Industrial Waste Control Group
9300 W. Jefferson Avenue, Ste. 210
Detroit, Michigan 48209

PERMIT APPLICATION FOR SIGNIFICANT INDUSTRIAL USER

This application/questionnaire **https://www.glwater.org/industrial-waste-control/** (☞ IWC Application Forms ☞ Permit Application) 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 II-703 of the GLWA Rule IPP-Rules_2024.pdf or at **https://www.glwater.org/industrial-waste-control/** (☞ 2024 GLWA Rule - Final ☞ IPP Rules 2024)) 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.

Section A. General Information	☐ BMR ☐ New Application ☐ Reapplication: Permit No. _____		
1	Company Name		
2	Facility Address		
3	Mailing Address (if different from facility address)		
4	Name of Authorized Representative		
	Title	Telephone Number	
	E-mail Address		
5	Facility Contact Person		
	Title	Telephone Number	
	E-mail Address		
6	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 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 Representative Signature		
	Date		

Section B. Business/Product/Service

1	Do you perform any of the processes listed in Appendix A at the facility?		☐ Yes	☐ No
	If yes, please list process(es) below			
2	Give a narrative description of all processing operations or service activities taking place at the facility address (Add additional sheets as necessary)			
3	Describe all facility operations that generate process wastewater onsite (Add additional sheets as necessary)			
4	Describe your principal product or service			
5	North American Industrial Classification (NAICS) Code **https://www.census.gov/naics/**			
6	Standard Industrial Classification (SIC) Code **https://www.osha.gov/data/sic-manual**			
7	Shift and Employee Information			
	Number of workdays per week		Operating hours	-
	Number of shifts per day		Number of Employees	
8	What month and year did your operations begin?			
9	What month and year did the facility's categorical operation(s) begin at the current location?			
10	What month and year did the facility begin discharging wastewater to the sewer?			
11	Do you discharge on holidays*?		☐ Yes	☐ No
	(If yes, please specify)			

* - Legal Holidays: New Year's Day, Martin Luther King Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day

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. Water Consumption

1 Water Sources (Check below all that apply)

☐ Municipal water supply ☐ Groundwater (private well)

☐ Surface water ☐ Other (Describe ☞)

2 Water Usage Provide water usages for last twelve (12) months. For BMR or New Application, include supporting documentation (i.e. copies of water bills, meter readings, etc.).

From		1st Quarter		2nd Quarter	
To		3rd Quarter		4th Quarter	

Denote applicable unit used for water usages ☐ gallons ☐ ccf (100 cubic feet or ≈748 gallons) ☐ cubic feet

Section E. Wastewater / Solid – Liquid Wastes

1 Does your facility 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 (Add additional sheets as necessary). ☐ Yes ☐ No

2 Please check all applicable methods of disposal for wastewater and any solid/liquid waste materials generated from your facility.

Method of Disposal (Check below all that apply)

☐ Discharged to sewer ☐ Hauled to Landfill ☐ Treated On-site ☐ Discharged to Pond or Lagoon

☐ Hauled to off-site Treatment facility ☐ Other (Describe ☞)

3 For wastes hauled off-site, are waste manifests available? ☐ Yes ☐ NA

If yes, provide copies of all waste manifests for last 12 months

4 Does your facility have secondary containment for spill control? (Dikes, trenches, storage controls) ☐ Yes ☐ NA

5 Does your facility have any floor drains in the chemical storage area? ☐ Yes ☐ NA

6 Does your facility submit Tier I or II information under the SARA Title III Program? ☐ Yes ☐ NA

7	Is your facility required to submit any of the following regulatory documents?		
	a) Spill Prevention Countermeasure Control (SPCC) Plan	☐ Yes	☐ No
	b) Pollution Incident Prevention Plan (PIPP)	☐ Yes	☐ No
	c) Contingency Plan	☐ Yes	☐ No
	d) Safety Data Sheet (SDS)	☐ Yes	☐ No
	e) R Form (Toxic chemical release reporting form)	☐ Yes	☐ No
	f) Treatment, Storage and Disposal Facility Operating License	☐ Yes	☐ No
	g) Other submitted Regulatory Documents (Describe ☞)		
8	**Notification of Hazardous Waste (Section II-503)**		
	Applies to all Industrial Users to report and submit the notification requirement, under 40 CFR 403.12(p) and GLWA Rules, Section II-503, of substances that would be discharged or released as hazardous waste set forth in 40 CFR 261.	☐ Attached	
	For guidance, see GLWA link **2023_01_HzW.pdf** or at **https://www.glwater.org/industrial-waste-control/** (☞ Guidance Information).		
9	**Flammable and Combustible Substances (Section II-302, a)**		
	Applies to certain Petroleum Refineries, gasoline storage and transfer facilities and chemical manufacturing plants and User discharges with LEL equal or greater than 15%.		
	a) Is your facility a Petroleum Refinery, gasoline transfer or storage facility or chemical manufacturing plant?	☐ Yes	☐ No
	b) Does your facility discharge wastewater that contain flammable and combustible substances?	☐ Yes	☐ No
	A "Yes" in a) and/or b) above, the company is required to install a combustible gas monitoring (CGM) system and proceed to c) below. If "No" in a) and/or b), proceed to 10).		
	c) Does your facility install a CGM system to check the presence and level of flammable and combustible substances in the sewer?	☐ Yes	☐ No
	If Yes, provide the following: Manufacturer _____		
	Model Number _____		
	Current LEL Reading _____		
	If No, the facility must submit with this application a Compliance Schedule on CGM installation and operation prior to issuance of a final wastewater discharge permit. (The Compliance Schedule consists of i) schedule of events, ii) commencement dates, iii) completion dates and iv) authorized signature.)	☐ Attached	
10	**pH Monitoring Plan and Monitoring Requirements (Section II-302, b)**		
	For guidance, see GLWA link: **2023_02_pH-Plan.pdf** or at **https://www.glwater.org/industrial-waste-control/** (☞ Guidance Information).		
	a) Does your facility perform on-site pH adjustment for operational purposes?	☐ Yes	☐ No
	b) Does your facility process acidic and/or caustic wastes / wastewater for treatment purposes?	☐ Yes	☐ No
	c) Is your facility classified as Centralized Waste Treatment facility?	☐ Yes	☐ No
	d) Does your facility discharge 25,000 gpd or more wastewater?	☐ Yes	☐ No
	If "Yes" in any of the above, your facility needs to develop and submit with this application a pH Monitoring Plan for approval and install an appropriate pH monitoring/recording device. If already installed provide the following:		
	Manufacturer _____		
	Model Number _____		
	If "No" in a) to d) above, the facility will be subjected to appropriate pH monitoring frequency.		
	e) Did you submit with this application your facility's pH Monitoring Plan.	☐ Yes	☐ No
	If Yes proceed to Section F. If No, the facility must submit with this application a Compliance Schedule on pH Monitoring requirements. (The Compliance Schedule consists of i) schedule of events, ii) commencement dates, iii) completion dates and iv) authorized signature.)	☐ Attached	

Section F. Process Descriptions/Wastestream Discharge Flows

Process Descriptions	Wastewater Flow (gallons/day)				Discharge Frequency		Days of Discharge	Hours of Discharge	Type
	Average (gpd)	Maximum (gpd)	Measured	Estimate	**B**atch, **I**ntermittent, or **C**ontinuous **BIC**	Describe frequency as clearly as possible	(M,T,W,Th,F,Sa,Su)	(00:00 AM – 00:00 PM)	i) Regulated * ii) Non-regulated or Dilution
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					
			☐	☐					
Boiler Makeup / Blowdown			☐	☐					
Air Pollution Control			☐	☐					
Non-Contact Cooling Water			☐	☐					
Sanitary			☐	☐					
Total Plant Flow	0	0							

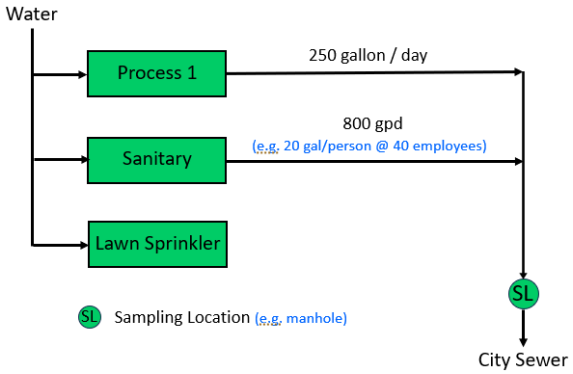
Batch – wastewater discharge occurs on a periodic or episodic basis as part of a volume (e.g. 1-3 times daily, 2 times weekly)
Intermittent - wastewater discharge infrequently (e.g. discharge occurs at uneven intervals, sporadically, stops and starts)
Continuous - wastewater discharge occurs on a regular basis (e.g. daily)
* As defined by 40 CFR 403.6

Comment	

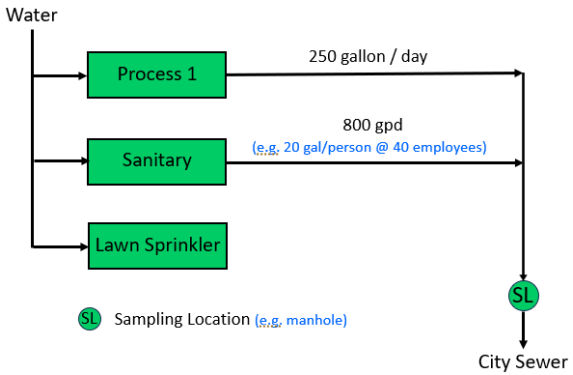
Section G. Wastewater Flow Schematic

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. (Must comply with GLWA Rules, Section II-605,b)

Example 1



Example 2



Section H. Wastewater Sampling Location Description (Describe location(s) of all sampling site(s) as referenced above and attach Facility Schematic/ Layout)

1	
2	
3	

Section I. Sampling Plan and Sampling Methodology

1. Sampling Plan (Section II-603, a)

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. The sampling plan shall describe the sampling protocols and methods of sampling that will be used at the facility during the term of this permit.

See GLWA link: **2023-03-Sampling-Plans.pdf** or at **https://www.glwater.org/industrial-waste-control/** (☞ Guidance Information) for guidance.

Does your company have a Sampling Plan describing the manner and form intended for representative wastewater self-monitoring? ☐ Yes ☐ No

If Yes, attach with this application a copy of your Sampling Plan.

If No, the facility must submit with this application the Compliance Schedule on Sampling Plan requirements. (The Compliance Schedule consists of i) schedule of events, ii) commencement dates, iii) completion dates and iv) authorized signature.)

At a minimum, the Sampling Plan shall include:

a) A description of the sample collection method(s) based on grab, flow-proportional composite or time-proportional composite methods.
b) Designate applicable requirements for batch and/or continuous discharges, including the release time.
c) If applicable, the sampler settings, such as pulse, time, sample volume; and
d) If applicable, description of the flow-measurement equipment and recording device(s).

2. Flow Meter (Section VI, Article VI-403)

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 method unless the Authority authorizes time-proportional sampling.

Where flow-proportional sampling method is 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, statistical data, or through equivalent methods, that the 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 (provide documentation for GLWA approval).

For installation of flow measuring equipment, a Compliance Schedule must be submitted regarding construction / installation period. In the interim, time-proportional sampling shall be used to collect samples until the flow measuring equipment is installed, calibrated and operated. The time available for this schedule shall not exceed 180 days following permit issuance.

(The Compliance Schedule consists of i) schedule of events, ii) commencement dates, iii) completion dates and iv) authorized signature to procure, install and operate the flow meter.

Sampling Location (SL)	Composite Sampling Method (Elect one only per SL)		
	Flow-Proportional Composite Sampling (Default EPA Requirement)	Time-Proportional Composite Sampling (Submit demonstration)	Flow Meter to be installed Submit a Compliance Schedule
SL 1	☐	☐	☐
SL 2	☐	☐	☐
SL 3	☐	☐	☐

If "Time-Proportional Composite Sampling" is/are marked above, attach your demonstration with this application for GLWA approval.

If "Flow Meter to be installed" is/are marked above, submit with this application your Compliance Schedule.

For **Flow Meter Information, complete also Section L.**

Section J: Wastewater Analytical Results and Analyses (For BMR and/or Permit Application)

1 Do you have any analytical results of your wastewater discharge? ☐ Yes ☐ No

If yes, please record your data below (in **mg/l**) and attach copies of the analytical results with this application. Where data is not available, you will be required to provide sampling results following notice of permit eligibility.

Arsenic		Cadmium		Chrome		Copper		Available Cyanide		Lead	
Mercury		Nickel		Silver		Zinc		Total PCB		Total Phenolic Compounds	
pH Acidity/Alkalinity		BOD		FOG		P		TSS		PFOS (see next page)	

2 Based on the analytical data provided, are pretreatment standards being met on a consistent basis? ☐ Yes ☐ No

If No, what additional operational and maintenance plans are under consideration to attain compliance? Describe the schedule of events, commencement dates and completion dates.

3	If you respond "Yes" to any items in Appendix B, the company is required to sample and analyze the following PFAS pollutants (Unit in parts per trillion or **ng/l** or nanogram/liter)					
1	11-Chloroeiosafluoro-3-oxaundecane-1-sulfonic acid	11	Perfluorobutanoic acid	21	Perfluorooctane sulfonamide	
2	2-N-Ethyl perfluorooctane sulfonamido acetic acid N-ethyl perfluorooctanesulfonamido-acetic acid)	12	Perfluorodecane Sulfonic acid	22	Perfluorooctane Sulfonic acid	
3	2-N-Methyl perfluorooctane sulfonamido acetic acid (N-methyl perfluorooctanesulfonamidoacetic acid)	13	Perfluorodecanoic acid	23	Perfluorooctanoic acid	
4	4,8-Dioxa-3H-perfluorononanoic acid	14	Perfluorododecanoic acid	24	Perfluoropentane Sulfonic acid	
5	4:2 Fluorotelomer sulfonic acid	15	Perfluoroheptane Sulfonic acid	25	Perfluoropentanoic acid	
6	6:2 Fluorotelomer sulfonic acid	16	Perfluoroheptanoic acid	26	Perfluorotetradecanoic acid	
7	8:2 Fluorotelomer sulfonic acid	17	Perfluorohexane Sulfonic acid	27	Perfluorotridecanoic acid	
8	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	18	Perfluorohexanoic acid	28	Perfluoroundecanoic acid	
9	Hexafluoropropylene oxide dimer acid	19	Perfluorononane Sulfonic acid			
10	Perfluorobutane Sulfonic acid	20	Perfluorononanoic acid			
	The above analytes shall be reported using US EPA Methods 537.1, 537.1 Rev 1.1, 8327 ASTM D7979 or other authorized Test Method.					
29	2H,2H,3H,3H-Perfluorohexanoic acid (3-Perfluoropropyl propanoic)	35	N-methyl perfluorooctanesulfnamidoethanol	41	Perfluorobutylsulfonamide	
30	2H,2H,3H,3H-Perfluorooctanoic acid	36	Nonafluoro-3,6-dioxaheptanoic acid	42	Perfluorododecanesulfonic acid	
31	2H,2H,3H,3H-Perfluorodecanoic acid (3-Perfluoroheptyl propanoic acid)	37	Perfluoro(2-ethoxyethane) sulfonic acid	43	Perfluorohexanesulfonamide	
32	N-ethyl perfluorooctanesulfonamide	38	Perfluoro-3-methoxypropanoic acid	44	Perfluoropropanesulfonic acid	
33	N-ethyl perfluorooctanesulfonamidoethanol	39	Perfluoro-4-(perfluoroethyl) cyclohexylsulfonic acid	45	Perfluoropropanoic acid	
34	N-methyl perfluorooctanesulfonamide	40	Perfluoro-4-methoxybutanoic acid			
	The above additional analytes shall be reported using US EPA Method 1633 or other authorized Test Method.					

Section K: Additional Requirements (For Permit Reapplication only)

1	Indicate if you intend to monitor for the Individual Phenolic Compounds or Total Phenolic Compounds (Elect one only)	☐ Elect to monitor Individual Phenolic Compounds	☐ Elect to monitor Total Phenolic Compounds
2	For facilities subject to Electroplating (40 CFR 413) and/or Metal Finishing (40 CFR 433), indicate whether your facility intends to submit every reporting period: Total Toxic Organic (TTO) Analysis or Toxic Organic Management Plan (TOMP) Certification. For TOMP Certification, the company can utilize the certification after the Authority reviewed and approved the renewed TOMP (with current and complete TTO analysis). (Elect one only)	☐ Elect to submit TTO analysis	☐ Elect to renew the TOMP and include current and complete TTO analysis (utilize TOMP Certification)

3 For facilities subject to Mass or Production-Based Standards, complete the following:

Processing Time (last 12 month operations): from _____ to _____

Materials Processed On-site	Amount Materials Processed / Month period*	Process Water Usage**
	/	
	/	
	/	
	/	

* - specify the amount materials processed with processing time and denote unit weight (e.g. pound, kg, tons, etc.) / month

** - specify the water usage corresponding with processing time and denote the unit (e.g. gallon, cubic feet)

Section L: Flow Meter and Water Meter Information

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	☐ Non-resettable	☐ Resettable (Not Accepted by GLWA)
Pulse/Volume		
Gallons/Pulse		

Flow Meter Information		
Model		
Serial Number		
Units		
Totalizer	☐ Non-resettable	☐ Resettable (Not Accepted by GLWA)
Pulse/Volume		
Gallons/Pulse		

For each Water Meter installed at your facility, provide the following information
(Add additional sheets as necessary). Indicate if "Fire only", etc..

Water Meter Information		
Community		
Wholesale Provider		
Water Meter ID #		
Account #		
Units		
Size		
Comment		

Water Meter Information		
Community		
Wholesale Provider		
Water Meter ID #		
Account #		
Units		
Size		
Comment		

Appendix A INDUSTRIAL PROCESSES

No.	PROCESSES	40 CFR Part	No.	PROCESSES	40 CFR Part
1	☐ Aluminum Forming	467	25	☐ Meat and Poultry Products	432
2	☐ Anodizing	413, 433	26	☐ Metal Finishing	433
3	☐ Battery Manufacturing	461	27	☐ Metal Molding & Casting	421, 464, 467,471
4	☐ Casting Operations	421, 464, 467, 471	28	☐ Metal Products & Machinery	438
5	☐ Centralized Waste Treatment	437	29	☐ Milling	413, 433
6	☐ Chemical Etching	413, 433	30	☐ Nonferrous Metals Forming & Metal Powders	471
7	☐ Coal Mining	434	31	☐ Nonferrous Metals Manufacturing I and II	421
8	☐ Coating	413, 433	32	☐ Ore Mining & Dressing	440
9	☐ Coil Coating	465	33	☐ Organic Chemicals, Plastics, & Synthetic Fibers	446
10	☐ Cold Rolling	420, 467, 468, 471	34	☐ Paint Formulating	446
11	☐ Copper Forming	468	35	☐ Paving & Roofing Materials (Tars & Asphalt)	443
12	☐ Drawing	420, 467, 468, 471	36	☐ Pesticide Chemicals Manufacturing	455
13	☐ Electrical & Electronic Components	469	37	☐ Petroleum Refining	419
14	☐ Electroless Plating	413, 433	38	☐ Pharmaceutical Manufacturing	439
15	☐ Electroplating	413, 433	39	☐ Plastic Molding & Forming	463
16	☐ Extruding	420, 467, 468, 471	40	☐ Porcelain Enameling	466
17	☐ Ferroalloy Manufacturing	424	41	☐ Printed Circuit Board Manufacturing	413
18	☐ Forging	420, 467, 468, 471	42	☐ Pulp, Paper, & Paperboard Mills	430
19	☐ Foundries	420, 421, 464	43	☐ Refining	421
20	☐ Hot Rolling	420, 467, 468, 471	44	☐ Smelting	421
21	☐ Inorganic Chemicals Manufacturing	415	45	☐ Soap & Detergent Manufacturing	417
22	☐ Iron & Steel Manufacturing	420	46	☐ Steam Electric Power Generation	423
23	☐ Landfills	445	47	☐ Timber Products Manufacturing	429
24	☐ Leather Tanning & Finishing	425	48	☐ Transportation Equipment Cleaning	442

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

In 2018, the State of Michigan, through the Michigan Department of Environment, Great Lakes and Energy (EGLE), required the GLWA to identify and determine the possible sources of Per- and Poly-Fluoroalkyl Substances (PFAS) within the GLWA 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.	☐ 1-5 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 firefighting 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 must sample and analyze the PFAS pollutants enumerated in Section J,3.

CHECKLIST: **Required Documentations to be included** with this application					**Attached?**
1	Section D,2	Copies of water bills for BMR or New Application			◯ Attached
2	Section E,3	Waste Manifests			◯ Attached
3	Section E,8	◯ Initial Notification ◯ Amended Notification	Listing of Hazardous Wastes (Refer to 40 CFR 261)		◯ Attached
4	Section E,9c	Compliance Schedule - Flammable & Combustible Substances			◯ Attached
5	Section E,10e	pH Monitoring Plan			◯ Attached
		Compliance Schedule - pH Monitoring Plan & Monitoring Requirements			◯ Attached
6	Section G	Wastewater Flow Schematic			◯ Attached
7	Section H	Facility Schematic/Drawing depicting the Sampling Location(s)			◯ Attached
8	Section I,1	Sampling Plan			◯ Attached
		Compliance Schedule - Sampling Plan			◯ Attached
9	Section I,2	Sampling Location (SL)	**SL#1**	**SL#2**	**SL#3**
		Demonstration for utilizing Time-Proportional Composite Sampling method	◯ Attached	◯ Attached	◯ Attached
		Compliance Schedule for Flow Meter Installation	◯ Attached	◯ Attached	◯ Attached
10	Section J,1	Wastewater Analysis for BMR or New Application			◯ Attached
11	Section J,3	PFAS Analysis (see Appendix B) for BMR or New Application		◯ Attached	◯ NA
12	Section K,2	Renew Toxic Organic Management Plan (TOMP) with current TTO Analysis			◯ Attached