metals Manufacturing I and II	421
	49	Oil & Gas Extraction	435
	50	Ore Mining & Dressing	440
	51	Organic Chemicals, Plastics, & Synthetic Fibers	446
	52	Paint Formulating	446
	53	Paving & Roofing Materials (Tars & Asphalt)	443
	54	Pesticide Chemicals Manufacturing	455
	55	Petroleum Refining	419
	56	Pharmaceutical Manufacturing	439
	57	Phosphate Manufacturing	422
	58	Photographic Processing	459
	59	Plastic Molding & Forming	463
	60	Porcelain Enameling	466
	61	Printed Circuit Board Manufacturing	413
	62	Pulp, Paper, & Paperboard Mills	430
	63	Refining	421
	64	Rubber Processing	428
	65	Smelting	421
	66	Soap & Detergent Manufacturing	417
	67	Steam Electric Power Generation	423
	68	Sugar Processing	409
	69	Textile Mills Manufacturing	410
	70	Timber Products Manufacturing	429
	71	Transportation Equipment Cleaning	442

Appendix B SOURCES of PER- and POLY-FLOUROALKYL SUBSTANCES (PFAS)

Last year 2018, the State of Michigan, through the Michigan Department of Environmental Quality, required the GLWA to identify and determine the possible sources of Per- and Poly-fluoroalkyl Substances (PFAS) within the Great Lakes service areas. Due to PFAS' impacts on human health and impairments on fisheries, the following are incorporated in this application. Please answer all items accordingly.

1	Does your company use/store PFAS in the past?	Yes	□No
	If Yes, indicate approximately when the company uses PFAS in the past.	<u> </u>	-5 years
		□ 6-	-10 years
		□ >	10 years
2	Does your company currently use/store PFAS?	Yes	□No
3	Does your company plan to use PFAS in the future?	Yes	□No
4	Does your company use AFFF fire fighting foam?	Yes	□No
5	Does your company perform coating operation (i.e. chrome plating)?	Yes	□No
6	Does your company use textile and/or fabric protection chemicals?	Yes	□No
7	Does your company use fume and vapor suppressants, demisters or wetting agents?	Yes	□No
8	Does your company receive offsite waste for storage and transport?	Yes	□No
9	Is the company a Centralized Waste Treatment facility?	Yes	□No
10	Is the company a landfill?	Yes	□No
11	Is the company a tannery or uses leather treatment chemicals?	Yes	□No
12	Does your company perform paint formulations?	Yes	□No
13	Does your company manufacture chemicals?	Yes	□No
14	Does your company produce packaging materials using paper and/or cardboard?	Yes	□No
15	Does your company perform petroleum processing or refining?	Yes	□No
16	Does your company use PTFE coatings or Teflon?	Yes	□No

If you respond "Yes" to any items above, the company is required to sample and analyze the PFAS pollutants as enumerated in Section J, 3.



Section A. General Information

Business Name of Applicant

Mailing Address

2

Wastewater Operating Services Industrial Waste Control

9300 W. Jefferson, Ste. 210 Detroit, MI 48209

Phone: 313-297-5850

Permit No.

SPECIAL DISCHARGE PERMIT APPLICATION

This application is hereby made to obtain a Special Discharge Permit from the Great Lakes Water Authority (GLWA). The information provided in this application will be used to decide whether a permit can be granted. Permits are required for all discharges, which contain regulated pollutants, made into the sewerage system and its tributaries.

Application

Reapplication

3	Name of A	uthorized Representative					
	Title	****		Telephone Number	****		
4	Project Site	e Name	***				
	Project Ad	dress	***				
5		ne Site Owner from applicant)	***				
6	Name of C	onsultant (if applicable)	***				
	Consultant	Address	***				
7	Name of C	ontact Person	***				
	Title	•••		Telephone Number	****		
	Email addr	ress	***				
Sec	tion B. Si	te Specific Information					
1	Source and	d type of pollutants at site (List a	activities and/or s	sources which contributed to	the site contamination)		
2	•	nvironmental regulations and/o			ive license number(s) and		
	permit nur	mbers(s). Also provide details al	oout the site cla	assification, if applicable.			

3	Has there below.	been any previous denial for o	discharge for th	nis site? If yes, explain	Oyes Ono		
					1		

4	Description of the wastewater treatment facility. Also attach a written and more detailed description of the
	treatment system, if available. Include carbon breakthrough calculations, if applicable.
5	Attach drawings showing (1) Location of the site (map), etc.; (2) Site layout (monitoring wells, recovery well(s), if
	determined, leaking tanks, sanitary sewers, storm sewers, discharge conduit and location of discharge point, treatment
	system, property boundaries); (3) Flow sheet of treatment system including location of necessary sampling valves
	(influent, mid-fluent, effluent)

Sec	Section C. Wastewater Discharge						
1	Indicate the constituents t	hat are or could be pres	sent in the	e wastewat	ter		
	Ammonia	Oil and Grease	\bigcirc	Acids		0	Flammable Substances
	Pesticides	Detergents	\bigcirc	Caustics		0	Solvents
	PCBs	Heavy Metals	\bigcirc	Sulfides		0	Radioactive Substances
	Brine	Mud, Sand, Silt	\bigcirc	Other:	***		
2	Describe the method of disgravity flow, pressure flow, h		er from th	e site to th	e sewer syst	em (a	bove ground, in ground,
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
3	Describe the location of th	e proposed point of dis	charge (in	dicate also	on site plan)		

4	Total estimated volume of the project	water to be discharged	l over the	duration o	f 	***	gallons
5	Proposed duration of the o	discharge project			***		
6	Proposed rate of discharge	2			gpd,		gpm (max.)
7	Schedule of discharge		from	***	to	***	(hours)
			from	****	to	****	(days of week)
8	Type of discharge			0	Batch		Continuous

Section D. Wastewater Analysis

- Attach analytical results of the wastewater to be discharged. Samples should be representative of the untreated and contaminated recovery stream (groundwater and/or collected water). The results are used in breakthrough calculations (activated carbon treatment) and also serve as a determination of prohibited pollutants present at the site.
- Sampling and analysis must be conducted in accordance with the EPA protocol in 40 CFR 136. At a minimum, samples are to be analyzed for pH, BOD, TSS, P, FOG, metals and toxic organic priority pollutants according to the attached list.
- Required sampling includes the recovery well (if determined) and at least two other monitoring wells in the contaminated area (contaminant plume).

- Detection limits of the method must be stated. Interferences require documentation. Higher detection limit due to dilution must be indicated. All analysis reports should be supported by a QC report.
- The State of Michigan, through the Michigan Department of Environmental Quality, required the GLWA to identify and determine the possible sources on discharges of Per- and Poly-fluoroalkyl Substances (PFAS) within the Great Lakes service areas. As a result, all source dischargers, where the Special Discharge Permit is applied for that perform/handle any of the following operation/process as tabulated below, are required to sample and analyze for PFAS pollutants (see attachment, page 9) as this becomes mandatory due to the potential impacts on human health and impairments on fisheries.

Airfield	Leather Tanning and Processing	Handle any of the following:		
Centralized Waste Treatment	Paint Formulating	Aviation Fuel Storage		
Chemical Manufacturing	Paper & Cardboard	Fire-Fighting Materials		
Electroplating and Metal Finishing	Definer	Fire Department Foam Response		
(e.g. chrome plating)	Refinery	PFAS (see page 9 for PFAS listings)		
Industrial/Commercial Loundries	Transportation Favinment Cleaning	Photo Lithography / Photographic		
Industrial/Commercial Laundries	Transportation Equipment Cleaning	Coating		
Landfills	Textiles	Underground Storage Tank /		
Lanumis	Textiles	Aboveground Storage Tank		

• If the site is listed in Table – Non-Residential/Commercial Establishments (see page 10), the applicant is exempted from wastewater sampling and analysis.

Section E. Acceptance from Local Agency

Attach a letter of acceptance from the local community allowing the discharge of wastewater from the site into the sanitary sewer at a specified discharge location. The acceptance letter shall include details of the location of a specific discharge point. Discharge into a storm system leading to open waters is prohibited.

Section F. Fee

The company shall pay applicable fees to the GLWA, or local authority based on the actual volume of wastewater discharged into the sewer system and any violations of the permit parameter limitations. Failure to pay the sewerage fees and fine can be subjected to appropriate enforcement action as determined by the GLWA or by the local authority.

Section G. Certification Statement

I certify under penalty of law that I have personally examined and I am familiar with the information in this application and all attachments and that based upon my inquiry of those persons immediately responsible for obtaining the information contained in this application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and/or imprisonment.

Authorized Representative Signature	Date
Authorized Representative Name (Please print)	Telephone No.

Instructions for Completing the Special Discharge Permit

The application consists of six sections listed as follows:

Section A - General Information

Section B - Site Specific Information

Section C - Wastewater Discharge

Section D - Wastewater Analysis

Section E - Acceptance Letter from Local Authority

Section F - Fee

Section G - Certification Statement

A. General Information

- 1-3 Give the complete business name and mailing address of the applicant. Indicate if the applicant is a site owner or consultant or others. Specify the name, title and phone number of the designated contact person employed by the applicant.
- 4-5 Give the specific project's site name and address at which the wastewater is collected or generated. Give the name of the present owner and also the previous owner(s) under whose ownership the site was contaminated. If the wastewater is treated and/or disposed off-site, indicate the off-site location under.
- 6-7 Give the name and address of the consultant if different from the applicant; else, specify N/A (i.e. not applicable). Also provide the name of the contact person (project leader or engineer), phone number and fax number. The consultant is the company providing technical expertise and professional advice to the applicant.

Additional details should be provided when two or more parties are involved. Specify the business relationship between company and person(s) involved.

B. Site Specific Information

- Briefly describe present and previous activities, the nature of business operations and processes which were involved in contaminating the site.
- 2 Identify and explain if the site is classified under the following list; else, specify N/A.
 - a) EPA National Priority List (NPL)
 - b) Michigan Environmental Contamination Priority List (under Act 307)
 - c) Sites contaminated by chemicals listed in the EPA Priority Pollutant List and/or the Michigan Critical Materials List, and/or
 - d) Sites covered by other regulations and licenses.
- Indicate and explain if the site was previously denied by the Detroit Water and Sewerage Department (DWSD), Great Lakes Water Authority (GLWA) or any other agency from discharging the accumulated and/or stored wastewater.
- If the initial wastewater analysis shows unacceptable pollutant levels, a pretreatment system may be required. Describe the processes and methods employed to treat the wastewater. Attach a more detailed description of the treatment process, such as used in a proposal or project description, if available. Also, attach any calculations showing treatment efficiency such as carbon breakthrough calculations, etc.

Submit essential drawings as described in the application form. Note that any facilities are prohibited from discharging wastewater into the storm sewers (i.e. leading to open waters) without the Michigan Department of Environmental Quality's approval. Care must be taken to determine proper sewer lines that are connected to the GLWA collection system. If necessary, consult with your local authority and/or the GLWA.

C. Wastewater Discharge

- 1 Mark the pollutants suspected to be present in the wastewater.
- Verify the manner of discharging the wastewater assuring the GLWA that the discharge will be made to the proper sanitary sewer and not to the storm sewer. Indicate whether the system is combined or not. Describe the type of conduit that will carry the discharge. Care must be taken that pedestrian and vehicle traffic is safe and not unduly impeded.
- 3-8 Self-explanatory.

D. Wastewater Analysis

To determine the presence of known, suspected and other pollutants, the following parameters must be analyzed:

pH, BOD, TSS, P, FOG, metals (As, Cd, Cu, Fe, Pb, Hg, Ni, Ag, Cr and Zn), CN and priority organic pollutants.

For ground remediation, the applicant must sample at least three (3) wells in the contaminant plume area. If the recovery well is determined, it should be included in the three sampled wells.

Any additional sampling and analytical results available in the project should be attached.

Discharge limits applied are as follows: (1) Compatible pollutants (BOD, TSS, P, FOG), pH, Metals, PCBs and phenols as listed in the City of Detroit Ordinance 08-05 and (2) Toxic Organics at $20 \,\mu\text{g/L}$ (ppb). If the initial analysis shows unacceptable pollutant levels, then, pretreatment is required before discharging.

E. Acceptance Letter from Local Authority

This section applies only to sites located outside the City of Detroit. The applicant must secure a letter of acceptance from the local community serviced by the GLWA. The acceptance letter must express the local community's permission granting the applicant to discharge said wastewater and specify details of the discharge point. Some communities may also require a letter of approval from the county.

F. Fees

This section pertains to the applicable sewerage charges to be levied by the applicable local community (city, township, village etc.) on the actual volume of wastewater discharged into the sanitary sewer system and any fine imposed by The Great Lakes Water Authority for any violation of permit conditions, not to exceed five hundred dollars (\$500.00) per day per violation.

G. Certification Statement

The company's authorized representative responsible for the overall project operation must sign this section. The authorized representative shall refer to a corporate officer, a general partner, a proprietor; if the company is a corporation, a partnership, or a proprietorship respectively.

The Great Lakes Water Authority, as agent for the Detroit Water & Sewerage Department, will accept and evaluate applications for Special Wastewater Discharge Permit in accordance with Detroit's Policy 92-01 restated below.

POLICY NO. 92-01 DETROIT POLICY FOR SPECIAL WASTEWATER DISCHARGE

Wastes and wastewater generated and/or accumulated from groundwater, storm water, site remediation (not subjected to SARA and CERCLA), and other wastewater sources into the system in accordance with the following conditions.

- 1. The applicant for the special wastewater discharge shall not discharge any wastewater into the sewer system without a Special Discharge Permit.
- 2. The applicant shall apply for a Special Discharge Permit and satisfy the following requirements:
 - a. The background history of the site where the wastewater is accumulated and/or generated.
 - b. The characteristics of the wastewater including quality, quantity, flow rate, frequency, type and duration of the wastewater discharge.
 - c. A wastewater analysis based on the EPA Priority Pollutants conducted in accordance with the EPA 40 CFR 136.
 - d. An approval from the local authority granting the applicant an acceptance to discharge and specifying the discharge point.
 - e. A certification of the application by the owner of the site or an authorized representative of the company responsible for the overall project operation.
- 3. The maximum special wastewater discharge shall not exceed 100,000 gallons per day, based on a twenty-four (24) hour period. The discharge may be further limited by the carrying capacity of the sewer line discharged into.
- 4. The applicant shall install all wastewater pretreatment system necessary to comply with the discharge requirements.
- 5. The GLWA reserves the right to inspect the remediation and treatment facility before any discharges are made.
- 6. The GLWA shall issue the Special Discharge Permit only after the applicant complies with all the requirements.
- 7. The Special Discharge Permit shall contain the discharge limitations, monitoring requirements, reporting requirements, and other general conditions needed for compliance.
- 8. The applicant shall comply with all the established conditions and requirements as issued on the Special Discharge Permit. Failure to comply shall result in immediate permit revocation and appropriate enforcement action.

Organic Pollutants

Purgeable Compounds	Limit	Extractable Compounds	Limit
1,1,1-Trichloroethane	20 ppb	Alpha-BHC	20 ppb
1,1,2,2-Tetrachloroethane	20 ppb	Alpha-Endosulfan or (Endosulfan I)	20 ppb
1,1,2-Trichloroethane	20 ppb	Anthracene	20 ppb
1,1-Dichloroethane	20 ppb	Benzidine	20 ppb
1,1-Dichloroethylene	20 ppb	Benzo (a) Anthracene or (1,2-Benzanthracene)	20 ppb
1,2-Dichlorobenzene	20 ppb	Benzo (a) Pyrene or (3,4-Benzopyrene)	20 ppb
1,2-Dichloroethane	20 ppb	Benzo (b) Fluoranthene or (3,4-Benzofluoranthene)	20 ppb
1,2-Dichloropropane	20 ppb	Benzo (ghi) Perylene or (1,12-Benzoperylene)	20 ppb
1,3-Dichloropropylene or (1,3-Dichloropropene)	20 ppb	Benzo (k) Fluoranthene or (11,12-Benzofluoranthene)	20 ppb
1,2-Trans-Dichloroethylene or (Trans-1,2-Dichloroethene)	20 ppb	Beta-BHC	20 ppb
1,3-Dichlorobenzene	20 ppb	Beta-Endosulfan or (Endosulfan II)	20 ppb
1,4-Dichlorobenzene	20 ppb	Bis (2-Chloroethoxy) Methane	20 ppb
2-Chloroethylvinyl Ether	20 ppb	Bis (2-Chloroethyl) Ether	20 ppb
Acrolein	20 ppb	Bis (2-Chloroisopropyl) Ether	20 ppb
Acrylonitrile	20 ppb	Bis (2-Ethylhexyl) Phthalate	20 ppb
Benzene	20 ppb	Butyl benzyl phthalate or (Benzyl butyl phthalate)	20 ppb
Bromoform or (Tribromomethane)	20 ppb	Chlordane	20 ppb
Carbon Tetrachloride or (Tetrachloromethane)	20 ppb	Chrysene	20 ppb
Chlorobenzene	20 ppb	Delta-BHC	20 ppb
Chlorodibromomethane or (Dibromochloromethane)	20 ppb	Dibenzo (a,h) Anthracene or (1,2,5,6- Dibenzanthracene)	20 ppb
Chloroethane	20 ppb	Dieldrin	20 ppb
Chloroform or (Trichloromethane)	20 ppb	Diethyl Phthalate	20 ppb 20 ppb
Dichlorobromomethane or (Bromodichloromethane)		Dimethyl Phthalate	20 ppb 20 ppb
Ethylbenzene	20 ppb 20 ppb	Di-N-Butyl Phthalate	20 ppb 20 ppb
Methyl Bromide or (Bromomethane)		Di-N-Octyl Phthalate	20 ppb 20 ppb
Methyl Chloride or (Chloromethane)	20 ppb	Endosulfan sulfate	
,	20 ppb		20 ppb
Methylene Chloride or (Dichloromethane) Tetrachloroethylene or (Tetrachloroethene)	20 ppb	Endrin Aldebyde	20 ppb
Toluene	20 ppb	Endrin Aldehyde Fluoranthene	20 ppb
	20 ppb	Fluorantnene	20 ppb
Trichloroethylene or (Trichloroethene)	20 ppb		20 ppb
Vilor c	20 ppb	Gamma-BHC	20 ppb
Xylene Sylventeble Common de	20 ppb	Heptachlor	20 ppb
Extractable Compounds	Limit	Heptachlor Epoxide or (BHC-Hexachlorocyclohexane)	20 ppb
1,2,4-Trichlorobenzene	20 ppb	Hexachlorobenzene	20 ppb
1,2-Diphenylhydrazine	20 ppb	Hexachlorobutadiene	20 ppb
2,3,7,8-Tetrachlorodibenzo-p-Dioxin	20 ppb	Hexachlorocyclopentadiene	20 ppb
2,4,6-Trichlorophenol	20 ppb	Hexachloroethane	20 ppb
2,4-Dichlorophenol	20 ppb	Indeno (1,2,3-cd) Pyrene or (2,3-o-Phenylene Pyrene)	20 ppb
2,4-Dimethylphenol	20 ppb	Isophorone	20 ppb
2,4-Dinitrophenol	20 ppb	Naphthalene	20 ppb
2,4-Dinitrotoluene	20 ppb	Nitrobenzene	20 ppb
2,6-Dinitrotoluene	20 ppb	N-Nitrosodimethylamine	20 ppb
2-Chloronapthalene	20 ppb	N-Nitrosodi-N-Propylamine	20 ppb
2-Chlorophenol	20 ppb	N-Nitrosodiphenylamine	20 ppb
2-Nitrophenol	20 ppb	PCB-1016 or (Arochlor 1016)	Non-detect*
3,3-Dichlorobenzidine	20 ppb	PCB-1221 or (Arochlor 1221)	Non-detect*
4,4-DDD or (p,p-TDE)	20 ppb	PCB-1232 or (Arochlor 1232)	Non-detect*
4,4-DDE or (p,p-DDX)	20 ppb	PCB-1242 or (Arochlor 1242)	Non-detect*
4,4-DDT	20 ppb	PCB-1248 or (Arochlor 1248)	Non-detect*
4,6-Dinitro-o-Cresol	20 ppb	PCB-1254 or (Arochlor 1254)	Non-detect*
4-Bromophenyl Phenyl Ether	20 ppb	PCB-1260 or (Arochlor 1260)	Non-detect*
4-chloro-3-methyl phenol or (p-Chloro-m-Cresol)	20 ppb	Pentachlorophenol	20 ppb
4-Chlorophenyl Phenyl Ether	20 ppb	Phenanthrene	20 ppb
4-Nitrophenol	20 ppb	Phenol	20 ppb
Acenaphthene	20 ppb	Pyrene	20 ppb
Acenaphthylene	20 ppb	Toxaphene	20 ppb
Aldrin	20 ppb		
<u>L</u>		1	

 $^{^{\}star}$ Quantification level shall not exceed 0.2 ug/L based on U.S.EPA method 608

Specific Pollutant Prohibitions

Compatible Pollutants		Limit (mg/L)
Fats, Oil or Grease	FOG	1500.0
Total Suspended Solids	TSS	7500.0
Biochemical Oxygen Demand	BOD	7500.0
Phosphorus	Р	250.0
Non-Compatible Pollutan	ts	Limit (mg/L)
Acidity/Alkalinity (pH)	рН	5.0 - 11.5 Units
Arsenic	As	1.0
Cadmium	Cd	1.0
Chromium	Cr	25.0
Copper	Cu	2.5
Cyanide (Available)	AVCN	1.0
Iron	Fe	1000.0
Lead	Pb	1.0
Mercury	Hg	Non-detect**
Nickel	Ni	5.0
Silver	Ag	1.0
Total PCB	PCB	Non-detect*
Total Phenolic Compounds	PHENOL	1.0
Zinc	Zn	7.3

Quantification level shall not exceed 0.2 ug/L based on U.S.EPA method 608
 Quantification level shall not exceed 0.2 ug/L based on U.S.EPA method 245.1

Per- and Poly- fluoroalkyl Substances (PFAS)

PFAS Pollutants				
Perfluorobutanoic acid	PFBA			
Perfluoropentanoic acid	PFPeA			
Perfluorohexanoic acid	PFHxA			
Perfluoroheptanoic acid	PFHpA			
Perfluorooctanoic acid	PFOA			
Perfluorononanoic acid	PFNA			
Perfluorodecanoic acid	PFDA			
Perfluoroundecanoic acid	PFUnDA			
Perfluorododecanoic acid	PFDoDA			
Perfluorotridecanoic acid	PFTrDA			
Perfluorotetradecanoic acid	PFTeDA			
Perfluorobutane Sulfonic acid	PFBS			
Perfluoropentane Sulfonic acid	PFPeS			
Perfluorohexane Sulfonic acid	PFHxS			
Perfluoroheptane Sulfonic acid	PFHpS			
Perfluorooctane Sulfonic acid	PFOS			
Perfluorononane Sulfonic acid	PFNS			
Perfluorodecane Sulfonic acid	PFDS			
Perfluorooctane sulfonamide	FOSA			
4:2 Fluorotelomer sulfonic acid	4:2 FTSA			
6:2 Fluorotelomer sulfonic acid	6:2 FTSA			
8:2 Fluorotelomer sulfonic acid	8:2 FTSA			
N-Ethyl perfluorooctane sulfonamidoacetic acid	EtFOSAA			
N-Methyl perfluorooctane sulfonamide	N-MeFOSA			

Analytical Requirement: USEPA Method 537 (modified) or ASTM D7979

Non-Residential/Commercial Establishments

Mark	Sources/Business Type	Comments
O	Accounting Services	Auditing. Bookkeeping, CPA
0	Agencies	Booking, Entertainment, Personnel
0	Amusement and Recreation	Art galleries, Bowling alleys, Entertainment bazaar, Game rooms, Parks, Theater
	Amasement and Necreation	Apartments, Bed & Breakfast, Condominium, Community houses, Cottages, Hotels,
0	Accommodation Places	Inns, Motels
\circ	Appraisers	Automobile, Real estate
0	Athletic Fields	Arena, Stadium
0	Bank Institution	Credit Union, Financial Institution, Mortgage, Savings & Loans
\circ	Broadcasting	Radio & Television stations
0	Business & Office	Advertising, Architect, Attorney, Brokers, Computer, Consultant, Contractor, Counselling, Data processing, Detective agency, Employment & Placement agency, Engineering, Financial, Furniture, Insurance, Investment, Leasing, Legal service, Locksmith, Marketing, Notary Public, Post Office, Real Estate, Security System (Burglar alarm, Detection devices), Trailer office, Underwriter
0	Cable Company	
0	Clinics	Dental, Medical, Optical, Orthopedic, Podiatry, Veterinary
0	Clubs	BAR, Cocktail lounge, Night club, Tavern
0	Contractors	Air Conditioning, Electrical, Home/Office building & improvement, Landscape, Plumbing, Waterproofing
0	Correctional Facilities	Jails, Prison, Juvenile detention, Reformatory
0	Child Care	Nursery, Montessori, Daycare center
0	Dealership	Boat, Motorcycle (except Automobile), Recreational vehicle
0	Distributors	
0	Educational Institutions	Academy, Adult, Bartender, Computer, Cosmetology, Elementary, High School, college, University, Training Center
0	Food Service	Bakery (Retail), Cafeteria, Carry-Out, Catering, Dine-in, Fast food, Restaurant
0	Funeral home	
0	Glass Replacement Shop	
0	Government Offices	
0	Halls	Ballroom, Banquet, Charitable, Social
0	Movers	Moving company, Rental truck
0	Nursing Home	Convalescent home
0	Personal Services	Barber shop, Beauty salon, Escort service, Massage parlor, Tanning salon
0	Physical fitness	Aerobic/Fitness center, Health club, Gym
\circ	Post Office	
\circ	Print Shop	Quick print shop
\circ	Religious Establishment	Church, Convent, Seminary
0	Stores	Antique, apparel, Agricultural, Appliance, Aquarium supply, Artist, Audio, Boutique, Carpet, Craft, Communication (Beeper, Cellular, Paging, Signaling), Convenience (Party), Cosmetic, Department, Drug, electrical, Electronic, factory Outlet, Florist, Furniture, Grocery, Hardware, Health, Hobby, Home furnishing, Industrial sale, Instrumental, Jewelry, Landscaping, Lighting fixture, Mall, Nursery (Plants, TreesO, Optical, Paint, Perfumery, Pet shop, Photography, Plumbing, Religious, Sporting good, Supermarket, Toys, Video, Wholesale trade, Yard supply
0	Towing services	
0	Trailer Park Properties	
0	Travel Agencies	Airline, Cruise
0	Vending Companies	
0	Warehouses	Non-chemicals
\circ	Woodshops	





Wastewater Operating Services

Industrial Waste Control, Analytical &
Operations Laboratories
9300 West Jefferson
Detroit. MI 48209

User Guidance Information	GLWA PFAS Inquiry Guidance for Identifying Potential								
	Significant Sources of PFAS Compounds								
Version: 2019 -10_1	Effective Date: July 1, 2019 Pages: 2								
Authorization Signature	Alaban Shalas.								

Objectives & Scope

This guidance has been prepared to assist staff in the evaluation of information received in a Survey form, Permit Application or Special Discharge Permit Application in applying responses to questions about past, present or future uses of PFAS compounds. This information is provided for guidance purposes only and addresses the general case. Specific facts about an individual User may result in a different result.

Discussion

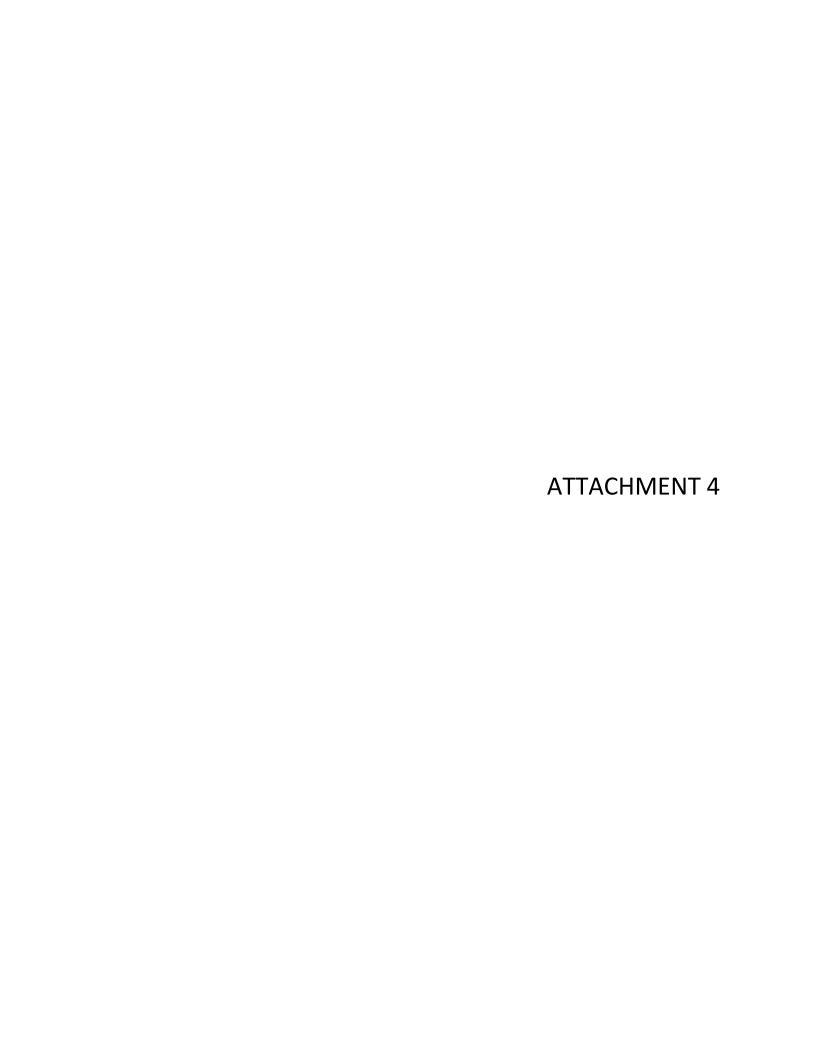
PFAS compounds refers to per- and poly-fluoroalkyl substances, a group of chemicals that have been used in a wide range of applications since the 1940s. The man-made chemicals are/were used in firefighting, stain resistance, water repellants, and other industrial applications.

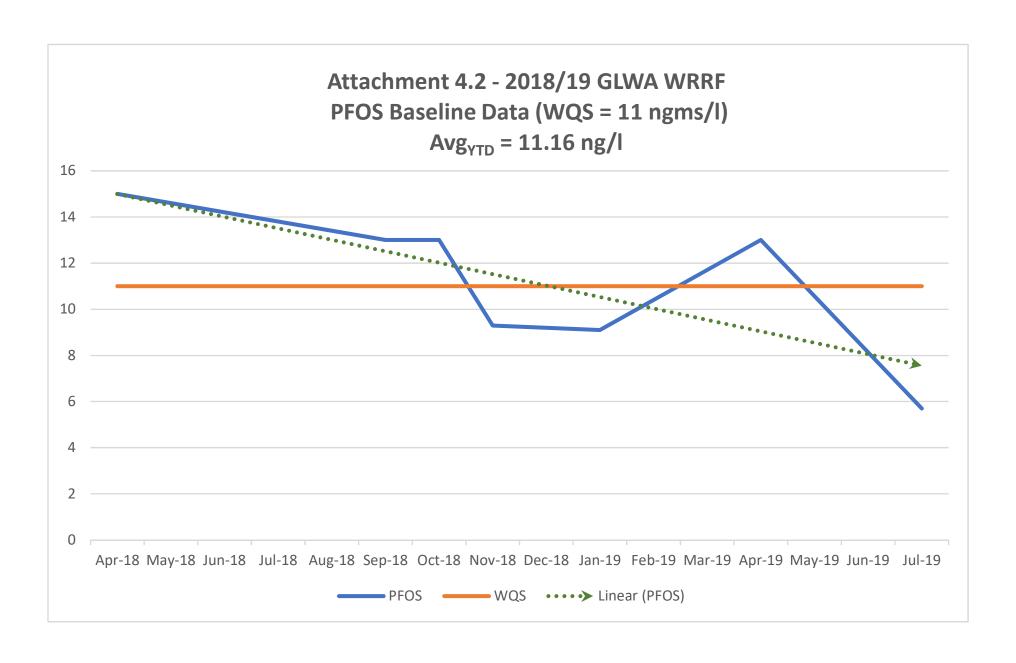
As a result of the numerous industrial applications for PFAS, it is not possible to provide a complete listing of all applications or activities likely to have PFAS contamination. However, the list below is intended to provide guidance when monitoring is required to evaluate the potential contributions of PFAS. As new information becomes available, this list may be amended.

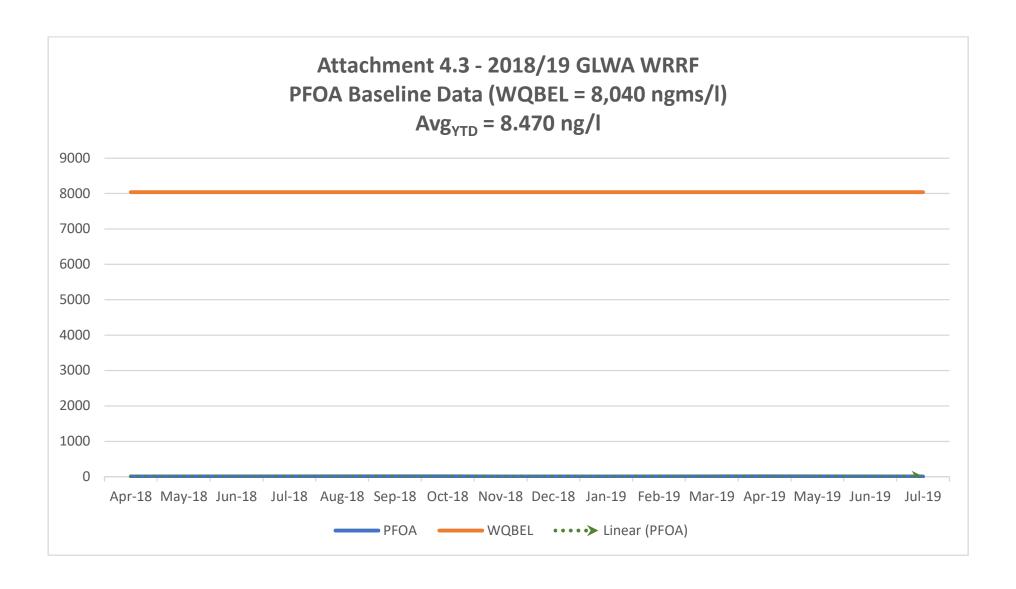
Industrial Proc	esses	
Electroplating and Metal-finishing	See 40 CR 413 and 433	Eg. Chrome plating;
Processes		Chromating
Paint Formulating	See 40 CFR 446	
Transportation Equipment Cleaning	See 40 CFR 442	
Landfills	All types	
Centralized Waste Treatment	See 40 CFR 437	
Leather Tanning & Processing		
Industrial & Commercial Laundries		
Chemical Manufacturing		
Paper & Cardboard		
Textiles		
Application	s	
Fire-fighting Materials		Airfields; Refineries;
Fire Department Foam Response	_	

Photo lithography; Photographic		
Coatings		
Groundwate	er	
Any sites performing aforementioned		
Industrial Processes or applications		
Aviation fuels & storage		
Other fuel (UST/AST)		See Note #4 Below

- 1. At a minimum, all applications for survey or permit (all types) must answer questions above past, present or future usages of PFAS. If incomplete, staff should follow-up with the applicant to secure the additional information and document the response for the User file.
- 2. Any facility or operation involving any of the above, or where such activities were formerly performed <u>must</u> include analysis for PFAS compounds with their application or reapplication. NOTE: Where a User provides a Baseline Monitoring Report in lieu of a GLWA Permit Application, staff should follow-up with the applicant to secure the additional information and document the response for the User file.
- 3. Groundwater projects with a 12 months or greater history <u>must</u> include an analysis for PFAS compounds.
- 4. Facilities who do not correspond to either (2) or (3) above, may require monitoring if: (a) PFAS usage is suspected; (b) there is either a known PFAS history of past, current or future usage; (c) other reason (must be identified and documented by staff).









		Attachment 5: Significant Sources evaluated and Ide	entified for PFOS/PFOA by	/ GLWA - 2018/1	19												
Report_month	User#	Facility Name	Facility Address	City	County	Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Significant Sources
														420	11		
																Probable	
0	1	3M Company	11900 E. 8 Mile Road	Detroit	Wayne	48205	3291	327910	SIU	SIU	15,585	Continuous	8/20/2018	ND	<9.28	Significant Source	Yes
D	2	A. G. Simpson (USA), Inc.	6640 Sterling Drive South	Sterling Heights	Macomb	48312	3471/3479	332813	CIU	433.A.15(a) (PSES) Metal Finishing	31,000.00	Continuous	10/22/2018	ND	350	Significant Source	Yes
0	6	Advanced Resource Recovery, L.L.C.	27140 Princeton Avenue	Inkster	Wayne	48141	5093	562219	CIU	437.D.46b (PSES) Centralized Waste Treatment	96,551	Batch	4/18/2018	290	ND (<23ng/l)	Significant Source	Yes
D	8	Aevitas Specialty Services Corp.	663 Lycaste Street	Detroit	Wayne	48214	5093	562219	CIU	437.B.26 (PSNS) Centralized Waste Treatment	53,000	Batch	10/15/2018	10	70	Significant Source	Yes
0	15	Arted Chrome Plating Inc.	38 Piquette Street	Detroit	Wayne	48202	3471	332813		413.14 A(d) (PSES) Electroplating <10,000 gpd	6,124	Continuous	8/8/2018	<1.9	69	Significant Source	Yes
N	16	A-W Custom Chrome, Inc.	17726 E. 9 Mile Road	East Pointe	Macomb	48021	3471	332813	CIU	413.A.14(b)(f) (PSES) Electroplating Discharging	630	Continuous	9/26/2018	ND	180	Significant Source	Yes
5	10	Decem Deal, Finishing LLC (Howard Finishing December)	15765 Churana	Dago: illa	Massash	40000	3471	222042	CILL	<10,000 gpd 413.A.14(c)(g), 413.E.54(c)(g)	71 000 00	Cantinuaus	10/22/2010	ND	35.00	Significant	Van
D	18	Beacon Park Finishing, LLC (Howard Finishing Roseville)	15765 Sturgeon	Roseville	Macomb	48066	34/1	332813	CIU	(PSES) Electroplating Discharging >10,000 gpd 433.A.17a (PSNS) Metal	71,900.00	Continuous	10/22/2018	ND	2560	Source Significant	Yes
D	24	Chor Industries Inc.	500 Robbins	Troy	Oakland	48083	3479	332812	CIU	Finishing	12,303.00	Continuous	10/30/2018	ND	250	Source Significant	Yes
0	25	Cintas Corporation - Westland	39145 Webb Drive	Westland	Wayne	48185	7218	812332	SIU	SIU	71,183	Continuous	9/11/2018	ND	40	Source Significant	Yes
N	26	City of Livonia - Type III Landfill	32500 Glendale Road	Livonia	Wayne	48150	4953	562212	SIU	SIU	16,000	Continuous	10/15/2018	50	100	Source Significant	Yes
N	27	City of Pontiac	575 Collier Road	Pontiac	Oakland	48340	4953	562212	SIU	SIU	97,000	Continuous	10/5/2018	75	15	Source	Yes
N	28	Color Coat Plating Company	355 W. Girard	Madison Heights	Oakland	48071	3471	332813	CIU	433.A.17a (PSNS) Metal Finishing	1,139	Batch	9/26/2018	ND	230	Significant Source	Yes
D	29	Controlled Power Company	1955 Stephenson Highway	Troy	Oakland	48083	3479/3612	335311	CIU	433.A.17a (PSNS) Metal Finishing 442.A.15a (PSES)	551.00	Batch	10/30/2018	ND	20	Significant Source	Yes
0	32	Dana Container, Inc. Tank Cleaning Division	1551 Caniff Street	Detroit	Wayne	48211	7999	562991	CIU	Transportation Equipment Cleaning	12,950	Batch	9/10/2018	280	140	Significant Source	Yes
0	37	Detroit Chrome Electro Forming Co.	7515 Lyndon	Detroit	Wayne	48238	3471	332813	CIU	413.14 A(b) (PSES) Electroplating <10,000 gpd	2,180	Batch	9/25/2018	ND	9750	Significant Source	Yes
N	38	Detroit Diesel Corporation	13400 W. Outer Drive	Detroit	Wayne	48239-1309	3471	332813/333618	SIU	SIU	117,400	Continuous	9/28/2018	5.3	11	Significant Source	Yes
J	39	Detroit Metropolitan Wayne County Airport	One L. C. Smith Terminal - Mezzanine	Detroit	wayne	48242	4581			SIU	700,000	Continuous	12/18/2019	140	220	Significant Source	Yes
0	42	Disposal and Recycling Technologies, Inc.	8647 Lyndon	Detroit	Wayne	48238	4953	562219	CIU	437.D.47e (PSNS) Centralized Waste Treatment	250,300	Continuous	9/11/2018	1790	530	Significant Source	Yes
0	43	Domestic Uniform Rental	3800 18th Street	Detroit	Wayne	48208	7218	812332	SIU	SIU	64,276	Continuous	9/10/2018	20	50	Significant Source	Yes
0	50	EQ Detroit dba US Ecology	1923 Frederick Street	Detroit	Wayne	48211	4953	562211/562219	CIU	437.D.46b.1 (PSES) Centralized Waste Treatment AND 437.C.35 (PSES) Centralized Waste	155,702	Batch	9/11/2018	60	650	Significant Source	Yes
N	51	EQ Resource Recovery Inc.	36345 Van Born Road	Romulus	Wayne	48174-4057	4953/5093	562211/562219	CIU	Treatment 437.C.35 (PSES) Centralized	129,358	Continuous	10/15/2018	130	240	Significant	Yes
	57	Ford Motor Company - Allen Park Clay Mine Landfill	17005 Oakwood Blvd.	Allen Park	Wayne	MI	48101	4953	562212	Waste Treatment SIU	35,020	Continuous	2/20/2019	50	160	Source Significant	Yes
N	59	Ford Motor Company - Dearborn Truck Plant	3001 Miller Road	Dearborn	Wayne	48121	3711/3479/3	336112/332812/336399	CIU	433.A.15(a) (PSES) Metal	534,878	Batch	10/15/2018	30	50	Source Significant	Yes
N	64	G2O Energy, LLC	8750 Grinnell	Detroit	Wayne	48213	465/3714 4953	562219/562119	SIU	Finishing			10/15/2018	ND	10	Source Significant Source	Yes

		Attachment 5: Significant Sources evaluated and Ide	ntified for PFOS/PFOA by	/ GLWA - 2018/	19												Ş
Report_month	User#	Facility Name	Facility Address	City	County	Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Significant Source
														420	11	5 J JJ-	
0	66	General Motors Company	2500 East General Motors Boulevard	Detroit	Wayne	48211	3711	336111	CIU	433.A.17a (PSNS) Metal Finishing	488,199	Batch	8/13/2018	ND	ND	Probable Significant Source	Yes
D	67	General Motors LLC., Orion Assembly	4555 Giddings Road	Lake Orion	Oakland	48359	3711		CIU	433.A.15a (PSES) Metal Finishing	293,736.00	Continuous	11/1/2018	ND	30	Significant Source	Yes
0	70	Hajjar Plating Services, Inc.	38300 Van Born Rd.	Wayne	Wayne	48184	3471	332813	CIU	413.14 A(b&f) (PSES) Electroplating <10,000 gpd	1,400	Continuous	8/8/2018	ND	370	Significant Source	Yes
0	80	International Hardcoat Inc.	12400 Burt Road	Detroit	Wayne	48228	3471	332813	CIU	433.A.17a (PSNS) Metal Finishing	60,000	Continuous	9/11/2018	ND	20	Significant Source	Yes
0		Lear Corporation dba Eagle Ottawa								425.D.46 (PSNS) Leather Tanning and Finishing			9/21/2018	43	14	Significant Source	Yes
0	84	MacDermid, Inc.	1221 Farrow Avenue	Ferndale	Oakland	48220	2899	325998	CIU	433.A.15a (PSES) Metal Finishing	17,119	Batch	8/27/2018	28	840	Significant Source	Yes
0	85	Marathon Petroleum Company, LP	1300 S. Fort Street	Detroit	Wayne	48217	2911/5171	324110/424710	CIU	419.B.25 (PSES) and 419.B.27a Petroleum Refining	1,718,849	Continuous	6/27/2018	30	360	Significant Source	Yes
0	86	McGean-Rohco, Inc.	38521 Schoolcraft Road	Livonia	Wayne	48150	2842	325612	SIU	SIU	4,600	Continuous	9/11/2018	120	310	Significant Source	Yes
0	94	Oakland Heights Development, Inc.	2350 Brown Rd	Auburn Hills	Oakland		4953	562212	SIU		30,097	Continuous	9/12/2018	840	700	Significant Source	Yes
	96	Pine Tree Acres, Inc.	36600 29 Mile Road	Lenox Township	Macomb	48048	4953	562212	SIU	Landfill	161,215.0	Continuous	11/20/2018	1800	430	Significant Source	Yes
D	99	PSB Credit Services, Inc.	561 Collier Rd.	Auburn Hills	Oakland	48326	4953		SIU	SIU	32,000.00	Continuous	11/28/2018	200	160	Significant Source	Yes
0	101	Racer Trust (Groundwater)	13000 Eckles Road	Livonia	Wayne					Groundwater	726,850	Continuous	5/24/2018	5	86	Significant Source	Yes
D	103	Richcoat, L.L.C.	40573 Brentwood	Sterling Heights	Macomb	48310	3471	332813	CIU	433.A.17(a) (PSNS) Metal Finishing	12,900.00	Continuous	10/22/2018	ND	30	Significant Source	Yes
D	105	RJL Equity Holdings, LLC	4430 Lapeer Road	Auburn Hills	Oakland	48326	4953		SIU	SIU	6,000.00	Continuous	11/2/2018	ND	20	Significant Source	Yes
0	109	Selfridge Air National Guard Base	127 WG/CE 28890 Selfridge Avenue	Selfridge ANGB	Macomb	48045	9999		SIU	SIU 433.A.17(a) (PSNS) IMETAI Finishing 413.A.14(c)(g), 413.D.44(c)(g),	153,264	Continuous	5/15/2018	21	240	Significant Source	Yes
0	110	Selfridge Plating, Inc.	42081 Irwin Road	Harrison Twsp.	Macomb	48045	3471	332813	CIU	413.E.54(c)(g); (PSES); Electroplating Discharging >10,000 gpd 433.A.17(a) (PSNS) Metal Finishing	17,617	Continuous	9/17/2018	ND	30	Significant Source	Yes
D	112	South Macomb Disposal Authority	21290 - 24 Mile Road	Macomb	Macomb	48042	4953	562212	SIU	SIU	69,928.00	Continuous	10/25/2018	30	20	Significant Source	Yes
D	113	Southeastern Oakland County Resource Recovery Authority	1741 School Rd.	Rochester Hills	Oakland	48309	4953		SIU	SIU	37,400.00	Continuous	11/28/2018	30	40	Significant Source	Yes
N	127	US Ecology Michigan, Inc.	6520 Georgia Street	Detroit	Wayne	48211-1661	4953	562211	CIU	437.D.46b.1 (PSES) Centralized Waste Treatment	75,000	Batch	10/15/2018	ND	30	Significant Source	Yes
0	128	Usher Oil Company	9000 Roselawn Street	Detroit	Wayne	48204	5093	562219	CIU	437.D.46e (PSES) Centralized Waste Treatment	340,000	Batch	9/11/2018	40	120	Significant Source	Yes
M	129	Waste Management of MI, IncEagle Valley Recycle & Disposal	600 W. Silverbell Road	Orion	Oakland	48359	4953		SIU	Landfill	29,537	Continuous	11/20/2018		170	Significant Source	Yes

		Attachment 5: Significant Sources evaluated and Ide	ntified for PFOS/PFOA by	GLWA - 2018/1	.9												
Report_month	User #	Facility Name	Facility Address	City	County	Zip Code	SIU/CIU SIC Code(s) or NAICS Code(s)	SIU/CIU SIC/NAICS Primary Code Indicator	Industrial User Type (SIU/CIU)	For CIUs, list all applicable Categories by 40 CFR Part Number(s)	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Significant Sources
•														420	11		
М	131	Waste Management of MI, IncWoodland Meadows RDF-Van Buren	5900 Hannan Road	Wayne	Wayne	48184	4953	562212	SIU	Landfill	36,025	Continuous	11/20/2018	2000	510	Significant Source	Yes
0	132	Waterford Hills Landfill/MDEQ, RRD	7900 Gale Road	Waterford	Oakland	49201	4953		SIU	SIU	2,000	Continuous	8/2/2018	680	130	Significant Source	Yes
0	136	Wolverine Plating Corporation	29456 Groesbeck Highway	Roseville	Macomb	48066	3471	332813	CIU	413.A.14c (PSES) Electroplating	114,150	Continuous	9/10/2018	ND	60	Significant Source	Yes
N	140	Z Technologies Corporation	26500 Capitol Avenue	Redford Township	Wayne	48239-2506	2891	325520	CIU	446.16a (PSNS) Paint Formulating	510	Continuous	10/15/2018	20	60	Significant Source	Yes
J, F	141	MDOT - Parcel 5348	330/340 Livernois	Detroit	Wayne	48209	N/A			Groundwater	320,000.00	Continuous	1/18/2019	29	14	Significant Source	Yes

	ATTACHMENT 6

Industry Number	Industry Name	Sample Number	Industry No	Sample Date	PFOS (ng/l)	PFOA (ng/l)
1	561 Collier, Inc. (PSB Credit Services)	S05093.02	96731	7/22/2019	220	230.00
2	A. G. Simpson (USA) Inc.	S02150.01	92724	5/13/2019	1300	ND
	A. G. Simpson (USA) Inc.	92724-011119-01	92724	1/11/2019	58.2	1.87
3	Advanced Disposal Services Solid Waste Midwest, Inc.	S00378.01	27555	3/25/2019	170	49
4	Aevitas Specialty Services Corp.	IU_05072019	94645	5/7/2019	2300	47 170
5	Aevitas Specialty Services Corp. Arted Chrome Plating Inc.	S01894.11 S03350.01	94645 27589	5/7/2019 6/11/2019	8400 ND	170 ND
6	A-W Custom Chrome, Inc.	S02434.02	27353	5/20/2019	230	ND
	A-W Custom Chrome, Inc.	27254-050219-01	27254	5/2/2019	<10	<10
	A-W Custom Chrome, Inc.	27254-050819-01	27254	5/8/2019	43	<11
	A-W Custom Chrome, Inc.	27254-051619-01	27254	5/16/2019	<9.7	<9.7
7	Beacon Park Finishing, LLC	S02150.07	97177	5/14/2019	21	ND
	Beacon Park Finishing, LLC	97177-051019-01	97177	5/10/2019	<9.6	<9.6
	Beacon Park Finishing, LLC	97177-051719-01	97177	5/17/2019	<9.8	<9.8
	Beacon Park Finishing, LLC Beacon Park Finishing, LLC	97177-052319-01 97177-060719-01	97177 97177	5/23/2019 6/7/2019	<10 <9.7	<10 <9.7
	Beacon Park Finishing, LLC	97177-061419-01	97177	6/14/2019	<9.7 <9.5	<9.7 <9.5
	Beacon Park Finishing, LLC	97177-062819-01	97177	6/28/2019	<9.9	<9.9
	Beacon Park Finishing, LLC	97177-071019-01	97177	7/10/2019	<9.6	<9.6
8	Chor Industries Inc.	S01894.05	27566	5/6/2019	27	ND
9	Cintas Corporation - Westland	\$02150.02	27522	5/13/2019	35	36
	Cintas Corporation - Westland	IU-20190417 PFAS	27522	4/17/2019	<13	<9.6
	Cintas Corporation - Westland	IU-20190418 PFAS	27522	4/18/2019	<9.3	11
	Cintas Corporation - Westland	IU-20190419 PFAS	27522	4/19/2019	<25	11
	Cintas Corporation - Westland	IU-20190422 PFAS	27522	4/22/2019	<20	11
10	Cintas Corporation - Westland City of Livonia - Type III Landfill	IU-20190423 PFAS S01894.01	27522 27487	4/23/2019 5/6/2019	<17 33	11 26
11	City of Pontiac	S05093.01	93175	7/22/2019	27	58
12	Clean Earth of Michigan, LLC.	S01303.01	91572	4/25/2019	7100	1200
	Clean Earth of Michigan, LLC.	IU_05082019	91572	5/8/2019	65	400
	Clean Earth of Michigan, LLC.	IU_05152019	91572	5/15/2019	110	430
	Clean Earth of Michigan, LLC.	IU_05222019	91572	5/22/2019	130	300
	Clean Earth of Michigan, LLC.	S02611.02	91572	5/28/2019	900	1600
	Clean Earth of Michigan, LLC.	IU_05292019	91572	5/29/2019	97	430
	Clean Earth of Michigan, LLC.	IU_06052019	91572	6/5/2019	250 67	480 330
	Clean Earth of Michigan, LLC. Clean Earth of Michigan, LLC.	IU_06122019 IU_06262019	91572 91572	6/12/2019 6/26/2019	67 83	700
	Clean Earth of Michigan, LLC.	IU_07092019	91572	7/9/2019	180	100
	Clean Earth of Michigan, LLC.	IU_07242019	91572	7/24/2019	320	690
	Clean Earth of Michigan, LLC.	IU_08082019	91572	8/8/2019	81	660
13	Closed Waterford Hills Landfill/MDEQ, RRD	S01589.01	27572	4/29/2019	12	58
14	Color Coat Plating Company	S01894.04	27739	5/6/2019	25	ND
	Color Coat Plating Company	IU-20190531 PFAS	27739	5/31/2019	ND	ND
15	Dana Container, Inc. Tank Cleaning Division	S01894.08	27353	5/6/2019	640	210
16	Detroit Chrome, Inc. dba DCI Aerotech	S02434.05	27434	5/20/2019	19000	ND
	Detroit Chrome, Inc. dba DCI Aerotech Detroit Chrome, Inc. dba DCI Aerotech	IU-05232019 IU-06072019	27434 27434	5/23/2019 6/7/2019	ND ND	ND ND
	Detroit Chrome, Inc. dba DCI Aerotech	IU-06142019	27434	6/14/2019	ND	ND
	Detroit Chrome, Inc. dba DCI Aerotech	IU-07032019	27434	7/3/2019	140	ND
	Detroit Chrome, Inc. dba DCI Aerotech	IU-07102019	27434	7/10/2019	700	ND
17	Detroit Diesel Corporation	S02611.03	27435	5/28/2019	49	26
18	Domestic Uniform Rental	S01894.06	27584	5/6/2019	51	13
	Domestic Uniform Rental	IU_20190510PFAS	27584	5/10/2019	46	61
19	EnviroSolida, L.L.C.	IU-01082019	94075	1/8/2019	64	170
	EnviroSolids, L.L.C. EnviroSolids, L.L.C.	IU-02122019 IU-03012019	94075 94075	2/12/2019 3/1/2019	39 42	110 120
	EnviroSolids, L.L.C.	IU-04022019	94075	4/2/2019	33	100
	EnviroSolids, L.L.C.	IU-05022019	94075	5/2/2019	36	110
	EnviroSolids, L.L.C.	IU-05072019	94075	5/7/2019	31	70
	EnviroSolids, L.L.C.	IU-05132019	94075	5/13/2019	24	94
	EnviroSolids, L.L.C.	IU-05242019	94075	5/24/2019	30	76
	EnviroSolids, L.L.C.	IU-05312019	94075	5/31/2019	24	83
	EnviroSolids, L.L.C.	IU-06042019	94075	6/4/2019	29	80
	EnviroSolida, L.L.C.	S03350.02	94075	6/11/2019	120	320
	EnviroSolids, L.L.C.	IU-06112019	94075 94075	6/11/2019 6/18/2019	27 25	76 69
20	EnviroSolids, L.L.C. EQ Detroit dba US Ecology	IU-06182019 IU-05032019	94075 91964	6/18/2019 5/3/2019	25 250	69 42
20	EQ Detroit dba US Ecology EQ Detroit dba US Ecology	S01894.12	91964	5/7/2019	200	330
	EQ Detroit dba US Ecology	IU-05152019	91964	5/10/2019	80	79
	EQ Detroit dba US Ecology	IU-05182019	91964	5/18/2019	100	110

Industry Number	Industry Name	Sample Number	Industry No	Sample Date	PFOS (ng/l)	PFOA (ng/l)
	EQ Detroit dba US Ecology	IU-05242019	91964	5/24/2019	310	240
	EQ Detroit dba US Ecology	IU-05312019	91964	5/31/2019	130	120
	EQ Detroit dba US Ecology	IU-06072019	91964	6/7/2019	92	180
	EQ Detroit dba US Ecology	IU-06142019	91964	6/14/2019	110	20
	EQ Detroit dba US Ecology	IU-06212019	91964	6/21/2019	83	53
	EQ Detroit dba US Ecology	IU-07022019	91964	7/2/2019	200	91
	EQ Detroit dba US Ecology	IU-07152019	91964	7/15/2019	220	310
21	EQ Detroit dba US Ecology Ford Motor Company Allon Park Clay Mine Landfill	IU-07192019 1823580	91964 27416	7/19/2019 3/27/2019	28 150	29 34
21	Ford Motor Company - Allen Park Clay Mine Landfill Ford Motor Company - Allen Park Clay Mine Landfill	S01894.03	27416	5/6/2019	ND	ND
22	Ford Motor Company - Dearborn Truck Plant	S01894.09	27417	5/7/2019	230	27
	Ford Motor Company - Dearborn Truck Plant	27417-020419-01	27417	2/4/2019	1.7	1.7
	Ford Motor Company - Dearborn Truck Plant	27417-022019-01	27417	2/20/2019	1.9	1.9
	Ford Motor Company - Dearborn Truck Plant	IU_2019Feb21	27417	2/21/2019	8.9	4.4
	Ford Motor Company - Dearborn Truck Plant	27417-040919-01	27417	4/9/2019	3.7	6.5
	Ford Motor Company - Dearborn Truck Plant	27417-051419-01	27417	5/14/2019	1.2	3
	Ford Motor Company - Dearborn Truck Plant	27417-060419-01	27417	6/4/2019	1.9	1.9
23	G2O Energy, LLC	IU-20190503 PFAS	96937	5/3/2019	<10	<5
24	General Motors LLC., Orion Assembly	S01589.02	93957	4/29/2019	ND	ND
25	GST Auto Leather, Inc.	IU_20190501PFAS	92614	5/1/2019	<9.8	15 16
	GST Auto Leather, Inc. GST Auto Leather, Inc.	S02434.06 IU_20190529PFAS	92614 92614	5/20/2019 5/29/2019	ND <11	16 15
	GST Auto Leather, Inc.	IU_20190627PFAS	92614	6/27/2019	<10	15
26	Hajjar Plating Services, Inc.	S02150.03	27539	5/13/2019	110	ND
27	International Hardcoat Inc.	S02434.04	27462	5/20/2019	87	ND
28	Lear Corporation dba Eagle Ottawa	S02611.04	97133	5/28/2019	ND	43
29	MacDermid, Inc.	S02150.10	27625	5/15/2019	2400	ND
	MacDermid, Inc.	IU_05162019	27625	5/16/2019	24000	74
	MacDermid, Inc.	IU_05162019_2	27625	5/16/2019	58000	ND
	MacDermid, Inc.	IU_05292019	27625	5/29/2019	290000	ND
20	MacDermid, Inc.	IU_06202019	27625	6/20/2019	7400	nd 4.0
30	Marathon Petroleum Company, LP Marathon Petroleum Company, LP	IU_20190403 S01894.10	27370 27370	4/3/2019	180 220	4.8 13
	Marathon Petroleum Company, LP	IU_20190522	27370	5/7/2019 5/22/2019	380	35
	Marathon Petroleum Company, LP	IU_20190606	27370	6/6/2019	320	12
	Marathon Petroleum Company, LP	IU_PFAS_20190709_A	27370	7/9/2019	140	17
	Marathon Petroleum Company, LP	IU_PFAS_20190709_B	27370	7/8/2019	150	18
	Marathon Petroleum Company, LP	IU_PFAS_20190808_A	27370	8/8/2019	150	18
	Marathon Petroleum Company, LP	IU_PFAS_20190808_B	27370	8/8/2019	710	10
31	McGean-Rohco, Inc.	IU_20190404PFAS	27514	4/4/2019	1100	ND
	McGean-Rohco, Inc.	S02434.07	27514	5/20/2019	ND	52
32	Oakland Heights Development, Inc.	S04492.01	27570	7/11/2019	74	310
33	Pine Tree Acres, Inc.	S02150.11	90694	5/16/2019	320	1400
34	RACER Trust site/ Former GM Livonia RACER Trust site/ Former GM Livonia	SDS-20190430 SDS-20190523	94508 94508	4/30/2019	95 100	4.1 5.2
35	Richcoat, L.L.C.	S02150.09	27168	5/23/2019 5/14/2019	19	ND
33	Richcoat, L.L.C.	27168-072619-01	27168	7/26/2019	17	<9.3
	Richcoat, L.L.C.	27168-082319-01	27168	8/23/2019	16	<10
36	RJL Equity Holdings, LLC	S02150.06	96607	5/13/2019	20	52
37	Selfridge Air National Guard Base	S05319.01	27167	7/29/2019	1200	33
38	Selfridge Plating, Inc.	S01589.04	27251	4/30/2019	13	ND
	Selfridge Plating, Inc.	CK01219	27251	5/9/2019	<9.5	<9.5
	Selfridge Plating, Inc.	27251-071119-01	27251	7/11/2019	17	<9.4
39	South Macomb Disposal Authority	S01589.05	94478	4/30/2019	32	33
40	South Macomb Disposal Authority	94478-052819-01	94478	5/28/2019	43	50
40	Southeastern Oakland County Resource Recovery Authority	S02150.12 S00378.03	94089	5/16/2019	120 ND	37 ND
41 42	Sterling Metal Finishing Strength Environmental, LLC	IU-01032019	27330 27488	3/27/2019 1/3/2019	ND <10	ND 47
42	Strength Environmental, LLC	IU-01102019	27488	1/3/2019	<10	140
	Strength Environmental, LLC	IU-01152019	27488	1/15/2019	<10	56
	Strength Environmental, LLC	IU-01252019	27488	1/25/2019	<10	43
	Strength Environmental, LLC	IU-02072019	27488	2/7/2019	<10	7.4
	Strength Environmental, LLC	IU-02152019	27488	2/15/2019	27	190
	Strength Environmental, LLC	IU-02282019	27488	2/28/2019	<10	180
	Strength Environmental, LLC	IU-03082018	27488	3/8/2019	<10	76
	Strength Environmental, LLC	IU-03152019	27488	3/15/2019	<10	240
	Strength Environmental, LLC	IU-03222019	27488	3/22/2019	<10	300
	Strength Environmental, LLC	IU-03272019	27488	3/27/2019	<10	110
	Strength Environmental, LLC	IU-04052019	27488	4/5/2019	<10	200
	Strength Environmental, LLC	IU-04092019	27488	4/9/2019	<10	110

Attachment 6 - PFOA and PFAS Sample Data Received by GLWA as of September 15, 2019

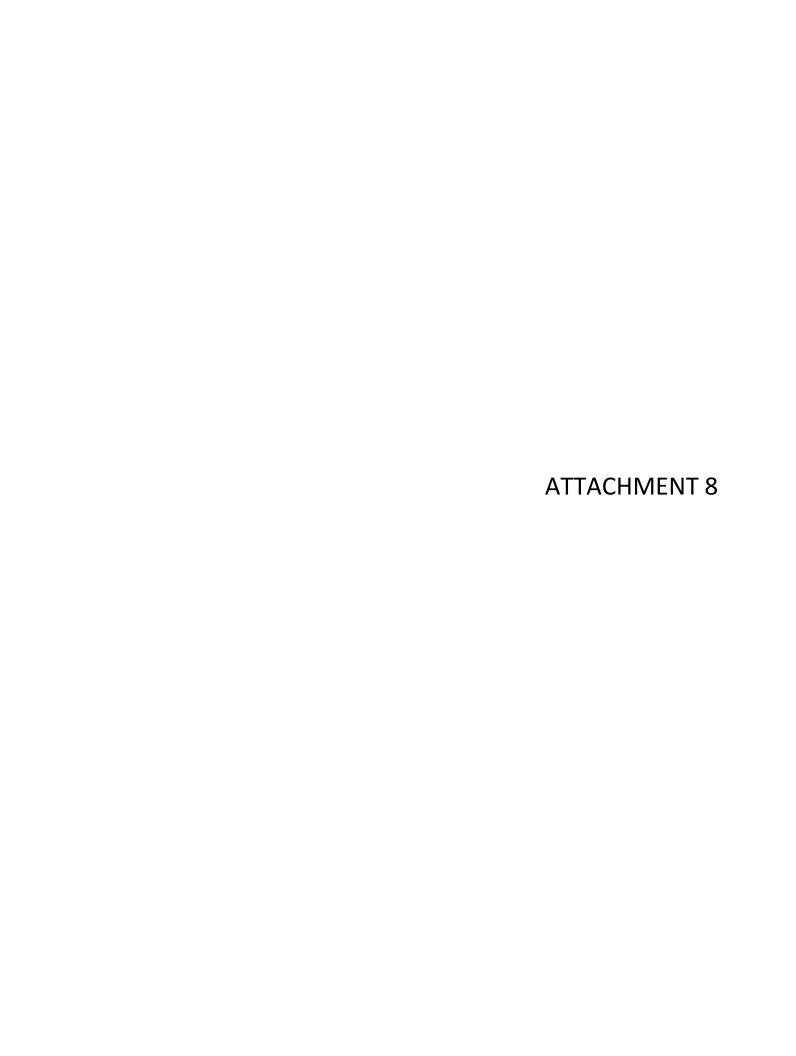
Industry Number	Industry Name	Sample Number	Industry No	Sample Date	PFOS (ng/l)	PFOA (ng/l)
	Strength Environmental, LLC	IU-04182019	27488	4/18/2019	<10	<5
	Strength Environmental, LLC	IU-04192019	27488	4/19/2019	<10	9.2
	Strength Environmental, LLC	IU-04242019	27488	4/24/2019	<10	19
	Strength Environmental, LLC	IU-05012019	27488	5/1/2019	<10	56
	Strength Environmental, LLC	IU-05092019	27488	5/9/2019	14	180
	Strength Environmental, LLC	S02150.08	27488	5/14/2019	96	710
	Strength Environmental, LLC	IU-05152019	27488	5/15/2019	11	160
	Strength Environmental, LLC	IU-05212019	27488	5/21/2019	24	240
	Strength Environmental, LLC	IU-05292019	27488	5/29/2019	57	280
	Strength Environmental, LLC	IU-07162019	27488	7/16/2019	64	200
43	US Ecology Michigan, Inc.	IU_05012019	27310	5/1/2019	140	22
73	US Ecology Michigan, Inc.	S01894.13	27310	5/8/2019	190	110
	US Ecology Michigan, Inc.	IU_05142019	27310	5/14/2019	69	53
	US Ecology Michigan, Inc.	IU 05242019	27310	5/24/2019	530	140
	US Ecology Michigan, Inc.	IU_05292019	27310	5/29/2019	220	70
	US Ecology Michigan, Inc.	IU_06052019	27310	6/5/2019	170	34
	US Ecology Michigan, Inc.	IU_06142019	27310	6/14/2019	180	7.9
	US Ecology Michigan, Inc.	IU_07032019	27310	7/3/2019	160	NA
44	US Ecology Romulus, Inc.	IU-02222019	27510	2/22/2019	NA	180
44		IU-05242019	27517		340	170
	US Ecology Romulus, Inc.	IU-05282019	27517	5/24/2019		110
	US Ecology Romulus, Inc.	IU-06072019	27517	5/28/2019 6/7/2019	350 65	100
	US Ecology Romulus, Inc.	IU-06172019	27517		65 67	170
	US Ecology Romulus, Inc.	S05319.02	27517	6/17/2019		
45	US Ecology Romulus, Inc.			7/30/2019	390 160	0.00
45	Usher Oil Company	S01894.07	27449	5/6/2019	160	66 38
	Usher Oil Company	IU_05312019	27449 27449	5/31/2019	34 190	28 33
	Usher Oil Company	IU_06022019		6/2/2019	190 59	55 57
	Usher Oil Company	IU_06242019	27449	6/24/2019		
	Usher Oil Company	IU_06252019 IU 06262019	27449	6/25/2019	130	41
	Usher Oil Company	_	27449 27449	6/26/2019	85 170	30
	Usher Oil Company Usher Oil Company	IU_07192019 IU 07242019		7/19/2019	170	63 37
	• •	IU 07262019	27449	7/24/2019	73 72	60
	Usher Oil Company Usher Oil Company	IU_07292019	27449 27449	7/26/2019	72 16	29
46	Waste Management of MI, IncWoodland Meadows North Landfill	S02150.05	27449 27499	7/29/2019 5/13/2019	16 140	630
40	Waste Management of MI, IncWoodland Meadows RDF-Van Buren	S02150.03 S02150.04	27499	5/13/2019	490	2800
47	Waste Management of MI, IncEagle Valley Recycle & Disposal				490 190	680
47	Wolverine Plating Corporation	S01589.03	27573 27144	4/29/2019	<1.8	<1.8
40	Wolverine Plating Corporation	IU_05102019 IU 05172019	27144	5/10/2019	<21	<21
		S02434.03	271 44 27144	5/17/2019	78	11
	Wolverine Plating Corporation		271 44 27144	5/20/2019		<5.7
	Wolverine Plating Corporation	IU_05202019		5/20/2019	<5.5 <9	<5.7 <9
40	Wolverine Plating Corporation	IU_06202019	27144	6/20/2019		
49	Z Technologies Corporation	S01894.02	27478	5/6/2019 7/17/2010	120	57 -5
FΩ	Z Technologies Corporation	IU_20190717PFAS	27478	7/17/2019	<10	<5
50	MDOT Parcel 5348	5348-EB01-20190118	30007	1/18/2019	14.00	29.00
	MDOT Parcel 5348	5348-EB01-20190205	30007	2/5/2019	ND ND	ND 7.40
	MDOT Parcel 5348	5348-EB01-20190220	30007	2/20/2019	ND	7.40
	MDOT-Parcel 5348	5348-EB01-20190308	30007	3/8/2019	ND	ND



	Attachmen	t 7:	October 2019 Progress Assessment Summary																
Report_month	Industri_Class	User#	Facility Name	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Reclassification Re	dasification	ed? Submitted	Ne Incorporated	into Date	Sample Results Available (See attachment 6)	Facility Reported Progress?	How?	GLWA Review - Progress Made?	How?
							420	11		Y/N	Y/N	Y/N			Y/N	Y/N		Y/N	
J	Airfield	38	Detroit Metropolitan Wayne County Airport	700,000	Continuous	12/18/2019	140	220	Significant Source	N	N	Yes	CA		No	N/A		N/A	
0	Airfield	109	Selfridge Air National Guard Base	153,264	Continuous	5/15/2018	21	240	Significant Source			Yes	PERMIT I	Modification	Yes	N/A		N/A	
0	Chemical Chemical/Electro	85	McGean-Rohco, Inc.	4,600	Continuous	9/11/2018	120	310	Significant Source	N	NA	Yes	CA	5/10/2019	Yes	N/A		N/A	
0	Plating/Metalfini shing	83	MacDermid, Inc.	17,119	Batch	8/27/2018	28	840	Significant Source	N	NA	Yes	CA	4/30/2019	Yes	N/A		N/A	
0	CWT	5	STRENGTH ENV (Advanced Resource Recovery, L.L.C.)	96,551	Batch	4/18/2018	290	ND (<23ng/l)	Significant Source	N	N	Yes	PERMIT	11/28/2018	Yes	Yes	Treatment	Yes	GAC & Advanced Oxidation
D	CWT	7	Aevitas Specialty Services Corp.	53,000	Batch	10/15/2018	10	70	Significant Source	N	N	Yes	CA	5/23/2019	Yes	N/A	_		
0	CWT	41	Disposal and Recycling Technologies, Inc.	250,300	Continuous	9/11/2018	1790	530	Significant Source	N	N	Yes	CA	5/6/2019	Yes	Yes	Treatment Upgrade	Yes	WWTS CONST. SCHEDULE
0	CWT	49	EQ Detroit dba US Ecology	155,702	Batch	9/11/2018	60	650	Significant Source	N		Yes	CA	5/7/2019	Yes	N/A		N/A	
N	CWT	50	EQ Resource Recovery Inc. (US Ecology Romulus)	129,358	Continuous	10/15/2018	130	240	Significant Source	N		Yes	CA	5/17/2019	Yes	N/A		N/A	
N	CWT	128	US Ecology Michigan, Inc.	75,000	Batch	10/15/2018	ND	30	Significant Source	N	N	Yes	CA	5/8/2019	Yes	N/A		N/A	
0	CWT	129	Usher Oil Company	340,000	Batch	9/11/2018	40	120	Significant Source	N	N	Yes	CA	5/15/2019	Yes	N/A		N/A	
	CWT		Envirosolids			6/11/2019	320	120	Significant Source	N	N	Yes	CA	4/25/2019	Yes	N/A		N/A	
D	ElectroPlating/M etalfinishing	2	A. G. Simpson (USA), Inc.	31,000.00	Continuous	10/22/2018	ND	350	Significant Source				Enforceme nt			N/A			
0	ElectroPlating/M etalfinishing	14	Arted Chrome Plating Inc.	6,124	Continuous	8/8/2018	<1.9	69	Significant Source	NA	NA	Yes	CA	7/30/2019	Yes	Yes	Treatment system	Yes	Activated carbon
N	ElectroPlating/M etalfinishing	15	A-W Custom Chrome, Inc.	630	Continuous	9/26/2018	ND	180	Significant Source	NA	NA	Yes	CA	7/29/2019	Yes	N/A		N/A	
D	ElectroPlating/M etalfinishing	17	Beacon Park Finishing, LLC (Howard Finishing Roseville)	71,900.00	Continuous	10/22/2018	ND	2560	Significant Source	NA	NA	Yes	CA		Yes	Yes	Treatment system	Yes	WWTS CONST. SCHEDULE (April 2019 w/Compliance Testing after July 2019) Elimination of
			Beacon Park Finishing, LLC (Howard Finishing Roseville)															Yes	chrome suppressant (STRMPX)

	Attachment	7:	October 2019 Progress Assessment Summary																
Report_month	Industri_Class	User#	Facility Name	IU Flow to WWTP (GPD)	Continuous or Batch discharger?	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Recipesification Re	i? Edasification	BMP Submitted	MP Incorporated in	nit? Date	Sample Results Available (See attachment 6)	Prograce	How?	GLWA Review - Progress Made?	How?
							420	11		Y/N	Y/N	Y/N			Y/N	Y/N		Y/N	
D	ElectroPlating/M etalfinishing	23	Chor Industries Inc.	12,303.00	Continuous	10/30/2018	ND	250	Significant Source	N	N	Yes	CA	5/1/2019	Yes	N/A		N/A	
N	ElectroPlating/M etalfinishing	27	Color Coat Plating Company	1,139	Batch	9/26/2018	ND	230	Significant Source			Yes	CA	7/5/2019	Yes	Yes	Treatment system Proposed	Yes	Design after 6- mo evaluation period
D	ElectroPlating/M etalfinishing	28	Controlled Power Company	551.00	Batch	10/30/2018	ND	20	Significant Source			Yes	CA		No	N/A		N/A	
0	ElectroPlating/M etalfinishing	36	Detroit Chrome Electro Forming Co.	2,180	Batch	9/25/2018	ND	9750	Significant Source	NA	NA	Yes	CA	None	Yes	Yes	Pilot Treatment system	Yes	Final Treatment in Design
N	ElectroPlating/M etalfinishing	58	Ford Motor Company - Dearborn Truck Plant	534,878	Batch	10/15/2018	30	50	Significant Source Probable			Yes	CA		Yes	N/A	·	N/A	
0	ElectroPlating/M etalfinishing	65	General Motors Company (Hamtramck)	488,199	Batch	8/13/2018	ND	ND	Significant Source			N	N						
D	ElectroPlating/M etalfinishing ElectroPlating/M	66	General Motors LLC., Orion Assembly	293,736.00	Continuous	11/1/2018	ND	30	Significant Source Significant			RECLA	SSIFIED		Yes	N/A	Treatment		Remove
0	etalfinishing	69	Hajjar Plating Services, Inc.	1,400	Continuous	8/8/2018	ND	370	Source	NA	NA	Yes	CA		Yes	Yes	system	Yes	GAC
0	ElectroPlating/M etalfinishing	79	International Hardcoat Inc.	60,000	Continuous	9/11/2018	ND	20	Significant Source			Yes	CA		Yes	N/A		N/A	
D	ElectroPlating/M etalfinishing	103	Richcoat, L.L.C.	12,900.00	Continuous	10/22/2018	ND	30	Significant Source	NA	NA	Yes	CA		Yes	N/A		N/A	
0	ElectroPlating/M etalfinishing	110	Selfridge Plating, Inc.	17,617	Continuous	9/17/2018	ND	30	Significant Source	NA	NA	Yes	CA	7/29/2019	Yes	N/A		N/A	
0	ElectroPlating/M etalfinishing	137	Wolverine Plating Corporation	114,150	Continuous	9/10/2018	ND	60	Significant Source	Υ	N	Yes	CA	5/6/2019	Yes	N/A		N/A	
0	Groundwater	100	Racer Trust (Groundwater)	726,850	Continuous	5/24/2018	5	86	Significant Source			Yes	CA		Yes	N/A		N/A	
J, F	Groundwater	142	MDOT - Parcel 5348	320,000.00	Continuous	1/18/2019	29	14	Significant Source				CA				GAC System	Yes	Completed. To be removed
N	Landfill	25	City of Livonia - Type III Landfill	16,000	Continuous	10/15/2018	50	100	Significant Source			Yes	CA		Yes	N/A		N/A	
N	Landfill	26	City of Pontiac	97,000	Continuous	10/5/2018	75	15	Significant Source	N	N	Yes	CA PENDING		Yes	N/A		N/A	
	Landfill	56	Ford Motor Company - Allen Park Clay Mine Landfill	35,020	Continuous		50	160	Significant Source			Yes	CA		Yes	N/A		N/A	
0	Landfill	93	Oakland Heights Development, Inc.	30,097	Continuous	9/12/2018	840	700	Significant Source			Yes	CA PENDING		Yes	N/A		N/A	
	Landfill	95	Pine Tree Acres, Inc.	161,215.0	Continuous	11/20/2018	430	1800	Significant Source			Yes	CA		Yes	N/A		N/A	
D	Landfill	98	PSB Credit Services, Inc. 561 Collier Rd	32,000.00	Continuous	11/28/2018	200	160	Significant Source	N	N	Yes	CA	6/27/2019	No	N/A		N/A	
D	Landfill	105	RJL Equity Holdings, LLC	6,000.00	Continuous	11/2/2018	ND	20	Significant Source						Yes	N/A		N/A	
D	Landfill	113	South Macomb Disposal Authority	69,928.00	Continuous	10/25/2018	30	20	Significant Source			Yes	CA		No	N/A		N/A	
D	Landfill	114	Southeastern Oakland County Resource Recovery Authority	37,400.00	Continuous	11/28/2018	30	40	Significant Source			Yes	CA		Yes	N/A		N/A	
М	Landfill	130	Waste Management of MI, IncEagle Valley Recycle & Disposal	29,537	Continuous	11/20/2018	170	490	Significant Source			Yes	CA		Yes	N/A		N/A	

	Attachment 7:		October 2019 Progress Assessment Summary															
Report_month	Industri_Class	User#	Facility Name	IU Flow to WWTP (GPD) discharger	Sample Date	PFOA result (ng/l)	PFOS result (ng/l)	Classification	Recibes Request	ed? Redassiftation	Bun Sthuiter	MR Incorporated	Date Date	Sample Results Available (See attachment 6)	Facility Reported Progress?	How?	GLWA Review - Progress Made?	How?
						420	11		Y/N	Y/N	Y/N			Y/N	Y/N		Y/N	
М	Landfill	131	Waste Management of MI, IncWoodland Meadows North Landfill	14,917 Continuou	s 11/20/2018	150	57	Significant Source			Yes	CA		Yes	N/A		N/A	_
М	Landfill	132	Waste Management of MI, IncWoodland Meadows RDF-Van Buren	36,025 Continuou		510	2000	Significant Source			Yes	CA		Yes	N/A		N/A	
0	Landfill	133	Waterford Hills Landfill/MDEQ, RRD	2,000 Continuou	s 8/2/2018	680	130	Significant Source			Yes	PERMIT	N	No	Yes	Treatment installed	Yes	GAC & Anion Exchange resin
0	Laundry	24	Cintas Corporation - Westland	71,183 Continuou	s 9/11/2018	ND	40	Significant Source			Yes	CA	7/2/2019	Yes	Yes	Solids hauled away	N/A	
0	Laundry	42	Domestic Uniform Rental	64,276 Continuou	s 9/10/2018	20	50	Significant Source	N	N	Yes	CA	5/31/2019	Yes	N/A	away	N/A	
0	Leather		Lear Corporation dba Eagle Ottawa		9/21/2018	43	14	Significant Source						Yes	N/A		N/A	
0	Other	1	3M Company	15,585 Continuou	s 8/20/2018	ND	<9.28	Probable Significant Source			Yes	N		No	N/A		N/A	
N	Other	37	Detroit Diesel Corporation	117,400 Continuou	s 9/28/2018	5.3	11	Significant Source			Yes	CA	6/20/2019	Yes	Yes	Source identified	N/A	
N	Other	63	G2O Energy, LLC		10/15/2018	ND	10	Significant Source			Yes	CA	6/28/2019	Yes	N/A		N/A	
N	Paint	141	Z Technologies Corporation	510 Continuou	s 10/15/2018	20	60	Significant Source	N	N	Yes	CA	5/7/2019	Yes	N/A		N/A	
0	Refining	84	Marathon Petroleum Company, LP	1,718,849 Continuou	s 6/27/2018	30	360	Significant Source	N	N	Yes	PERMIT	5/1/2019	Yes	Yes	Source identified	Yes	C8 replaced with C6
0	Tank	31	Dana Container, Inc. Tank Cleaning Division	12,950 Batch	9/10/2018	280	140	Significant Source	N	NA	Yes	CA	4/30/2019	Yes	N/A		N/A	



Attachment 8.1 – Guidance Information for General Users: Best Management Program Plans - PFAS Compounds

Any permittee who has been identified as a significant source or potential significant source of PFAS Compounds shall submit a Best Management Plan (BMP) with the information specified below, within 90 days or by March 31, 2019.

Upon receipt, the BMP shall be reviewed and used to develop a modified Wastewater Discharge Permit with appropriate conditions and requirements. As necessary, the permittee shall provide an updated Wastewater Discharge Permit Modification (Permit Application form), so that conditions and requirements may include, where appropriate, self-monitoring; compliance standards, and other requirements for PFOS and PFOA.

Minimum Information Requirements to Support a BMP:

- 1. Best Management Program Plans (BMP) The permittee shall develop, maintain and implement a comprehensive program as part of its PFAS Monitoring and Management plan that include treatment methods employed, sampling protocols used, percentage removal, BMP and other Management protocols; for the control, reduction and elimination of PFAS. The program is subject to inspection by GLWA during permittee's annual onsite Comprehensive Inspection. The permittee will review and update its PFAS Monitoring and Management Plan on an annual basis for any changes to its program. The permittee will also update its Waste Analysis Plan to include treatment of PFAS substances. The permittee shall provide a written documentation that it has complied with this requirement and it shall be included with every December Six Month Report.
- 2. Additional Monitoring and Source Investigation The GLWA understands that your classification as a significant source or potential significant source of PFAS Compounds is based upon a limited number of sample results and that additional monitoring, analysis and investigations may be needed as part of a comprehensive BMP.
 - i. A permittee who intends to pursue additional monitoring and source investigations shall develop an approvable schedule as part of their BMP;
 - ii. A permittee who does not intend to pursue additional monitoring and source investigations shall indicate so as part of their BMP.
- 3. Treatment & Removal Capabilities Where the discharge contributions equal or exceed the compliance standards¹ (PFOS 60 ng/l and PFOA 2300 ng/l):
 - The permittee shall provide a description of the waste and wastewater treatment technologies and/or disposal protocols to be used at the facility for the treatment of waste and wastewaters containing PFAS substances.
 - ii. The permittee shall provide documentation showing its capability to treat wastes and wastewaters containing PFAS Substances based upon the treatment technology(ies) described in paragraph A(i). Such documentation includes but is not limited to treatises, bench-scale treatment models, actual self-monitoring data or equivalent methods. This demonstration must, at a minimum, establish the removal efficiencies expected to be achieved; the volume(s) of waste or wastewater processed for the demonstration and analytical results to calculate the mass loadings of PFAS substances before and after treatment.
 - iii. Where the discharge does not exceed the GLWA's compliance standard, the specifications of subparagraphs I and ii are optional. As appropriate, the permittee shall indicate this as part of their BMP.

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¹ Compliance Standards have been calculated as preliminary maximum allowable discharge concentrations until such time as a formal local limits evaluation study has been completed.

Attachment 8.1 – Guidance Information for General Users: Best Management Program Plans - PFAS Compounds

4. Self-Monitoring Program

- i. The permittee shall propose a self-monitoring program for all parameters identified in Table 1 below. Currently, GLWA proposes weekly sampling for PFAS Compounds, but will consider alternative proposals.
- ii. Compliance standards may be developed and incorporated into Wastewater Discharge Permits at the discretion of GLWA.

- i. The permittee shall develop and maintain records of the source, volume, and any characterization data collected for specific wastes and wastewaters. The permittee shall maintain this information for onsite inspection by the GLWA and, at a minimum, include calculation of the loading (pounds) received, the loading (pounds) discharged and loading (pounds) disposed off-site per month; and
- ii. The permittee shall develop and maintain records for the disposal of any liquids or solids resulting from the treatment of PFAS substances. Such information shall be made available for onsite inspection upon request by GLWA.
- 6. Permit Modifications GLWA will review and evaluate the BMP and determine applicable permit conditions and requirements to acknowledge and implement the BMP.

Attachment 8.1 – Guidance Information for General Users: Best Management Program Plans - PFAS Compounds

Table 1 - Compliance Standards For Per and Polyfluoroalkyl Substances:

Perfluorobutanoic acid (PFBA)	Report	TBD
Perfluoropentanoic acid (PFPeA)	Report	TBD
Perfluorohexanoic acid (PFHxA)	Report	TBD
Perfluoroheptanoic acid (PFHpA)	Report	TBD
Perfluorooctanoic acid (PFOA)	TBD μg/l	TBD
Perfluorononanoic acid (PFNA)	Report	TBD
Perfluorodecanoic acid (PFDA)	Report	TBD
Perfluoroundecanoic acid (PFUnDA)	Report	TBD
Perfluorododecanoic acid (PFDoDA)	Report	TBD
Perfluorotridecanoic acid (PFTrDA)	Report	TBD
Perfluorotetradecanoic acid (PFTeDA)	Report	TBD
Perfluorobutane Sulfonic acid (PFBS)	Report	TBD
Perfluoropentane Sulfonic acid (PFPeS)	Report	TBD
Perfluorohexane Sulfonic acid (PFHxS)	Report	TBD
Perfluoroheptane Sulfonic acid (PFHpS)	Report	TBD
Perfluorooctane Sulfonic acid (PFOS)	TBD μg/l	TBD
Perfluorononane Sulfonic acid (PFNS)	Report	TBD
Perfluorodecane Sulfonic acid (PFDS)	Report	TBD
Perfluorooctane sulfonamide (FOSA)	Report	TBD
4:2 Fluorotelomer sulfonic acid (4:2 FTSA)	Report	TBD
6:2 Fluorotelomer sulfonic acid (6:2 FTSA)	Report	TBD
8:2 Fluorotelomer sulfonic acid (8:2 FTSA)	Report	TBD
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	Report	TBD
N-Methyl perfluorooctane sulfonamide (N-MeFOSA)	Report	TBD

Option #1: A Centralized Waste Treatment Facility who intends to process and discharge wastewater containing Per and Polyfluoroalkyl Substances (PFAS) shall submit Best Management Plan (BMP) with the information specified below, within 90 days or by March 31, 2019.

Upon receipt, the BMP shall be reviewed and used to develop a modified Wastewater Discharge Permit with appropriate conditions and requirements. As necessary, the CWT shall provide an updated Wastewater Discharge Permit Modification (Permit Application form), so that conditions and requirements may include, where appropriate, self-monitoring; compliance standards, and other requirements for PFOS and PFOA.

Minimum Information Requirements to Support a BMP:

- 1. Best Management Program Plans (BMP) The permittee shall develop, maintain and implement a comprehensive program as part of its PFAS Monitoring and Management plan that include treatment methods employed, sampling protocols used, percentage removal, BMP and other Management protocols; for the control, reduction and elimination of PFAS. The program is subject to inspection by GLWA during permittee's annual onsite Comprehensive Inspection. The permittee will review and update its PFAS Monitoring and Management Plan on an annual basis for any changes to its program. The permittee will also update its Waste Analysis Plan to include treatment of PFAS substances. The permittee shall provide a written documentation that it has complied with this requirement and it shall be included with every December Six Month Report.
- 2. Data and Information Investigation Additional data may be necessary to quantify or size treatment and other requirements. The BMP shall include the steps to be taken and a brief schedule for accomplishing this task.
- 3. Treatment & Removal Capabilities Where the discharge contributions equal or exceed the compliance standards² (PFOS 60 ng/l and PFOA 2300 ng/l):
 - A. The permittee shall provide a description of the waste and wastewater treatment technologies and/or disposal protocols used at the facility for the treatment of waste and wastewaters containing PFAS substances.
 - B. The permittee shall provide documentation showing its capability to treat wastes and wastewaters containing PFAS Substances based upon the treatment technology(ies) described in paragraph 1. Such documentation includes but is not limited to treatises, bench-scale treatment models, actual self-monitoring data or equivalent methods. This demonstration must, at a minimum, establish the removal efficiencies expected to be achieved; the volume(s) of waste or wastewater processed for the demonstration and analytical results to calculate the mass loadings of PFAS substances before and after treatment.

4. Waste & Wastewater Characterization & Evaluation

- A. The permittee shall develop, and implement, a screening and monitoring program for identifying and evaluating PFAS substances in waste and wastewater accepted for treatment. This program shall be made available for onsite review by GLWA, upon request.
- B. The program description shall include the methods used for evaluating (fingerprinting) and characterizing wastes and wastewaters accepted for treatment.
- C. At a minimum, the characterization of wastes and wastewaters shall be based on data

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² Compliance Standards have been calculated as preliminary maximum allowable discharge concentrations until such time as a formal local limits evaluation study has been completed.

collected during the last 2 years

5. Self-Monitoring Program

- A. The permittee shall propose a self-monitoring program for all parameters identified in Table 1 below. Currently, GLWA proposes weekly sampling for PFAS Compounds, but will consider alternative proposals.
- B. Compliance standards may be developed and incorporated into Wastewater Discharge Permits at the discretion of GLWA.

- A. The permittee shall develop and maintain records of the source, volume, and any characterization data collected for specific wastes and wastewaters. The permittee shall maintain this information for onsite inspection by the GLWA and, at a minimum, include calculation of the loading (pounds) received, the loading (pounds) discharged and loading (pounds) disposed off-site per month; and
- B. The permittee shall develop and maintain records for the disposal of any liquids or solids resulting from the treatment of PFAS substances. Such information shall be made available for onsite inspection upon request by GLWA.
- 7. Permit Modifications GLWA will review and evaluate the BMP and determine applicable permit conditions and requirements to acknowledge and implement the BMP.

Option #2: A Centralized Waste Treatment Facility who does not intend to process and discharge wastewater containing Per and Polyfluoroalkyl Substances (PFAS) shall submit Best Management Plan (BMP) with the information specified below, within 90 days or by March 31, 2019.

Upon receipt, the BMP shall be reviewed and used to develop a modified Wastewater Discharge Permit with appropriate conditions and requirements. As necessary, the CWT shall provide an updated Wastewater Discharge Permit Modification (Permit Application form), so that conditions and requirements may include, where appropriate, self-monitoring; compliance standards, and other requirements for PFOS and PFOA.

Minimum Information Requirements to Support a BMP:

- 1. Best Management Program Plans (BMP) The permittee shall develop, maintain and implement a comprehensive program as part of its PFAS Monitoring and Management plan that include treatment methods employed, sampling protocols used, percentage removal, BMP and other Management protocols; for the control, reduction and elimination of PFAS. The program is subject to inspection by GLWA during permittee's annual onsite Comprehensive Inspection. The permittee will review and update its PFAS Monitoring and Management Plan on an annual basis for any changes to its program. The permittee will also update its Waste Analysis Plan to include treatment of PFAS substances. The permittee shall provide a written documentation that it has complied with this requirement and it shall be included with every December Six Month Report.
- 2. Data and Information Investigation Additional data may be necessary to quantify or size treatment and other requirements. The BMP shall include the steps to be taken and a brief schedule for accomplishing this task.
- 3. Treatment & Removal Capabilities Where the discharge contributions equal or exceed the compliance standards³ (PFOS 60 ng/l and PFOA 2300 ng/l):
 - A. The permittee shall provide a description of the waste and wastewater treatment technologies and/or disposal protocols used at the facility for the treatment of waste and wastewaters containing PFAS substances.
 - B. The permittee shall provide documentation showing its capability to treat wastes and wastewaters containing PFAS Substances based upon the treatment technology(ies) described in paragraph 1. Such documentation includes but is not limited to treatises, bench-scale treatment models, actual self-monitoring data or equivalent methods. This demonstration must, at a minimum, establish the removal efficiencies expected to be achieved; the volume(s) of waste or wastewater processed for the demonstration and analytical results to calculate the mass loadings of PFAS substances before and after treatment.

4. Waste & Wastewater Characterization & Evaluation

- i. The permittee shall develop, and implement, a screening and monitoring program for identifying and evaluating PFAS substances in waste and wastewater accepted for treatment. This program shall be made available for onsite review by GLWA, upon request.
- ii. The program description shall include the methods used for evaluating (fingerprinting) and characterizing wastes and wastewaters accepted for treatment.
- iii. At a minimum, the characterization of wastes and wastewaters shall be based on

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³ Compliance Standards have been calculated as preliminary maximum allowable discharge concentrations until such time as a formal local limits evaluation study has been completed.

data collected during the last 2 years

5. Self-Monitoring Program

- i. The permittee shall propose a self-monitoring program for all parameters identified in Table 1 below. Currently, GLWA proposes weekly sampling for PFAS Compounds, but will consider alternative proposals.
- ii. Compliance standards may be developed and incorporated into Wastewater Discharge Permits at the discretion of GLWA.

- i. The permittee shall develop and maintain records of the source, volume, and any characterization data collected for specific wastes and wastewaters. The permittee shall maintain this information for onsite inspection by the GLWA; and
- ii. The permittee shall develop and maintain records for the disposal of any liquids or solids resulting from the treatment of PFAS substances. Such information shall be made available for onsite inspection upon request by GLWA.
- 7. Permit Modifications GLWA will review and evaluate the BMP and determine applicable permit conditions and requirements to acknowledge and implement the BMP.

Table 1 - Compliance Standards For Per and Polyfluoroalkyl Substances:

Report	TBD
Report	TBD
Report	TBD
Report	TBD
TBD μg/l	TBD
Report	TBD
TBD μg/l	TBD
Report	TBD
	Report

Option #1: An active landfill facility who intends to process and discharge wastewater containing Per and Polyfluoroalkyl Substances (PFAS) shall submit Best Management Plan (BMP) with the information specified below, within 90 days or by March 31, 2019.

Upon receipt, the BMP shall be reviewed and used to develop a modified Wastewater Discharge Permit with appropriate conditions and requirements. As necessary, the CWT shall provide an updated Wastewater Discharge Permit Modification (Permit Application form), so that conditions and requirements may include, where appropriate, self-monitoring; compliance standards, and other requirements for PFOS and PFOA.

Minimum Information Requirements to Support a BMP:

- 1. Best Management Program Plans (BMP) The permittee shall develop, maintain and implement a comprehensive program as part of its PFAS Monitoring and Management plan that include treatment methods employed, sampling protocols used, percentage removal, BMP and other Management protocols; for the control, reduction and elimination of PFAS. The program is subject to inspection by GLWA during permittee's annual onsite Comprehensive Inspection. The permittee will review and update its PFAS Monitoring and Management Plan on an annual basis for any changes to its program. The permittee will also update its Waste Analysis Plan to include treatment of PFAS substances. The permittee shall provide a written documentation that it has complied with this requirement and it shall be included with every December Six Month Report.
- 2. Data and Information Investigation Additional data may be necessary to quantify or size treatment and other requirements. The BMP shall include the steps to be taken and a brief schedule for accomplishing this task.
- 3. Treatment & Removal Capabilities Where the discharge contributions equal or exceed the compliance standards⁴ (PFOS 60 ng/l and PFOA 2300 ng/l):
 - A. The permittee shall provide a description of the waste and wastewater treatment technologies and/or disposal protocols to be used at the facility for the treatment of waste and wastewaters containing PFAS substances.
 - B. The permittee shall provide documentation showing its capability to treat wastes and wastewaters containing PFAS Substances based upon the treatment technology(ies) described in paragraph A(i). Such documentation includes but is not limited to treatises, bench-scale treatment models, actual self-monitoring data or equivalent methods. This demonstration must, at a minimum, establish the removal efficiencies expected to be achieved; the volume(s) of waste or wastewater processed for the demonstration and analytical results to calculate the mass loadings of PFAS substances before and after treatment.

4. Waste & Wastewater Characterization & Evaluation

- A. The permittee shall develop, and implement, a screening and monitoring program for identifying and evaluating PFAS substances in waste and wastewater accepted for treatment. This program shall be made available for onsite review by GLWA, upon request.
- B. The program description shall include the methods used for evaluating (fingerprinting) and characterizing wastes and wastewaters accepted for treatment.
- C. At a minimum, the characterization of wastes and wastewaters shall be based on data

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⁴ Compliance Standards have been calculated as preliminary maximum allowable discharge concentrations until such time as a formal local limits evaluation study has been completed.

collected during the last 2 years

5. Self-Monitoring Program

- A. The permittee shall propose a self-monitoring program for all parameters identified in Table 1 below. Currently, GLWA proposes weekly sampling for PFAS Compounds, but will consider alternative proposals.
- B. Compliance standards may be developed and incorporated into Wastewater Discharge Permits at the discretion of GLWA.

- A. The permittee shall develop and maintain records of the source, volume, and any characterization data collected for specific wastes and wastewaters. The permittee shall maintain this information for onsite inspection by the GLWA and, at a minimum, include calculation of the loading (pounds) received, the loading (pounds) discharged and loading (pounds) disposed off-site per month; and
- B. The permittee shall develop and maintain records for the disposal of any liquids or solids resulting from the treatment of PFAS substances. Such information shall be made available for onsite inspection upon request by GLWA.
- 7. Additional Requirements or Conditions The State of Michigan is working with other landfill operators in the state and may propose alternative or other conditions and requirements. Such information is not expected until after March 1, 2019. To the extent, that alternative or other requirements are recommended, the GLWA will consider and incorporate equivalent conditions and requirements in any Wastewater Discharge Permit.
- 8. Permit Modifications GLWA will review and evaluate the BMP and determine applicable permit conditions and requirements to acknowledge and implement the BMP.

Option #2: A active landfill facility who **does not** to process and discharge wastewater containing Per and Polyfluoroalkyl Substances (PFAS) shall submit Best Management Plan (BMP) with the information specified below, within 90 days or by March 31, 2019.

Upon receipt, the BMP shall be reviewed and used to develop a modified Wastewater Discharge Permit with appropriate conditions and requirements. As necessary, the CWT shall provide an updated Wastewater Discharge Permit Modification (Permit Application form), so that conditions and requirements may include, where appropriate, self-monitoring; compliance standards, and other requirements for PFOS and PFOA.

Minimum Information Requirements to Support a BMP:

- 1. Best Management Program Plans (BMP) The permittee shall develop, maintain and implement a comprehensive program as part of its PFAS Monitoring and Management plan that include treatment methods employed, sampling protocols used, percentage removal, BMP and other Management protocols; for the control, reduction and elimination of PFAS. The program is subject to inspection by GLWA during permittee's annual onsite Comprehensive Inspection. The permittee will review and update its PFAS Monitoring and Management Plan on an annual basis for any changes to its program. The permittee will also update its Waste Analysis Plan to include treatment of PFAS substances. The permittee shall provide a written documentation that it has complied with this requirement and it shall be included with every December Six Month Report.
- 2. Data and Information Investigation Additional data may be necessary to quantify or size treatment and other requirements. The BMP shall include the steps to be taken and a brief schedule for accomplishing this task.
- 3. Treatment & Removal Capabilities Where the discharge contributions equal or exceed the compliance standards⁵ (PFOS 60 ng/l and PFOA 2300 ng/l):
 - A. The permittee shall provide a description of the waste and wastewater treatment technologies and/or disposal protocols to be used at the facility for the treatment of waste and wastewaters containing PFAS substances.
 - B. The permittee shall provide documentation showing its capability to treat wastes and wastewaters containing PFAS Substances based upon the treatment technology(ies) described in paragraph A(i). Such documentation includes but is not limited to treatises, bench-scale treatment models, actual self-monitoring data or equivalent methods. This demonstration must, at a minimum, establish the removal efficiencies expected to be achieved; the volume(s) of waste or wastewater processed for the demonstration and analytical results to calculate the mass loadings of PFAS substances before and after treatment.

4. Waste & Wastewater Characterization & Evaluation

- A. The permittee shall develop, and implement, a screening and monitoring program for identifying and evaluating PFAS substances in waste and wastewater accepted for treatment. This program shall be made available for onsite review by GLWA, upon request.
- B. The program description shall include the methods used for evaluating (fingerprinting) and characterizing wastes and wastewaters accepted for treatment.
- C. At a minimum, the characterization of wastes and wastewaters shall be based on data collected during the last 2 years

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⁵ Compliance Standards have been calculated as preliminary maximum allowable discharge concentrations until such time as a formal local limits evaluation study has been completed.

5. Self-Monitoring Program

- A. The permittee shall propose a self-monitoring program for all parameters identified in Table 1 below. Currently, GLWA proposes weekly sampling for PFAS Compounds, but will consider alternative proposals.
- B. Compliance standards may be developed and incorporated into Wastewater Discharge Permits at the discretion of GLWA.

- A. The permittee shall develop and maintain records of the source, volume, and any characterization data collected for specific wastes and wastewaters. The permittee shall maintain this information for onsite inspection by the GLWA and, at a minimum, include calculation of the loading (pounds) received, the loading (pounds) discharged and loading (pounds) disposed off-site per month; and
- B. The permittee shall develop and maintain records for the disposal of any liquids or solids resulting from the treatment of PFAS substances. Such information shall be made available for onsite inspection upon request by GLWA.
- 7. Additional Requirements or Conditions The State of Michigan is working with other landfill operators in the state and may propose alternative or other conditions and requirements. Such information is not expected until after March 1, 2019. To the extent, that alternative or other requirements are recommended, the GLWA will consider and incorporate equivalent conditions and requirements in any Wastewater Discharge Permit.
- 8. Permit Modifications GLWA will review and evaluate the BMP and determine applicable permit conditions and requirements to acknowledge and implement the BMP.

Option #3: A closed landfill facility who received wastes and waste materials containing Per and Polyfluoroalkyl Substances (PFAS) shall submit a Best Management Plan (BMP) with the information specified below, within 90 days or by March 31, 2019.

Upon receipt, the BMP shall be reviewed and used to develop a modified Wastewater Discharge Permit with appropriate conditions and requirements. As necessary, the Landfill shall provide an updated Wastewater Discharge Permit Modification (Permit Application form), so that conditions and requirements may include, where appropriate, self-monitoring; compliance standards, and other requirements for PFOS and PFOA.

Minimum Information Requirements to Support a BMP:

- 1. Best Management Program Plans (BMP) The permittee shall develop, maintain and implement a comprehensive program as part of its PFAS Monitoring and Management plan that include treatment methods employed, sampling protocols used, percentage removal, BMP and other Management protocols; for the control, reduction and elimination of PFAS. The program is subject to inspection by GLWA during permittee's annual onsite Comprehensive Inspection. The permittee will review and update its PFAS Monitoring and Management Plan on an annual basis for any changes to its program. The permittee will also update its Waste Analysis Plan to include treatment of PFAS substances. The permittee shall provide a written documentation that it has complied with this requirement and it shall be included with every December Six Month Report.
- 2. Data and Information Investigation Additional data may be necessary to quantify or size treatment and other requirements. The BMP shall include the steps to be taken and a brief schedule for accomplishing this task.
- 3. Treatment & Removal Capabilities Where the discharge contributions equal or exceed the compliance standards⁶ (PFOS 60 ng/l and PFOA 2300 ng/l):
 - A. The permittee shall provide a description of the waste and wastewater treatment technologies and/or disposal protocols used at the facility for the treatment of waste and wastewaters containing PFAS substances.
 - B. The permittee shall provide documentation showing its capability to treat wastes and wastewaters containing PFAS Substances based upon the treatment technology(ies) described in paragraph 1. Such documentation includes but is not limited to treatises, bench-scale treatment models, actual self-monitoring data or equivalent methods. This demonstration must, at a minimum, establish the removal efficiencies expected to be achieved; the volume(s) of waste or wastewater processed for the demonstration and analytical results to calculate the mass loadings of PFAS substances before and after treatment.

4. Waste & Wastewater Characterization & Evaluation

- A. The permittee shall develop, and implement, a screening and monitoring program for identifying and evaluating PFAS substances in waste and wastewater accepted for treatment. This program shall be made available for onsite review by GLWA, upon request.
- B. The program description shall include the methods used for evaluating (fingerprinting) and characterizing wastes and wastewaters accepted for treatment.
- C. At a minimum, the characterization of wastes and wastewaters shall be based on data collected during the last 2 years

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⁶ Compliance Standards have been calculated as preliminary maximum allowable discharge concentrations until such time as a formal local limits evaluation study has been completed.

5. Self-Monitoring Program

- A. The permittee shall propose a self-monitoring program for all parameters identified in Table 1 below. Currently, GLWA proposes weekly sampling for PFAS Compounds, but will consider alternative proposals.
- B. Compliance standards may be developed and incorporated into Wastewater Discharge Permits at the discretion of GLWA.

- A. The permittee shall develop and maintain records of the source, volume, and any characterization data collected for specific wastes and wastewaters. The permittee shall maintain this information for onsite inspection by the GLWA and, at a minimum, include calculation of the loading (pounds) received, the loading (pounds) discharged and loading (pounds) disposed off-site per month; and
- B. The permittee shall develop and maintain records for the disposal of any liquids or solids resulting from the treatment of PFAS substances. Such information shall be made available for onsite inspection upon request by GLWA.
- 7. Additional Requirements or Conditions The State of Michigan is working with other landfill operators in the state and may propose alternative or other conditions and requirements. Such information is not expected until after March 1, 2019. To the extent, that alternative or other requirements are recommended, the GLWA will consider and incorporate equivalent conditions and requirements in any Wastewater Discharge Permit.
- 8. Permit Modifications GLWA will review and evaluate the BMP and determine applicable permit conditions and requirements to acknowledge and implement the BMP.

Table 1 - Compliance Standards For Per and Polyfluoroalkyl Substances:

Report	TBD
Report	TBD
Report	TBD
Report	TBD
TBD μg/l	TBD
Report	TBD
TBD µg/l	TBD
Report	TBD
	Report