Northwestern Water and Sewer District

Sanitary Sewer Pretreatment Regulations

1.1.0 PROHIBITED DISCHARGES

1.1.1 No person(s) shall discharge or cause to be discharged any of the following described waters or wastes to any public sewer:

A. Any gasoline, benzene, naphtha, fuel oil, or other flammable or explosive liquid, solid, or gas.

B. Any waters containing toxic, poisonous, or malodorous solids, liquids, or gases in sufficient quantity, either singly or by interaction with other wastes, to injure or interfere with any waste treatment process, damage the treatment works, constitute a hazard to humans or animals, create a public nuisance, or create any hazard in the receiving waters of the wastewater treatment plant.

C. Any waters or wastes having a pH lower than 5.0 or higher than 10.0 or as otherwise required; or having any other corrosive property capable of causing damage or hazard to the treatment works and personnel of the treatment works.

D. Solid or viscous substances in quantities or of such size capable of causing obstruction to the flow in sewers; or chemical substances that may accumulate to cause obstruction to flow in sewers; or other interference with proper operation of the treatment works such as, but not limited to, ashes, bones, cinders, sand, mud, straw, shavings, metal, glass, rags, feathers, tar, plastic, wood, unground garbage, whole blood, paunch manure, hair and fleshings, entrails, or paper dishes, fish cleanings, etc., either whole or ground by garbage grinders.

1.2.0 LIMITED DISCHARGES

1.2.1 The following described substances, materials, waters, or wastes shall be limited in discharge to the public system from all users in concentrations or quantities which will not harm either the treatment works or wastewater treatment process; will not have an adverse effect on the receiving stream or collection system; will not otherwise endanger lives, limb, public property, or constitute a nuisance. The District Engineer may set limitations more severe than the limitations established in the regulations below, if in the District Engineer's opinion such increased limitations are necessary to meet the above objectives. In forming this opinion as to the acceptability, the District Engineer will give consideration to such factors as the quantity of subject waste in relation to flows and velocities in the sewers, materials of construction of the sewers, the wastewater treatment plant, and other pertinent factors.

The limitations or restrictions on material or characteristics of waste or wastewaters discharged to the treatment works which shall not be violated without approval of the District Engineer are as follows:

A. Wastewater having a temperature higher than 150 degrees Fahrenheit (65.25 degrees Celsius) at point of entrance to the public sanitary sewer.

B. Any garbage that has not been properly shredded.

C. Any wastes containing iron, chromium, magnesium, copper, zinc, and similar toxic wastes in concentrations which may interfere with the treatment works.

D. Any waters or wastes containing odor-producing substances exceeding limits which may be established by the District Engineer.

E. Any waters or wastes containing more than 150 mg/l of either soluble fats, oils, emulsions, or grease.

F. Any radioactive wastes or isotopes of such half-life or concentration as may exceed limits established by the District Engineer in compliance with applicable Federal or State regulations such as Section 307(a) of the Federal Clean Water Act or Section 3745-3 of the Ohio Administrative Code.

G. Quantities of flow, concentrations, or both which constitute a "slug" as defined herein. Any waste discharged into the public sewers which, in concentration of any given constituent, except pH, or in quantity of flow, exceeds 5 times the average concentration or flow rate for a normal operating day.

H. Waters or wastes containing substances which are not amenable to treatment or reduction by the wastewater treatment process employed, or are amenable to treatment only to such degree that the wastewater treatment plant effluent cannot meet the requirements of other agencies having jurisdiction over discharge to the receiving waters.

I. Any water or wastes which, by interaction with other water or wastes in the public sewer system, release obnoxious gases, form suspended solids which interfere with the public sewer, form precipitates in the collections system or create a condition deleterious to the treatment works and treatment process. The District Engineer shall require all discharges to conform to all NPDES permit requirements and any other in specified State or Federal regulations.

J. Any water or waters which produce a color which could interfere with the treatment process, analytical tests, or impart an unnatural color to the treatment plant's effluent.

K. Any substance which exerts a significant chlorine demand over a 30-minute test period. Limits of chlorine demand shall be established by the District Engineer.

L. Any substance containing BOD in excess of 180 mg/l (or COD in excess of 450 mg/l) or suspended solids of 250 mg/l shall be permitted.

M. In areas where sewer service is provided through the use of low pressure grinder pumping systems the district reserves the right to amend any of the aforementioned items to either more or less stringent requirements.

N. In instances where conflicting regulations exist the more stringent of them shall apply.

1.2.2 If any waters or waste are discharged or are proposed to be discharged to the public sewers which waters contain the substances or possess the characteristics enumerated in Section 1.1.1, and which in the judgment of the District Engineer, may interfere with, pass through, or otherwise be incompatible with the treatment works, wastewater treatment process, or receiving waters, or which otherwise create a hazard to life or constitute a public nuisance, the District Engineer may:

A. Reject the waste;

B. Require pretreatment to an acceptable condition for discharge to the public sanitary sewer.

C. Require control over the quantities and rates of discharge; and/or

D. Require payment to cover added cost of handling and treating the wastes not covered by existing sewer charges.

- The applicable surcharges will apply to wastes in excess of the normally permitted levels in mg/L and charged at a rate of $/lb:

Normally Permitted Flow Strengths (mg/L)		
Surcharge Item	**Permitted Strength (mg/L)**	**Charges ($/lb)**
BOD	180	See Current Rate Resolution
COD	450	See Current Rate Resolution
SS	240	See Current Rate Resolution
Phosphorus	10	See Current Rate Resolution
Grease	35	See Current Rate Resolution
Ammonia	50	See Current Rate Resolution

1.2.3 If the District Engineer permits the pretreatment or equalization of waste flows, the design and installation of the plants and equipment shall be subject to the review and approval of the District Engineer and the Ohio E.P.A. in accordance with the Ohio Revised Code, Section 6111. The property owner shall not commence construction of such facility until he has obtained such approvals in writing from the District Engineer, applicable treatment provider and appropriate State agencies.

1.2.4 Grease, oil, and sand separators shall be provided when, in the opinion of the District Engineer, they are necessary for the proper handling of liquid wastes containing grease, (as specified in Section 1.2.1 e), or any flammable wastes, sand, or other harmful ingredients; except that such separators shall not be required for private living quarters or dwelling units. All separators shall be of a type and capacity approved by the District Engineer and shall be located so as to be readily and easily accessible for cleaning and inspection.

1.2.5 Where grease, oil, and sand separators, pretreatment, or flow equalizing facilities are provided or required for any waters or wastes, they shall be maintained continuously in safe, satisfactory, and effective operation by the owner(s) at his/her expense. The scheduled pumping and waste disposal of the process byproducts is to be performed by a contractor licensed & approved by the local applicable regulatory agency such as the Wood County Health Department.

1.3.0 COMPLIANCE REQUIREMENTS

1.3.1 The District Engineer may require a user of sewer services to provide information needed to determine compliance with this Chapter. These requirements may include:

A. Wastewaters discharged at peak rate and volume over a specified time period.

B. Chemical analysis of wastewaters as per Standard Methods in accordance with 40 CFR 136, Federal and State regulations.

C. Information on raw materials, processes, and products affecting wastewater volume and quality.

D. Quantity and disposition of specific liquid sludge, oil, solvent, or other materials important to sewer use control.

E. Plans and specifications approved by a registered professional engineer of the user's property showing sewer and pretreatment facility details.

F. Details of wastewater pretreatment facilities.

G. Details of systems to prevent and control the losses of materials through spills to the municipal sewers.

H. Such other information as may be required by the District's relevant NPDES permit.

1.3.2 All contributing industrial users of the treatment facilities shall pretreat any pollutant in its wastewater which may interfere with, pass through, reduce the utility of processed sludge, or otherwise be incompatible with the treatment works. Pretreatment of such pollutants shall be in accordance with applicable Federal and State regulations, and as determined by the District Engineer. All owner(s) of any source to which pretreatment standards are applicable, shall be in compliance with such standards within the shortest reasonable time, but not later than the date of compliance required by 40 CFR 403 or the date established by the District Engineer, whichever first occurs. All owner(s) of any source to which pretreatment standards are applicable shall submit to the District Engineer semi-annual notices regarding specific actions taken to comply with such standards. Such notices shall be submitted on the first day of the months of April and October. Submissions are to include but not be limited to maintenance records for the pretreatment processes.

1.3.3 If any contributing industrial user proposes to pretreat its wastes, the design and installation of the plants and equipment shall be subject to the review and approval of the District Engineer, the applicable regulating treatment provider and any appropriate State agencies.

1.3.4 When required by the District Engineer, the owner(s) of any property serviced by a building sewer carrying industrial wastes shall install a suitable structure(s) together with such necessary meters and other appurtenances in the building sewer to facilitate observation, sampling, and measurement of the wastes. Such structures, when required, shall be accessible and safely located, and shall be constructed in accordance with plans approved by the District Engineer. The structure shall be installed by the owner(s) at his/her expense and shall be maintained by the owner(s) so as to be safe and accessible at all times. Following approval and installation, such meters may not be removed without the consent of the District Engineer.

1.3.5 If at any time the District believes that an owner is not within compliance of this policy after the compliance window has ended. The District reserves the right to sample said customers sanitary sewer effluent without prior notification. If the sampling presents findings not in compliance with this policy the District reserves the right to charge the owner for costs incurred in sampling and damages caused by said lack of compliance.

1.3.6 Within six (6) months of these regulations becoming effective, each person who discharges industrial wastes to a public sewer shall prepare and file with the District Engineer a report that shall include pertinent data relating to the quality and characteristics of the wastes discharged to the sewage works. Similarly, each person desiring to make a new connection to a public sewer for the purpose of discharging industrial wastes shall prepare and file with the District Engineer a report that shall include actual or predicted data relating to the quantity and characteristics of the waste to be discharged. Such report shall be filed prior to making any connection to the public sanitary sewer. (SEE APPLICATION FOR WASTEWATER CONTRIBUTION PERMIT)

1.3.7 In the event of an accidental spill or slug discharge of industrial waste to the treatment works, the industrial user shall notify the District Engineer or the Wastewater Treatment Plant Operator immediately. The District reserves the right to charge the owner for costs incurred and damages caused by said event.

Northwestern Water and Sewer District

APPLICATION FOR:

( ) 1. NEW WASTEWATER CONTRIBUTION PERMIT

( ) 2. RENEWAL OF WASTEWATER CONTRIBUTION PERMIT

THE FOLLOWING FACILITY HEREBY MAKES THIS APPLICATION FOR A WASTEWATER CONTRIBUTION PERMIT, IN ACCORDANCE WITH ALL TERMS AND CONDITIONS OF THE NORTHWESTERN WATER AND SEWER DISTRICT, SANITARY SEWER REGULATIONS, SECTION 1.1.0 THROUGH 1.3.7, AND ALSO WITH ANY APPLICABLE PROVISIONS COUNTY, STATE, OR FEDERAL LAWS OR REGULATIONS.

FACILITY NAME_____

FACILITY LOCATION_____

NAME OF FACILITY REPRESENTATIVE_____

TITLE_____

SIGNATURE OF AUTHORIZED FACILITY REPRESENTATIVE

_____

Northwestern Water and Sewer District

Industrial User Pretreatment Survey

Note to Signing Official: In accordance with Title 40 of the code of Federal Regulations Part 403 Section 403.14, information and data provided in this questionnaire which identifies the nature and frequency of discharge shall be available to the public without restriction. Requests for confidential treatment of information shall be governed by procedures specified in the Northwestern Water and Sewer District, Public Records Policy.

SECTION A. GENERAL INFORMATION

1. Company Name _____

2. Mailing Address _____ Zip Code _____

3. Premise Address _____ Zip Code _____

4. Name and Title of Signing Official _____

5. Person to contact concerning information provided herein:

   Name & Title _____ Phone _____

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein. I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information, including the possibility of fine and/or imprisonment.

_____ _____

Date Signature of Official
(Seal if applicable)

SECTION B. PRODUCT OR SERVICE INFORMATION

1. Brief narrative description of manufacturing or service activity at premise address:

   _____

   _____

2. Principal Raw Material Used: _____

3. Process Catalysts Used: _____

4. Principal Products or Service: _____

5. Standard Industrial Classification Code(s) (SIC) for all processes:

   _____

   _____

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. Are major processes batch or continuous?

_____

Average number of batches per 24-hour day: _____

2. Are your processes subject to seasonal variation? _____

If yes, explain indicating month(s) of peak operation and products: _____

_____

3. Shift Information: a. Number of shifts per workday _____

b. Number of workdays per week _____

c. Average number of Employees per shift:

1st _____
2nd _____
3rd _____

Total _____

d. Shift start times:

1st _____
2nd _____
3rd _____

4. Describe any wastewater treatment equipment or processes in use:

_____

5. Describe any raw water treatment processes utilized: _____

_____

6. Describe any water recycling or material reclaiming processes utilized: _____

_____

7. Is a Spill Prevention Control and Countermeasure Plan prepared for the facility?

Yes _____ No _____

SECTION D. WATER CONSUMPTION AND LOSS

1. Raw water source (city, county, other explain): _____

2. List past twelve months water usage from water bills:

a. 1st 6 month period, 20_____

_____Ccf

b. 2nd 6 month period, 20_____

_____Ccf

c. Volume from other sources:_____gallons per day

SECTION D. WATER CONSUMPTION AND LOSS (CONTINUED)

3. List water consumption within the plant:

	Type	Estimated Average Volume (gallons per day)
a.	Cooling Water	_____
b.	Boiler Feed	_____
c.	Process	_____
d.	Sanitary System	_____ gals. _____ employees/day
e.	Other ( )	_____

4. List average volume of discharge or water losses to:

	Outlet	Estimated Average Discharge (gallons per day)
a.	Municipal Sewer	_____
b.	Natural	_____
c.	Waste Haulers	_____
d.	Evaporation	_____
e.	Contained in Product	_____

Note: Water consumption should equal water discharged or lost.

5. List average water usage for SIC Processes itemized in Section B-5 above:

SIC No	Brief Process Description	Average Water Consumption (GPD)
_____	_____	_____
_____	_____	_____
_____	_____	_____

SECTION E. SEWER CONNECTION AND DISCHARGE INFORMATION

1. List plant sewer outlets, size and flow (assign sequential reference number to each sewer starting with No. 1).

Reference No.	Sewer Size (Inches)	Descriptive location of sewer connection or discharge point	Avg. Flow GPD
_____	_____	_____	_____
_____	_____	_____	_____

SECTION E. SEWER CONNECTION AND DISCHARGE INFORMATION (CONTINUED)

2. Attach a scaled drawing of the industrial complex showing location of sewer referenced in E-1 above and location of the SIC process described in Section D-5. Show location of possible sampling points for sewers and SIC process effluents. Also indicate chemical and waste chemical storage areas. For reference and field orientation buildings, streets, alleys and other pertinent physical structures should be included.

SECTION F. PRIORITY POLLUTANT INFORMATION

1. Please indicate by placing an "X" in the appropriate box each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity or generated as a byproduct. Some compounds are known by other names.

ITEM NO.	CHEMICAL COMPOUND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT	ITEM NO.	CHEMICAL COMPUOND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT
1.	ammonia					55.	chrysene				
2.	asbestos (fibrous)					56.	4, 4'-DDD				
3.	cyanide (total)					57.	4, 4'-DDE				
4.	antimony (total)					58.	4, 4'-DDT				
5.	arsenic (total)					59.	dibenzo (a,h) anthracene				
6.	beryllium (total)					60.	dibromochloromethane				
7.	cadmium (total)					61.	1,2-dichlorobenzene				
8.	chromium (total)					62.	1,3-dichlorobenzene				
9.	copper (total)					63.	1,4-dichlorobenzene				
10.	lead (total)					64.	3,3-dichlorobenzidine				
11.	mercury (total)					65.	dichlorodifluoromethane				
12.	nickel (total)					66.	1,1-dichloroethane				
13.	selenium (total)					67.	1,2-dichloroethane				
14.	silver (total)					68.	1,1-dichloroethene				
15.	thallium (total)					69.	trans-1,2-dichloroethene				
16.	zinc (total)					70.	2,4-dichlorophenol				
17.	acenaphthene					71.	1,2-dichloropropane				
18.	acenaphthylene					72.	(cis & trans)1,3-dichloropropene				
19.	acrolein					73.	dieldrin				
20.	acrylonitrile					74.	diethyl phthalate				
21.	aldrin					75.	2,4-dimethylphenol				
22.	anthracene					76.	dimethyl phthalate				
23.	benzene					77.	di-n-butyl phthalate				
24.	benzidine					78.	di-n-octyl phthalate				
25.	benzo(a)anthracene					79.	4,6-dinitro-2-methylphenol				
26.	benzo(a)pyrene					80.	2,4-dinitrophenol				
27.	benzo(b)fluoranthene					81.	2,4-dinitrotoluene				
28.	benzo(g,h,i)perylene					82.	2,6-dinitrotoluene				
29.	benzo(k)fluoranthene					83.	1,2-diphenylhydrazine				
30.	a-BHC (alpha)					84.	endosulfan I.				
31.	b-BHC (beta)					85.	endosulfan II				
32.	d-BHC (delta)					86.	endosulfan sulfate				
33.	g-BHC (gamma)					87.	endrin				
34.	bis (2-chloroethly)ether					88.	endrin aldehyde				
35.	bis (2-chloroethoxy) methane					89.	ethylhenzene				
36.	bis (2-chloroisopropyl) ether					90.	fluoranthene				
37.	bis (chloromethyl) ether					91.	fluorene				
38.	bis (2-ethylhexyl) phthalate					92.	heptachlor				
39.	bromodichloromethane					93.	heptachlor epoxide				
40.	bromoform					94.	hexachlorobenzene				
41.	bromomethane					95.	hexachlorobutadiene				
42.	4-bromophenylphenyl ether					96.	hexachlorocyclopentadiene				
43.	butylbenzyl phthalate					97.	hexachloroethane				
44.	carbon tetrachloride					98.	indeno(1,2,3-cd)pyrene				
45.	chlordane					99.	isophorone				
46.	4-chloro-3-methylphenol					100.	methylene chloride				
47.	chlorobenzene					101.	naphthalene				
48.	chloroethane					102.	nitrobenzene				
49.	2-chloroethylvinyl ether					103.	2-nitrophenol				
50.	chloroform					104.	4-nitrophenol				
51.	chloromethane					105.	n-nitrosodimethylamine				
52.	2-chloronaphthalene					106.	n-nitrosodipropylamine				
53.	2-chlorophenol					107.	n-nitrosodiphenylamine				
54.	4-chlorophenylphenyl ether					108.	PCB-1016				

SECTION F. PRIORITY POLLUTANT INFORMATION (CONTNINUED)

ITEM NO.	CHEMICAL COMPOUND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT	ITEM NO.	CHEMICAL COMPUOND	SUSPECTED ABSENT	KNOWN ABSENT	SUSPECTED PRESENT	KNOWN PRESENT
109.	PCB-1221					128.	trichlorofluoromethane				
110.	PCB-1232					129.	2,4,6-trichlorophenol				
111.	PCB-1242					130.	vinyl chloride				
112.	PCB-1248										
113.	PCB-1254										
114.	PCB-1260										
115.	pentachlorophenol										
116.	phenanthrene										
117.	phenol										
118.	pyrene										
119.	2,3,7,8-tetrachlorodibenzo-p-dioxin										
120.	1,1,2,2-tetrachloroethane										
121.	tetrachloroethene										
122.	toluene										
123.	toxaphene										
124.	1,2,4-trichlorobenzene										
125.	1,1,1-trichloroethane										
126.	1,1,2-trichloroethane										
127.	trichloroethene										

2. For chemical compounds in F-1 above which are indicated to be "Known Present", please list and provide the following data for each: (attach additional sheets if needed).

ITEM NO.	CHEMICAL COMPOUND	ANNUAL USAGE (LBS)	ESTIMATED LOSS TO SEWER (LBS/YR)	ITEM NO.	CHEMICAL COMPUOND	ANNUAL USAGE (LBS)	ESTIMATED LOSS TO SEWER (LBS/YR)