

Section A. General Information

Business Name of Applicant

1

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

2	2 Mailing Address		***			
3	Name of Authorized Representative		***			
	Title			Telephone Number	***	
4	Project Sit	e Name	***			
	Project Ad	ldress	***			
5		he Site Owner t from applicant)	***			
6	Name of C	Consultant (if applicable)	***			
	Consultan	t Address	***			
7	Name of C	Contact Person	***			
	Title			Telephone Number	***	
	Email add	ress	***			
Sec	ction B. Si	ite Specific Information				
1	Source an	d type of pollutants at site (List a	activities and/or	sources which contributed to	o the site contar	nination)
	水水水					
2	Identify environmental regulations and/or licenses administered for this site. Give license number(s) and permit numbers(s). Also provide details about the site classification, if applicable.					

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

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	ection C. Wastewater Discharge							
1	Indicate the constituents that are or could be present in the wastewater							
	Ammonia	Oil and Grease	\bigcirc	Acids		\bigcirc	Flammable Substances	
	Pesticides	Detergents	\bigcirc	Caustics		\bigcirc	Solvents	
	PCBs	Heavy Metals	\bigcirc	Sulfides		\bigcirc	Radioactive Substances	
	Brine	Mud, Sand, Silt	\bigcirc	Other:				
2	Describe the method of discharging the wastewater from the site to the sewer system (above ground, in ground gravity flow, pressure flow, hose, pipe, channel etc.)				bove ground, in ground,			
		, p.p.s, c						
3	Describe the location of the proposed point of discharge (indicate also on site plan)							

4	Total estimated volume of the project	water to be discharged	over the	duration o	of	***	gallons	
5	Proposed duration of the	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 Table C - PFAS Pollutants) as this becomes mandatory due to the potential impacts on human health and impairments on fisheries.

Airfield			
Centralized Waste Treatment			
Chemical Manufacturing			
Electroplating and Metal Finishing			
(e.g. chrome plating)			
Historic Manufacturing/Industrial sites			
Industrial/Commercial Laundries			
Junk Yard / Scrap Metal Yard			
Landfills			

Leather Tanning and Processing						
Paint	Formulating					
Pape	r & Cardboard	d				
Refinery						
Site	Excavation,	Remediation	and			
Distu	Disturbance					
Transportation Equipment Cleaning						
Textiles						
Unknown sites						

Handle any of the following:			
Aboveground Storage Tank			
Aviation Fuel Storage			
Fire-Fighting Materials			
Fire Department Foam Response			
PFAS (see Table C)			
Photo Lithography / Photographic			
Coating			
Underground Storage Tank			

• If the site is listed in Table D – Non-Residential/Commercial Establishments, 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. For community with separate sanitary and stormwater system, discharge into the 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. For the City of Detroit.

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..
- 5 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, PFAS 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

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.

For project sites within the City of Detroit, please contact Detroit Water and Sewerage Department at www.detroitmi.gov/DWSDPermits for the required written approval.

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.

Table A: 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
Dichlorobromomethane or (Bromodichloromethane)	20 ppb	Dimethyl Phthalate	20 ppb
Ethylbenzene	20 ppb	Di-N-Butyl Phthalate	20 ppb
Methyl Bromide or (Bromomethane)	20 ppb	Di-N-Octyl Phthalate	20 ppb
Methyl Chloride or (Chloromethane)	20 ppb	Endosulfan sulfate	20 ppb
Methylene Chloride or (Dichloromethane)	20 ppb	Endrin	20 ppb
Tetrachloroethylene or (Tetrachloroethene)	20 ppb	Endrin Aldehyde	20 ppb
Toluene	20 ppb	Fluoranthene	20 ppb
Trichloroethylene or (Trichloroethene)	20 ppb	Fluorene	20 ppb
Vinyl Chloride or (Chloroethylene)	20 ppb	Gamma-BHC	20 ppb
Xylene	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)	t
4,4-DDT	+	PCB-1242 of (Arochlor 1242) PCB-1248 or (Arochlor 1248)	Non-detect*
! <u>`</u>	20 ppb	 	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		

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

Table B: 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

Table C: 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			
Hexafluoropropylene oxide dimer acid	HFPO-DA			
11-Chloroeiosafluoro-3-oxaundecane-1-sulfonic acid	11CI-PF3OUDS			
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	9CI-PF3ONS			
4,8-Dioxa-3H-perfluorononanoic acid	ADONA			

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

Table D: Non-Residential/Commercial Establishments

Mark	Sources/Business Type	Comments
0	Accounting Services	Auditing. Bookkeeping, CPA
0	Agencies	Booking, Entertainment, Personnel
0	Amusement and Recreation	Art galleries, Bowling alleys, Entertainment bazaar, Game rooms, Parks, Theater
0	Accommodation Places	Apartments, Bed & Breakfast, Condominium, Community houses, Cottages, Hotels,
	Accommodation Flaces	Inns, Motels
0	Appraisers	Automobile, Real estate
0	Athletic Fields	Arena, Stadium
0	Bank Institution	Credit Union, Financial Institution, Mortgage, Savings & Loans
0	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
0	Post Office	
0	Print Shop	Quick print shop
0	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, Trees), 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 only
0	Woodshops	