APR 22 1981

OFFICE OF ENFORCEMENT

MEMORANDUM

SUBJECT: NPDES Industrial Permit Reclassification: Implementation of the New Major Permit List and Description of the Procedures Used to Add To and Delete Permits From the List

TO: Regional Enforcement Division Directors

FROM: R. Sarah Compton
Deputy Assistant Administrator
for Water Enforcement and Permits (EN-335)

The purpose of this memorandum is threefold. The first purpose is to provide each Region a description of the procedure which should be used to add or delete permits from the list of permits which have been rated under the industrial permit reclassification rating system. The second purpose of the memorandum is to explain the difference between the new majors list which is used for permitting purposes and the old majors list which is used for compliance and enforcement purposes. The process of integrating these two lists will also be described. Finally, I want to bring to your attention again the importance of setting priorities for the issuance of the next round of industrial permits.

1. Additions and Deletions Procedure

The Permits Division completed the initial reclassification of NPDES industrial permits in December 1980. The reclassification procedure established a uniform definition of a major industrial permit. We now should ensure that this list accurately reflects the permitting workload of each Region and each NPDES State. To do this and to keep the list current and dynamic, we are implementing a semi-annual additions and deletions procedure.

A list of the permits which were classified major during the initial reclassification was sent to each Region in a memorandum dated March 3, 1981 from J. William Jordan, Chief, Industrial Permits Branch, to the Regional Permits Branch Chiefs. The list included all industrial permits which rated 80 points or higher under the new rating system. It also included the regionally selected "discretionary addition" major permits, artificially rated 500 points or higher. During the State-EPA NPDES Program meetings last January and February, certain discrepancies and errors in this

list were pointed out by both the States and the Regions. These inconsistencies need to be corrected through the additions and deletions procedure.

The procedure for adding NPDES industrial permits to and deleting NPDES industrial permits from the major permits list is outlined in Attachment 1. Basically, this will consist of a semi-annual update to be conducted on October 1st and April 1st of each year. For this first update, however, the procedure will begin on June 1, 1981. After this, the procedure will revert to the normal schedule. It provides a nationally consistent mechanism for adding and deleting permits to the majors list as certain permits change their discharge characteristics and thus change their classification status. We are encouraging each Region and each State to update their majors list, particularly during this first round of additions and deletions.

The attached rating sheet and rating instructions (Attachment 2) should be used in this procedure. There are two changes which have been made to this rating sheet: 1) on page 1 there are spaces for designating a permit as a "discretionary addition" (a discretionary addition is a permit which is designated a major discharger regardless of its point total), a "regular" addition, a deletion, or ceased discharge; and 2) on page 4 there is a space for marking the permit's previously assigned point total, if any.

The numerical rating procedure will be the same as the original procedure undertaken by the contractor, JRB Associates, during 1980. Of course, the addition to and deletion from the majors list is contingent on the point total derived from the new rating. A permit must attain a rating of 80 points or higher to be classified a major permit. Discretionary additions are not subject to this point total contingency but a rating sheet must be filled out for them. As an identifying marker, all discretionary additions should be assigned an additional 500 points by the Region. Each Region should maintain 20 permits plus 5 percent of their non-discretionary major permits as discretionary additions. All changes will be reviewed by the Office of Water Enforcement and Permits (OWEP).

Please ensure that any changes to the list recommended by your State or Regional permit offices are fully coordinated between the permits office and compliance/enforcement offices within your Region.

II. Integration of "New" Majors and "Old" Majors

As a result of the major/minor reclassification effort, approximately 1,900 permittees that were formerly "minors" will become new majors. Because an immediate changeover to these new majors would be very disruptive to ongoing compliance and enforcement programs, a phased approach will be taken.

:w ajors initially will be majors for permitting
.l Once a new permit with a rating of 80 points or
ed, however, it will be added to a final majors
rmittee will then become a major for compliance and
purposes as well. "Old" majors will be deleted from
list as new majors are added. However, only those old
ompliance will be deleted. This phased process will
he next two years.

ch 1983 all existing data on permittees on the new
will be coded into PCS II. At that time the new
will become the only majors list. Compliance and
priorities will be established from that list of
regardless of the status of the new permit issuance

re information regarding this procedure contact
Chief, Compliance Branch, at 8/755-0994.

ity Permit Issuance Lists

stributed priority permit issuance lists in draft
h Region and State at the recent State-EPA NPDES
t s to stimulate your thinking as to what permits we
ng and when. The primary purpose of establishing
t issuance lists was to aid in planning the next
trial permit issuance.

ourage each Region and State to review our initial
suance lists and develop a list which reflects a similar
d permit issuance strategy. As a basic component of
ment of permit issuance priorities, we have enclosed a
estimated effluent limitation guideline promulgation
chment 3). This schedule is the best estimate by
idelines Division of the dates final BAT effluent
will be available for permitting purposes. This
s prepared in preparation for the current Congressional
ons Committee Hearings. You should know that final
will be very late or not promulgated at all for the
ndustrial categories: Organic Chemicals, Plastics and
Pesticides, and Pharmaceuticals.

tes listed in Attachment 3 should assist in the
of a nationally consistent priority permit issuance
ong the lines of OWEP's original priority issuance
ultimate goal of these priority issuance lists will
a nationally consistent schedule of permit
at takes advantage of promulgated effluent guidelines
suance technical support from OWEP's industry teams,
, and technical guidance manuals.

s included on these priority lists should be "new"
e you and the States in your Region have developed

Please give each NPDES State in your Region a copy of this memorandum. If you have any questions regarding this procedure, please call me (8/755-0440) or have your staff contact Rick Brandes in the Permits Division (8/426-7010).

Attachments

cc: Director, Permits Division (OWEP)
Director, Enforcement Division (OWEP)
Director, NEIC
Regional Permit Branch Chiefs

Semi-Annual Additions and Deletions Procedure

Step 1:

During the year, each Region maintains a file of any permits which change the nature of their discharge in such a way as to affect the classification of the permit under the major industrial permit classification system. Examples of such changes include process changes, installing new treatment systems, new sources, etc.

These permits should be rated by filling out the attached rating sheet for each permit. If there is an existing rating sheet from the previous reclassification, fill out a new rating sheet. It is necessary to do this only for permits which are expected to change their major/minor status.

Step 2:

Permit rating sheets which will change major/minor status should be submitted to the Director, Permits Division, Office of Water Enforcement and Permits (EN-336) along with a list of the permits by NPDES number, permit name, and point total. Any change to the regionally selected discretionary additions should be included in these materials. Along with the list of additions and deletions to the new industrial majors list, a list of "old" majors to be deleted should also be submitted. The permittees to be deleted must be in compliance. If they are not, they will remain on the list until steps are taken to bring them into compliance.

These submittals should be sent in March and September. The cutoff dates for acceptance of submittals will be April 1st and October 1st. An example of the list of permits is provided below. A copy of the revised rating sheet should be kept in the Region's permit file.

Step 3:

These lists will be reviewed by OWEP and then loaded into the minicomputer at NEIC. A duplicate copy of the old listing will be kept on file. A new list will be generated incorporating the additions and deletions and any changes to the Regional discretionary additions.

Step 4:

The new listing will be loaded into the PCS file. All permits with point totals of 080 or greater are designated major dischargers. These permits can be retrieved from the PCS file by using the indicator "MRAT" (major rating).

If a sufficient number of changes accrue such that the Region should change the number of the allotted discretionary additions, the Region will be advised to increase or decrease their discretionary additions accordingly, by the Director, Permits Division (OWEP).

Example of Semi-Annual Regional Submittal of Additions and Deletions to the Major Discharger List

I. Additions and Deletions of "New" Majors

Additions

NPDES No.	Title	Old Rating	New Rating	
A 0000000	ABC Corp.	45	100	
PA 0000000	ABC Corp.	55	95	
AL 0000000	ABC Corp.	25	110	
WA 0000000	ABC Corp.	0	100	(New Source)
KS 0000000	ABC Corp	10	510	(Discretionary Addition)

Deletions

NPDES No.	Title	Old Rating	New Rating	
NY 0000000	XYZ Corp.	100	50	
WI 0000000	XYZ Corp.	95	35	
KS 0000000	XYZ Corp.	110	0	(Ceased disch.)
TX 0000000	XYZ Corp	510	10	

II. Deletions of "Old" Majors

NPDES No.	Title
IA0000000	ABC Corp
`A0000000	ABC Corp
A0000000	ABC Corp

NPDES PERMIT RATING WORKSHEET

AND RATING INSTRUCTIONS

NPDES Permit No. |_|_|_|_|_|_|_|_|_|

Facility Name |_____|

City |_____|

Receiving Water Segment (If Designated) _____

Water Quality Limiting |_| Yes |_| No
In Compliance With Water Quality Standards |_| Yes |_| No
Public Water Supply |_| Yes |_| No

Current Classification Status |1|____ Major |_| Status Code
|2|____ Minor

1. Toxic Pollutant Potential

PCS SIC Code |_|_|_|_| Primary SIC Code |_|_|_|_|
Other SIC Codes |_|_|_|_| |_|_|_|_| |_|_|_|_|
Industrial Subcategory Used _____
Industrial Subcategory Code |_|_| (Code 00 if no subcategory)

Toxicity Group = |1|____ I (00 points)
|2|____ II (10 points)
|3|____ III (20 points)
|4|____ IV (30 points)
|5|____ V (40 points)
|6|____ VI (50 points)

A. Toxic Pollutants Points = ___

|_| Toxicity Group Code

2. Flow/Streamflow Volume

Wastewater Type

Type I	|11|____	Flow < 5 mgd	(00 points)
	|12|____	Flow 5 to 10 mgd	(10 points)
	|13|____	Flow > 10 to 50 mgd	(20 points)
	|14|____	Flow > 50 mgd	(30 points)
Type II	|21|____	Flow < 1 mgd	(10 points)
	|22|____	Flow 1 to 5 mgd	(20 points)
	|23|____	Flow > 5 to 10 mgd	(30 points)
	|24|____	Flow > 10 mgd	(50 points)
Type III	|31|____	Flow < 1 mgd	(00 points
	|32|____	Flow 1 to 5 mgd	(10 points)
	|33|____	Flow > 5 to 10 mgd	(20 points)
	|34|____	Flow > 10 mgd	(30 points)

Flow Points = ___

Alternate - Wastewater/Stream Flow Ratio

|__|__| Alternate Code Checked on Optional Worksheet (Code 99 if not used)

Alternate Points = ____

B. Wastewater Flow Points (Larger of Flow Points or Alternate) = ____

3. Traditional Pollutants

BOD or _____*

Daily Average Load = |1|_____ < 100 lb/day (00 points)
|2|_____ 100 to 1000 lb/day (10 points)
|3|_____ > 1000 to 3000 lb/day (20 points)
|4|_____ > 3000 lb/day (30 points)

|_| BOD Code

COD

Daily Average Load = |1|_____ < 100 lb/day (00 points)
|2|_____ 100 to 1000 lb/day (10 points)
|3|_____ > 1000 to 5000 lb/day (20 points)
|4|_____ > 5000 lb/day (30 points)

|_| COD Code

Oxygen Demand Points (Larger of BOD or COD Points) = ____

* Insert any alternate oxygen demand parameter used.

TSS

Daily Average Load = |1|_____ < 100 lb/day (00 points)
|2|_____ 100 to 1000 lb/day (10 points)
|3|_____ > 1000 to 5000 lb/day (20 points)
|4|_____ > 5000 lb/day (30 points)

|_| TSS Code

TSS Points = ____

Ammonia or _____**

Daily Average Load (As NH_4-N) = |1|_____ < 300 lb/day (00 points)
|2|_____ 300 to 1000 lb/day (10 points)
|3|_____ > 1000 to 3000 lb/day (20 points)
|4|_____ > 3000 lb/day (30 points)

|_| Ammonia Code

Ammonia Points = ____

** Insert any alternate nitrogen parameter used

Temperature (Heat Load)

(Compute only for flows > 10 mgd and when temperature limits are specified in the permit).

|9|____ Not Computed

erature Differential (T) - Permit Limits (Max. Temp.) - 70°

Heat Load = Cooling Water Flow (mgd) x T x 0.00834

= _____ x _____ x 0.00834 = _____ billion BTU

Heat Load = |1|____ < 4 billion BTU (00 points)
|2|____ 4 to 10 billion BTU (10 points)
|3|____ > 10 billion BTU (20 points)

|_| Heat Load Code

Heat Load Points = ____

C. Total Traditional Pollutant Points = _____
(Sum of Oxygen Demand, TSS, Ammonia and Heat Load Points)

4. Potential Public Health Impacts

Is the receiving water to which wastewater is discharged or a water body to which it is tributary used for a municipal water supply within 50 miles downstream?

|1|____ No (0 points)
|2|____ Yes

Toxicity Group

_____ I, II or III (00 points)
_____ IV (10 points)
_____ V (20 points)
_____ VI (30 points)

|_| Public Health Code

D. Public Health Points = _____

5. Water Quality Factors

Have (or will) one or more of the effluent limitations assigned to the discharge been based on water quality factors in the receiving stream rather than technology or effluent guidelines or has a wasteload allocation been assigned to the discharge? Alternately, has the receiving water been designated as water quality limiting?

|1|____ Yes (15 points)
|2|____ No (00 points)

|_| Water Quality Limiting Code

Is the receiving water in compliance with applicable water quality standards?

|1|_____ Yes (00 points)
|2|_____ No (10 points)

|_| Water Quality Standards Code

E. Total Water Quality Points = (Sum of Water Quality Limiting and Water Quality Standards Points) _____

6. Total Permit Rating Points

Add Toxic Pollutant Points (A) + Wastewater Flow Points (B) + Traditional Pollutant Points (C) + Public Health Points (D) + Water Quality Points (E)

NOTE: If permit is a discretionary addition, add 500 points to tota

TOTAL RATING POINTS ASSIGNED TO THE PERMIT = |_____|

Total Rating Points Previously Assigned to the Permit (if any) = ___

7. Processing Record

PCS information recorded by _____ Date _____
Permit application data recorded by _____ Date _____
Permit data recorded by _____ Date _____
Public water supply determination by _____ Date _____
Water quality determination by _____ Date _____
Coding entered in the computer by _____ Date _____
Errors revised by _____ Date _____
Corrected coding in computer by _____ Date _____

8. Permit Expiration Date _____

INSTRUCTIONS FOR COMPLETING NPDES PERMIT RATING WORKSHEET*

1. From the PCS list of permits to be reviewed (or other list provided by the Regional Office), fill in the NPDES No., the facility name and the city in the indicated boxes at the top of the worksheet. Skip the receiving water blanks for now. Check the appropriate permit classification (major or minor) and enter the code checked (1 or 2) in the Status Code box. Enter the SIC code from the PCS list in the 4-digit box indicated. If no SIC code is given in the PCS list, code 9999.

2. Locate the most recent permit application in the permit file (In some Regions, two files are maintained, a permit file and a compliance file). This will usually be Standard Form C - Manufacturing and Commercial. In some cases, you may need to work with the old 1971 Refuse Act Permit Program (Corps of Engineers) applications that are similar in content but are formatted slightly different. Short Forms C and D may also be encountered for small facilities.

3. Determine what SIC codes are assigned to the facility covered by the permit. This will usually be on page II-3 of Form C. If the facility has more than one outfall, there will be a Section II for each outfall. When multiple SIC codes are assigned, select the one that appears to represent the primary activity at the facility and enter it in the primary SIC code box. Then enter up to three other SIC codes in the indicated boxes selecting those that appear most significant if more than four have been reported (this will be rare). The activity descriptions at the top of page II-3 and the description of the nature of the business in Item 6, page I-2 should assist you in these selections. In most cases, only one SIC code will be assigned and it will be the same as the PCS SIC code.

4. Using the primary SIC code, search Table 1 of these instructions to determine if there are industrial subcategories for that SIC code. If not, there will be a single entry in Table 1 for that SIC code or no entry. If there are subcategories (indicated by multiple entries for one SIC code), select the subcategory that best corresponds to the activity descriptions reviewed under instruction No. 3 above. The product list at the bottom of page II-3 may be a help here. Note the subcategory code (00 for no subcategory) and toxicity group in Table I corresponding to the primary SIC code and industrial subcategory selected. All SIC codes not in Table I are given a 00 subcategory code and a toxicity group I.

5. Repeat instruction No. 4 for each of the other SIC codes recorded.

*These instructions are written for older permit forms and do not include instructions relating to the new application forms (i.e. Form 2C). Revisions to these instructions which do include revised permit forms will be available shortly.

6. Select the industrial subcategory for the SIC code that has the highest toxicity group. Record the subcategory title in the indicated blank on the worksheet and the subcategory code in the code box. Then check the appropriate toxicity group blank, record the corresponding code in the toxicity group code box, and record the toxicity group points in the Toxic Pollutant Points blank.

7. If no SIC code has been listed in the permit application, use the PCS SIC code for instructions Nos. 4 and 6. If no PCS SIC code is given, use Table 2 and the information on facility activities given in the permit application to attempt to assign an SIC code. If this doesn't work, code 9999 for the primary SIC code.

8. Determine the wastewater type (I, II or III) based on the relative volumes of non-contact cooling waters, process wastewaters and other wastewaters in the total combined discharge from the facility.

Non-contact cooling waters are once-through cooling only and do not include blowdown from cooling towers and recirculating cooling systems.

Process wastewaters include wastewaters resulting from most manufacturing processes, contact cooling water that contacts products, and contaminated surface runoff.

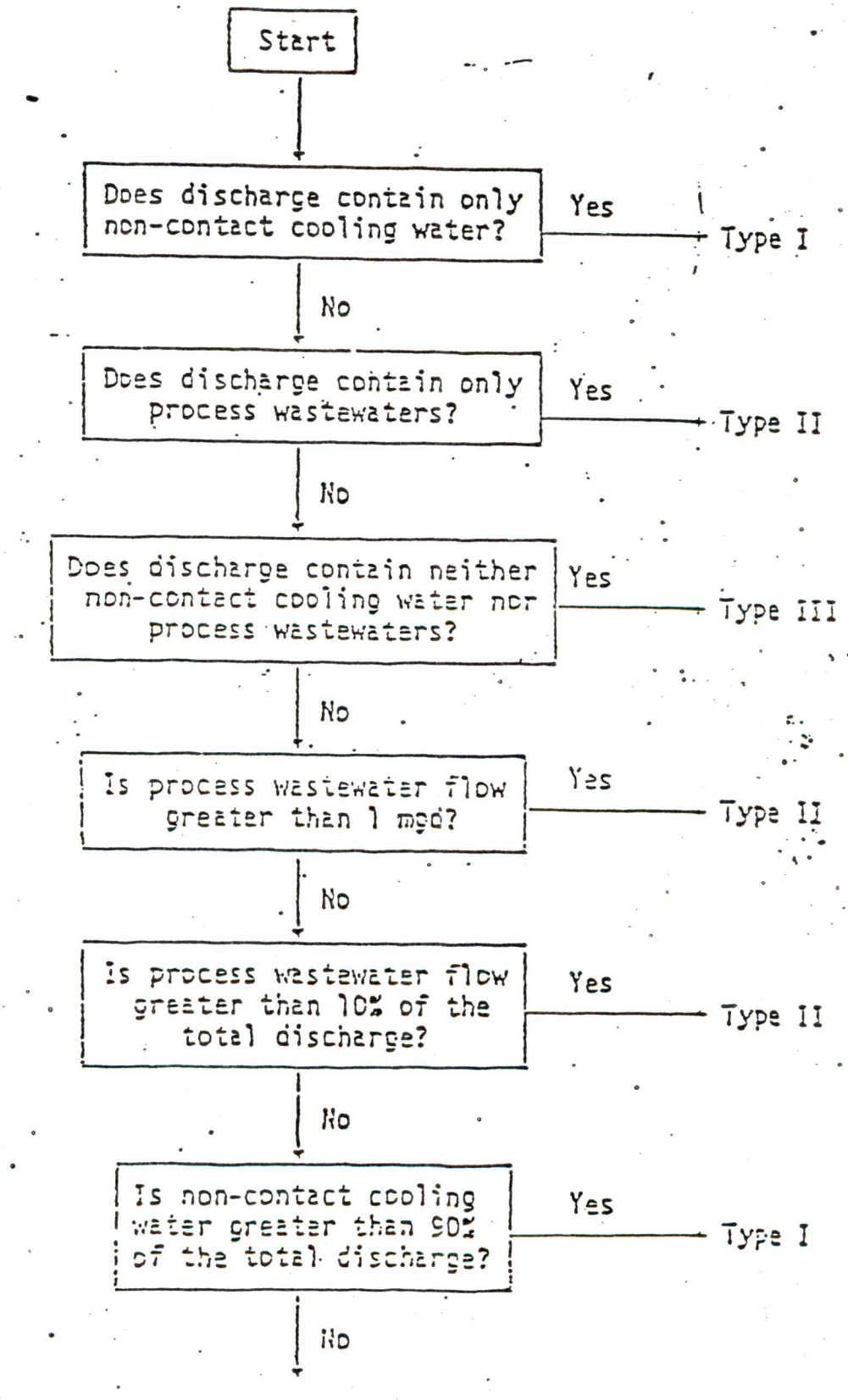
Other wastewaters include boiler blowdown, blowdown from cooling towers and recirculating cooling systems, sanitary wastewater and relatively uncontaminated surface runoff.

The relative volumes of different wastewaters discharged can usually be determined from pages I-2 (Item 8), I-3 (Item 9) and II-4 (one for each outfall). A flow diagram may also be included with the application.

Use Figure 1 to determine the wastewater type. If the entire discharge is non-contact cooling water, it is Type I. If it is all process wastewaters, it is Type II. If it is neither non-contact cooling water or process wastewater, it is Type III. If the flow contains more than 1 mgd of process wastewater or more than 10% process wastewater, it is Type II. If the flow is predominantly non-contact cooling water (more than 90%) and contains less than 1 mgd of process wastewaters, it is Type I.

Once the wastewater type has been determined, compute the total me of wastewater discharged for all outfalls, This is the sum of the ly average discharges for each outfall shown in column 3 on each page -6. The sum should approximate the volume discharged to surface water listed at the top of page I-3.

Figure 1
Wastewater Type Selection Flow Diagram



On the worksheet under the type wastewater selected, check the appropriate flow range. Although a facility may discharge some of any or all of the three types of wastewater, only one flow range and type should be checked representing the composite of all flows. Record the two-digit flow code checked in the code box and the associated points in the Flow Points blank.

9. For a few selected facilities, the volume of wastewater discharged may be large relative to low flows in the receiving water. In these cases, the Region may elect to make an alternate computation of flow points on a supplemental worksheet. If a completed supplemental worksheet is provided, insert the appropriate code in the alternate code box and associated points in the Alternate Points blank. Otherwise, code 99 in the alternate code box. Then code the larger of the flow points or alternate points in the wastewater flow points blank.

10. The receiving water for each discharge is ususally listed in Item 7 on page II-2 for each outfall. If all outfalls discharge to the same receiving water, record its name in the blank near the top of the front page on the worksheet. If more than one receiving water is named, check the map that usually accompanies the application to see if all are tributary to one main stream. If so, use the main stream name. If not, use the stream name that receives the major flow volume and/or the process wastewaters (if any). If any stream subdivision, reach or segment is indicated, also record its designation. If the receiving water is not indicated in the application, it may be shown on the front page of the permit.

11. Data on traditional pollutants are obtained from the NPDES permit. This may be present in the permit and/or compliance files. Review the permit to see what traditional pollutants (BOD, COD, TSS, Ammonia and Temperature) are limited. Traditional pollutant loads are to be computed only when they are limited by the permit. Be sure and use the current limits as permits often contain two or more sets of limits for each outfall, only one of which is currently in effect.

12. Add the daily average BOD limits for all outfalls for which BOD is limited. If an alternate oxygen demand parameter such as TOC or UOD is used instead of BOD, compute the load in the same manner as BOD, and show the parameter used in the blank following BOD. Most effluent limits specify loads in kilograms or pounds per day. However, they may sometimes be given in concentration units (usually mg/l) or in loads per production unit such as kg BOD/1000 kg of product. In such cases, the discharge must be converted to loads in terms of pounds per day using standard conversion factors and flow and/or production data from the application or the discharge monitoring reports (DMR's). When the BOD load has been computed, check the appropriate load range and enter the corresponding code in the BOD code box.

Optional NPDES Permit Rating Worksheet
Alternate Wastewater/Stream Flow Ratio Criteria

NPDES No. _____

Total Wastewater Flow _____ (mgd)

Type Wastewater (I, II or III) _____

Streamflow (7-day low flow occurring once in 10 years)
_____ (cfs) _____ (mgd)

Wastewater flow / stream flow ratio _____

Determine the above data from the NPDES permit rating worksheet and from streamflow data. Compute the wastewater flow / stream flow ratio. Check the appropriate blank below, record the code checked in the code box and record the points checked in the Alternate Points blank. Then transfer the Alternate Code and Alternate Points to page 2 of the NPDES Permit Rating Worksheet:

Wastewater Type

Type I or III

41	_____	Flow <1 mgd (00 points)
42	_____	Flow >1 mgd and >10% of receiving water low flow (10 points)
43	_____	Flow >1 mgd and >50% of receiving water low flow (20 points)

Type II

51	_____	Flow <0.5 mgd (00 points)
52	_____	Flow >0.5 mgd and >10% of receiving water low flow (20 points)
53	_____	Flow >0.5 mgd and >50% of receiving water low flow (30 points)

[ ] Alternate Code Checked

_____ Alternate Points

F1

13. Determine the COD load in the same manner as for BOD. Check the appropriate load range and record the corresponding code in the COD code box. Record the larger of the BOD or COD points checked in the Oxygen Demand Points blank.

14. Determine the TSS load in the same manner as for BOD. Check the appropriate load range and record the corresponding code in the TSS code box. Also record the points checked in the TSS Points blank.

15. Determine the ammonia load in the same manner as for BOD. An alternate nitrogen parameter such as TKN may be substituted for ammonia. Check the appropriate load range and record the corresponding code in the Ammonia code box. Also record the points checked in the Ammonia Points blank.

16. A heat load is computed for large thermal discharges. If the total wastewater flow is less than 10 mgd or there are no temperature limits in the permit, check the Not Computed blank, record a 9 in the Heat Load code box and record a 0 in the Heat Load Points blank.

If a computation is indicated, determine the maximum temperature limit in the permit. Compute a temperature differential in °F by subtracting 70° from this limit. Then perform the multiplication indicated on the worksheet and check the appropriate heat load range. Record the corresponding code in the Heat Load code box and points in the Heat Load Points blank.

17. Compute the Total Traditional Pollutant Points by summing Oxygen Demand, TSS, Ammonia and Heat Load Points and record.

18. Review supplemental information concerning public water supplies to determine if the receiving water is used as a public water supply. If not, check the no blank, record a 1 in the Public Health code box and record a 0 in the Public Health Points blank. If used as a supply, check the yes blank and record a 2 in the Public Health Code box. Obtain the toxicity group from the first page of the worksheet and check the appropriate toxicity group blank. Then record the associated points in the Public Health Points blank.

19. Determine if the discharge is subject to water quality limiting factors. This will be true if the discharge is to a stream designated as water quality limiting by the State agency or for which waste load allocations have been established. This will also be true if some of the effluent limits in the permit are based on water quality conditions in the receiving stream rather than on effluent guidelines (technology based, the usual case). Making this determination will be somewhat

difficult in some cases. Sources to review for the necessary information are the Fact Sheet, the rationale on which permit limits were based, water quality inventory reports prepared by the State and submitted to EPA biennially as required by Section 305 and areawide Waste Treatment Management planning reports prepared for some urban areas by local planning agencies under Section 208. Some states may have reports summarizing these data.

Check the appropriate blank and record the associated code in the Water Quality Limiting code box. If no data have been found, check no.

20. Determine if the quality of the receiving water meets, or is in compliance with, the applicable State water quality standards or criteria. This information may be present in the Section 208 or 305 reports or special State reports.

Check the appropriate blank and record the associated code in the Water Quality Standards code box. If no data have been found, check yes.

Sum the water quality limiting and water quality standards points checked and enter the total in the Total Water Quality Points blank.

21. Add the Toxic Pollutant, Wastewater Flow, Traditional Pollutant, Public Health and Water Quality points and record the sum in the Total Rating Points blank.

22. Record your initials and the date in the appropriate blanks on page 4 of the worksheet.

CONVERSION FACTORS

Pounds = kilograms x 2.205

Pounds/day = mg/l x mgd x 8.34

°F = °C x 1.8 + 32

mgd = m^3/day x 0.000264

mgd = gpm x 1440

TOXICITY GROUPS FOR SIC CODES

SIC Code / SIC Title	Effluent Guidelines Division Designations: Major Industry Type	EG No.	Industrial Subcategory	Toxic Group
Iron Ores	Ore Mining & Dressing	00	Iron Ore	II
Copper Ores	Ore Mining & Dressing	00	Base & Precious Metals	I
Lead and Zinc Ores	Ore Mining & Dressing	00	Base & Precious Metals	I
Gold Ores	Ore Mining & Dressing	00	Base & Precious Metals	I
Silver Ores	Ore Mining & Dressing	00	Base & Precious Metals	I
Bauxite & Other Aluminum Ores	Ore Mining & Dressing	00	Aluminum	II
Ferroalloy Ores, Except Vanadium	Ore Mining & Dressing	00	Ferroalloy	I
Mercury Ores	Ore Mining & Dressing	00	Mercury	I
Uranium-Radium-Vanadium Ores	Ore Mining & Dressing	00	Uranium	V
Metal Ores NEC	Ore Mining & Dressing	00	Metal Ore, NEC	I
Anthracite Mining	Coal Mining	01	Acid or Ferruginous Mines	I
Anthracite Mining	Coal Mining	02	Alkaline Mines	I
Anthracite Mining	Coal Mining	03	Anthracite Segment of Acid Mine Subcategory	II
Anthracite Mining	Coal Mining	04	Coal Preparation Plants	I
Anthracite Mining	Coal Mining	05	Regrade/Revegetation	II
Bituminous Coal and Lignite	Coal Mining	01	Acid or Ferruginous Mines	II
Bituminous Coal and Lignite	Coal Mining	02	Alkaline Mines	I
Bituminous Coal and Lignite	Coal Mining	03	Coal Preparation Plants	I
Bituminous Coal and Lignite	Coal Mining	04	Regrade/Revegetation	II
Phosphate Rock	Phosphate Mining	00	Phosphate Mining	I
Broad Woven Fabric Mills, Cotton	Textile Mills	01	Greige Mills	II
Broad Woven Fabric Mills, Cotton	Textile Mills	02	Woven Fabric Finishing	
Broad Woven Fabric Mills, Man-Made Fiber & Silk	Textile Mills	01	Greige Mills	I
Broad Woven Fabric Mills, Cotton	Textile Mills	02	Woven Fabric Finishing	
Broad Woven Fabric Mills, Wool	Textile Mills	01	Greige Mills	I
Broad Woven Fabric Mills, Wool	Textile Mills	02	Wool Finishing	
Narrow Fabrics & Other Smallwares Mills	Textile Mills	01	Greige Mills	I
Narrow Fabrics and other Smallwares Mills	Textile Mills	02	Woven Fabric Finishing	
Women's Full Length & Knee Length Hosiery	Textile Mills	00	Hosiery	
Hosiery, Exc Women's Full Length & Knee Length	Textile Mills	00	Hosiery	
Knit Outerwear Mills	Textile Mills	01	Greige Mills	I
Knit Outerwear Mills	Textile Mills	02	Knit Fabric Finishing	
Knit Underwear Mills	Textile Mills	00	Knit Fabric Finishing	
Knit Fabric Mills	Textile Mills	00	Knit Fabric Finishing	
Knit Fabric Mills	Textile Mills	00	Knit Fabric Finishing	
Circular Knit Fabric Mills	Textile Mills	00	Knit Fabric Finishing	
Warp Knit Fabric Mills	Textile Mills	00	Knit Fabric Finishing	
Knitting Mills, NEC	Textile Mills	00	Knit Fabric Finishing	
Finishers of Broad Woven Fabrics of Cotton	Textile Mills	00	Woven Fabric Finishing	
Finishers of Broad Woven Fabrics/Man-made Fiber	Textile Mills	00	Woven Fabric Finishing	
Finishers of Textiles, NEC	Textile Mills	00	Woven Fabric Finishing	
Woven Carpets and Rugs	Textile Mills	01	Carpet Finishing	
Woven Carpets and Rugs	Textile Mills	02	Greige Mills	I
Tufted Carpets and Rugs	Textile Mills	01	Carpet Finishing	
Tufted Carpets and Rugs	Textile Mills	02	Greige Mills	I
Carpets and Rugs, NEC	Textile Mills	00	Carpet Finishing	
Yarn Spinning Mills:Cotton, Man-Made Fibers	Textile Mills	01	Greige Mills	I

TOXICITY GROUPS FOR SIC ...ES

SIC Code	SIC Title	Effluent Guidelines Division Designations				Tox
		Major Industry Type	ID No.	Industrial Subcategory		G
...pinnig Mills;Cotton, Man-made Fiber & Silk		Textile Mills	02	Stock & Yarn Dyeing		
Texturizing, Throwing, Twisting & Winding M.		Textile Mills	01	Greige Mills		
Texturizing, Throwing, Twisting, etc.		Textile Mills	02	Stock & Yarn Dyeing		
Mills, Wool, Including Carpet & Rug Yarn		Textile Mills	01	Greige Mills		
Mills, Wool, Including Carpet & Rug Yarn		Textile Mills	02	Stock & Yarn Dyeing		
...l Mills		Textile Mills	00	Stock & Yarn Dyeing		
Goods, Exc Woven Felts and Hats		Textile Mills	00	Felt Manufacturing		
...gs and Upholstery Filling		Textile Mills	00	Padding & Upholstery		
...ven Fabrics		Textile Mills	00	Nonwoven Manufacturing		
...e and Twine		Textile Mills	00	Cordage & Twine		
...le Goods NEC		Textile Mills	00	Wool Scouring		
...l & Other Finished Products/From Fabrics		Textile Mills	00	Apparel		
...lls & Planing Mills, General		Timber Products Processing	03	Sawmills & Planing Mills		
...od Dimension & Flooring Mills		Timber Products Processing	00	Hardwood Dimension & Flooring Mills		
...l Product Sawmills NEC		Timber Products Processing	00	Special Products Sawmills, NEC		
...rk		Timber Products Processing	00	Millwork		
...itchen Cabinets		Timber Products Processing	00	Wood Kitchen Cabinets		
...od Veneer and Plywood		Timber Products Processing	01	Plywood		
...od Veneer and Plywood		Timber Products Processing	02	Veneer		
...od Veneer and Plywood		Timber Products Processing	01	Plywood		
...od Veneer and Plywood		Timber Products Processing	02	Veneer		
...ntainers NEC		Timber Products Processing	00	Wood Containers, NEC		
...reserving		Timber Products Processing	01	Wood Preserving - Steam		
...reserving		Timber Products Processing	02	Wood preserving - Boulton		
...reserving		Timber Products Processing	03	Wood Preserving - Inorganic		
...leboard		Timber Products Processing	00	Particleboard		
...roducts NEC		Timber Products Processing	01	Hardboard - Dry Process		
...roducts NEC		Timber Products Processing	02	Wet Process Hardboard (2 subcategories)		
...roducts NEC		Timber Products Processing	03	Wood Products, NEC		
...lls		Pulp, Paper & Paperboard	01	Alkaline Market Pulp		
...lls		Pulp, Paper & Paperboard	02	Bleached Kraft - Dissolving		III
...lls		Pulp, Paper & Paperboard	03	Bleached Kraft - NCT Paper		III
...lls		Pulp, Paper & Paperboard	04	Bleached Kraft - Fine Papers		III
...lls		Pulp, Paper & Paperboard	05	Bleached Kraft Newsprint		III
...lls		Pulp, Paper & Paperboard	06	Chemi-Mechanical Pulp-CMP		III
...lls		Pulp, Paper & Paperboard	07	Deink Pulp - Fine Tissue		III
...lls		Pulp, Paper & Paperboard	08	Deink Pulp - News		III
...lls		Pulp, Paper & Paperboard	09	Dissolving Sulfite		III
...lls		Pulp, Paper & Paperboard	10	Groundwood-CMN		III
...lls		Pulp, Paper & Paperboard	11	Groundwood-Fine		III
...lls		Pulp, Paper & Paperboard	12	Miscellaneous Non-Wood Pulp		III
...lls		Pulp, Paper & Paperboard	13	Paper Grade Sulfite		III
...lls		Pulp, Paper & Paperboard	14	Semi - Chemical		III
...lls		Pulp, Paper & Paperboard	15	Thermo-Mechanical Pulp		III
...lls		Pulp, Paper & Paperboard	16	Unbleached Kraft/Semi-Chemical X-Recovery		III
...lls		Pulp, Paper & Paperboard	17	Waste Paper - Tissue		III
		Pulp, Paper & Paperboard	18	Waste Paper - Molded		III

TOXICITY GROU. .OR SIC CODES

SIC Code No.	SIC Title	Effluent Guidelines Division Designations: Major Industry Type	EP No.	Industrial Subcategory	To
621	Paper Mills, Except Building Paper Mills	Pulp, Paper & Paperboard	01	Non-Integrated - Fine	
621	Paper Mills, Except Building Paper Mills	Pulp, Paper & Paperboard	02	Non-Integrated - Tissue	
621	Paper Mills, Except Building Paper Mills	Pulp, Paper & Paperboard	03	Non-Integrated - Specialty	
621	Paper Mills, Except Building Paper Mills	Pulp, Paper & Paperboard	04	Non-Integrated - Lightweight & Thin Paper	
621	Paper Mills, Except Building Paper Mills	Pulp, Paper & Paperboard	05	Non-Integrated - Filter & Non-Woven Paper	
621	Paper Mills, Except Building Paper Mills	Pulp, Paper & Paperboard	06	Non-Integrated - Paperboard	
631	Paperboard Mills	Pulp, Paper & Paperboard	01	Bleached Kraft - DCT Paper	
631	Paperboard Mills	Pulp, Paper & Paperboard	02	Groundwood-CHN	
631	Paperboard Mills	Pulp, Paper & Paperboard	03	Semi - Chemical	
631	Paperboard Mills	Pulp, Paper & Paperboard	04	Unbleached Kraft/Semi-Chemical X-Recovery	
631	Paperboard Mills	Pulp, Paper & Paperboard	05	Waste Paper - Board	
661	Building Paper & Buildingboard Mills	Pulp, Paper & Paperboard	01	Waste Paper - Construction	
661	Building Paper and Buildingboard Mills	Pulp, Paper & Paperboard	02	Waste Paper - Board	
661	Building Paper & Buildingboard Mills	Timber Products Processing	03	Barking	
661	Building Paper & Buildingboard Mills	Timber Products Processing	04	Insulation Board (2 subcategories)	
700	Printing, Publishing & Allied Industries	Printing & Publishing	01	Pressroom - Water Based Ink	
700	Printing, Publishing & Allied Industries	Printing & Publishing	02	Printing & Publishing	
812	Alkalies and Chlorine	Inorganic Chemicals Manuf.	01	Chlorine	
812	Alkalies and Chlorine	Inorganic Chemicals Manuf.	02	Diaphragm Cell	
812	Alkalies and Chlorine	Inorganic Chemicals Manuf.	03	Mercury Cell	
812	Alkalies and Chlorine	Inorganic Chemicals Manuf.	04	Potassium Carbonate	
812	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	05	Sodium Bicarbonate	
812	Alkalies and Chlorine	Inorganic Chemicals Manuf.	06	Sodium Carbonate	
813	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	01	Carbon Dioxide	
813	Industrial Gases	Inorganic Chemicals Manuf.	02	Gases, Industrial Compressed Liquid/Solid	
813	Industrial Gases	Inorganic Chemicals Manuf.	03	Nitrous Oxide	
813	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	04	Oxygen & Nitrogen	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	01	Barium Sulfate	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	02	Byrytes Pigments	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	03	Chloride Process	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	04	Chrome Pigments	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	05	Iron Colors	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	06	Iron Oxide, Black	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	07	Iron Oxide, Magnetic	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	08	Iron Oxide, Yellow	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	09	Lead Dioxide, Brown (PbO_2)	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	10	Lead Oxide, Red (Pb_3O_4)	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	11	Ochers	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	12	Satin White Pigment	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	13	Siennas	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	14	Sulfate Process	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	15	Titanium Dioxide	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	16	Ultramarine Pigment	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	17	Umbers	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	18	White Lead Pigment ($Pb(OH)_2 \cdot PbCO_3$)	
816	Inorganic Pigments	Inorganic Chemicals Manuf.	19	Whiting	
819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	01	Aluminum Chloride	

Table 1 (Cont'd.)

TOXICITY GROUPS FOR SIC CODES

SIC Code No.	SIC Title	Effluent Guidelines Division Designations: Major Industry Type	15 No.	Industrial Subcategory
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	01	Aluminum Compounds
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	03	Aluminum Fluoride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	04	Aluminum Hydroxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	05	Aluminum Oxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	06	Aluminum Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	07	Alums
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	08	Ammonia Alum
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	09	Ammonium Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	10	Ammonium Compounds
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	11	Ammonium Hydroxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	12	Ammonium Molybdate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	13	Ammonium Perchlorate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	14	Ammonium Thiosulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	15	Barium Carbonate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	16	Barium Compounds
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	17	Beryllium Oxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	18	Bleaching Powder
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	19	Borax
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	20	Boric Acid
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	21	Boron Compounds (Not produced at mines)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	22	Borosilicate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	23	Brine
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	24	Bromine
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	25	Calcium
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	26	Calcium Carbide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	27	Calcium Carbonate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	28	Calcium Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	29	Calcium Compounds (Inorganic)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	30	Calcium Hypochlorite
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	31	Calcium Oxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	32	Carbon Monoxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	33	Cerium Salts
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	34	Chlorosulfuric Acid
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	35	Chromic Acid
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	36	Chromium Oxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	37	Chromium Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	38	Cobalt Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	39	Cobalt Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	40	Cobalt 60 (radioactive)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	41	Copper Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	42	Copper Iodide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	43	Copper Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	44	Cuprous Oxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	45	Ferric Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	46	Ferrous Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	47	Fissionable Materials Production
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	48	Fluorine

TOXICITY GROUPS FOR SIC CODES

SIC Code No.	SIC Title	Effluent Guidelines Division Designations: Major Industry Type	EIS No.	Industrial Subcategory
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	49	Heavy Water
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	50	Hydrated Alumina Silicate Powder
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	51	Hydrochloric Acid
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	52	Hydrofluoric Acid
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	53	Hydrogen
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	54	Hydrogen Cyanide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	55	Hydrogen Peroxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	56	Hydrogen Sulfide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	57	Hydrophosphites
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	58	Indium Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	59	Inorganic Acids (exc. HNO_2 or H_2SO_4)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	60	Iodides
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	61	Iodine
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	62	Isotopes Radioactive
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	63	Lead Arsenate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	64	Lead Monoxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	65	Lead Silicate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	66	Lithium Carbonate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	67	Lithium Compounds
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	68	Luminus Compounds (Radium)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	69	Magnesium Compounds (Inorganic)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	70	Manganese Dioxide (Powder Synthetic)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	71	Manganese Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	72	Mercury Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	73	Mercury Oxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	74	Nickel Ammonium Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	75	Nickel Carbonate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	76	Nickel Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	77	Nickel Fluoborate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	78	Nickel Nitrate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	79	Nickel Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	80	Nitric Acid (Strong)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	81	Nitric Acid
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	82	Nuclear Fuel Reactor Cases, Inorganic
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	83	Nuclear Fuel Scrap Re-Processing
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	84	Oleum (Fuming Sulfuric Acid)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	85	Oxidation Catalyst from Porcelain
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	86	Perchloric Acid
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	87	Peroxides, Inorganic
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	88	Potash Alum
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	89	Potash Magnesia
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	90	Potassium Aluminum Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	91	Potassium Bromide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	92	Potassium Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	93	Potassium Cyanide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	94	Potassium Chlorate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	95	Potassium Compounds, Inorg.

TOXICITY Ch FOR SIC CODES

SIC Code No.	SIC Title	Effluent Guidelines Division Designations: Major Industry Type	IS No.	Industrial Subcategory
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	96	Potassium Dichromate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	97	Potassium Hypochlorate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	98	Potassium Iodide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	99	Potassium Metal
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	100	Potassium Nitrate & Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	101	Potassium Permanganate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	102	Potassium Sulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	103	Radium Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	104	Radium Luminous Compounds
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	105	Rare Earth Metal Salts
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	106	Reagent Grade Chem (Inorg. Ref. From Tech. Grades)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	107	Salts of Rare Earth Metals
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	108	Silica Amorphous
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	109	Silica Gel
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	110	Silver Bromide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	111	Silver Carbonate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	112	Silver Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	113	Silver Cyanide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	114	Silver Iodide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	115	Silver Nitrate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	116	Silver Oxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	117	Soda Alum
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	118	Sodium Antimoniate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	119	Sodium Bisulfite
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	120	Sodium Chlorate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	121	Sodium Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	122	Sodium Compounds, Inorganic
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	123	Sodium Cyanide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	124	Sodium Dichromate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	125	Sodium Fluoride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	126	Sodium Hydrosulfite
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	127	Sodium Hydrosulfide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	128	Sodium Metal
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	129	Sodium Silicate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	130	Sodium Silicofluoride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	131	Sodium Sulfite
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	132	Sodium Thiosulfate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	133	Stannic & Stannous Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	134	Stannic Oxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	135	Strontium Carbonate (Precipitated & Oxide)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	136	Strontium Nitrate
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	137	Sulfides & Sulfites
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	138	Sulfocyanides
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	139	Sulfur (rec.or ref. incl. sour nat. gas)
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	140	Sulfur Chloride
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	141	Sulfur Dioxide
2819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	142	Sulfur Hexafluoride

Table 1 (Cont'd.)

TOXICITY GROUPS FOR SIC CODES

SIC Code	SIC Title	Major Industry Type	Effluent Guidelines Division Designations: IS No.	Industrial Subcategory	To
819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	144	Sulfuric Acid	
819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	144	Thiocyanates, Inorganic	
819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	145	Tin Compounds, Inorganic	
819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	146	Uranium Alog, Radioactive	
819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	147	Zinc Chloride	
819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	148	Zinc Oxide	
819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	149	Zinc Sulfate	
819	Industrial Inorganic Chemicals NEC	Inorganic Chemicals Manuf.	150	Zinc Sulfide	
819	Industrial Inorganic Chemicals NEC	Pesticides	151	Amides	
819	Industrial Inorganic Chemicals NEC	Pesticides	152	Halogenated Organics	
819	Industrial Inorganic Chemicals NEC	Pesticides	153	Heterocyclic Nitrogens	
819	Industrial Inorganic Chemicals NEC	Pesticides	154	Metallo Organic	
819	Industrial Inorganic Chemicals NEC	Pesticides	155	Miscellaneous	
819	Industrial Inorganic Chemicals NEC	Pesticides	156	No Discharge Manufacturers	
819	Industrial Inorganic Chemicals NEC	Pesticides	157	Organophosphorus	
819	Industrial Inorganic Chemicals NEC	Phosphate Manufacturing	158	Defluorinated Rock	
819	Industrial Inorganic Chemicals NEC	Phosphate Manufacturing	159	Defluorinated Acid	
819	Industrial Inorganic Chemicals NEC	Phosphate Manufacturing	160	Elemental Phosphorus	
819	Industrial Inorganic Chemicals NEC	Phosphate Manufacturing	161	Phosphorus Derived Chemicals	
819	Industrial Inorganic Chemicals NEC	Phosphate Manufacturing	162	Phosphates	
819	Industrial Inorganic Chemicals NEC	Phosphate Manufacturing	163	Sodium Phosphates	
2821	Plastic Matrls, Syn Resins & Nonvul Elastomers	Gum & Wood Chemicals	01	Rosin Based Derivatives	
2821	Plastic Matrls., Syn Resins & Nonvul Elastomers	Plastics & Synthetics	02	Plastic Materials, Synthetic Resins; Nonvulcanizable E	
2822	Synthetic Rubber (Vulcanizable Elastomers)	Rubber.	01	Synthetic Crumb Rubber Prod. - Emulsion Polymerization	
2822	Synthetic Rubber (Vulcanizable Elastomers)	Rubber	02	Synthetic Crumb Rubber Prod. - Solution Polymerization	
2822	Synthetic Rubber (Vulcanizable Elastomers)	Rubber	03	Synthetic Latex Rubber Production	
2823	Cellulosic Man-Made Fibers	Plastics & Synthetics	00	Cellulosic Man-Made Fibers	
2824	Synthetic Organic Fibers, Except Cellulosic	Plastics & Synthetics	00	Synthetic Organic Fibers, Except Cellulosic	
2831	Biological Products	Pharmaceutical Manufacturing	00	Extraction (Biological Products)	
2833	Medicinal Chemicals & Botanical Products	Pharmaceutical Manufacturing	01	Chemical Synthesis (Medicinals & Botanicals)	
2833	Medicinal Chemicals & Botanical Products	Pharmaceutical Manufacturing	02	Extraction (Medicinals & Botanicals)	
2833	Medicinal Chemicals & Botanical Products	Pharmaceutical Manufacturing	03	Fermentation (Medicinals & Botanicals)	
2834	Pharmaceutical Preparations	Pharmaceutical Manufacturing	00	Mixing & Formulation (Pharmaceutical Preparations)	
2841	Soaps & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	01	Fatty Acid Manufacturing by Fat Splitting	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	02	Glycerine Concentration	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	03	Glycerine Distillation	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	04	Manufacturing of Bar Soaps	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	05	Manufacturing of Detergent Bars & Cakes	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	06	Manufacturing of Dry Blended Detergents	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	07	Manufacturing of Drum Dried Detergents	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	08	Manufacturing of Liquid Soaps	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	09	Manufacturing of Liquid Detergents	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	10	Manufacturing of Soap Flakes & Powders	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	11	Manufacturing of Spray Dried Detergents	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	12	Soap Manufacturing by Batch Kettle	
2841	Soap & Other Detergents, Exc Specialty Cleaners	Soaps & Detergents	13	Soap Manufacturing by Fatty Acid Neutralization	
			01	Manufacturing of Liquid Soaps	

SIC Code	SIC Title	Major Industry Type	Effluent Guidelines Division Designations		Toxicity Group
			IS No.	Industrial Subcategory	
42	Specialty Cleaning, Polishing & Sanitation Prep.	Soaps & Detergents	02	Manufacturing of Liquid Detergents	
43	Surface Active Agents, Finishing Agents, Etc	Soaps & Detergents	01	Air-SO3 Sulfation & Sulfonation	
43	Surface Active Agents, Finishing Agents, Etc	Soaps & Detergents	02	Chlorosulfonic Acid Sulfation	
43	Surface Active Agents, Finishing Agents, Etc.	Soaps & Detergents	03	Manufacturing of Liquid Detergents	
43	Surface Active Agents, Finishing Agents, Etc	Soaps & Detergents	04	Neutralization of Sulfuric Acid Esters & Sulfonic Acids	
43	Surface Active Agents, Finishing Agents, Etc	Soaps & Detergents	05	Oleum Sulfonation & Sulfation	
43	Surface Active Agents, Finishing Agents, Etc	Soaps & Detergents	06	SO3 Solvent & Vacuum Sulfonation	
44	Perfumes, Cosmetics & Other Toilet Preparations	Soaps & Detergents	07	Sulfamic Acid Sulfation	
51	Paints/Varnishes/Lacquers/Enamels & Allied Prod	Soaps & Detergents	00	Manufacturing of Liquid Soaps	
51	Paints/Varnishes/Lacquers/Enamels & Allied Prod	Paint & Ink	01	Caustic or Water Washed Paint	
61	Gum and Wood Chemicals	Paint & Ink	02	Solvent Wash Paint	
61	Gum and Wood Chemicals	Gum & Wood Chemicals	01	Char & Charcoal Briquettes	
61	Gum and Wood Chemicals	Gum & Wood Chemicals	02	Essential Oil	
61	Gum and Wood Chemicals	Gum & Wood Chemicals	03	Gum Rosin	
61	Gum and Wood Chemicals	Gum & Wood Chemicals	04	Rosin Based Derivatives	
61	Gum and Wood Chemicals	Gum & Wood Chemicals	05	Sulfate Turpentine	
65	Cyclic Crudes Interm., Dyes & Organic Pigments	Gum & Wood Chemicals	06	Tall Oil	
69	Industrial Organic Chemicals NEC	Gum & Wood Chemicals	07	Wood Rosin	
69	Industrial Organic Chemicals NEC	Organic Chemicals	00	Cyclic Crudes & Intermed., Dyes & Organic Pigments	
69	Industrial Organic Chemicals NEC	Organic Chemicals	01	Industrial Organic Chemicals, NEC	
69	Industrial Organic Chemicals NEC	Pesticides	02	Amides	
69	Industrial Organic Chemicals NEC	Pesticides	03	Halogenated Organics	
69	Industrial Organic Chemicals NEC	Pesticides	04	Heterocyclic Nitrogens	
69	Industrial Organic Chemicals NEC	Pesticides	05	Metallo Organic	
69	Industrial Organic Chemicals NEC	Pesticides	06	Miscellaneous	
69	Industrial Organic Chemicals NEC	Pesticides	07	No Discharge Manufacturers	
79	Pesticides & Agricultural Chemicals NEC	Pesticides	08	Organophosphorus	
91	Adhesives and Sealants	Pesticides	00	Formulation & Packaging of Agricultural Chemicals	
92	Explosives	Adhesives & Sealants	00	Adhesives & Sealants	
92	Explosives	Explosives (Commercial Sect)	01	Explosives	
92	Explosives	Explosives (Commercial Sect)	02	Initiators	
92	Explosives	Explosives (Commercial Sect)	03	LAP & Dry Mix	
92	Explosives	Explosives (Commercial Sect)	04	Propellants	
92	Explosives	Explosives (Military Sect)	05	Demilitarization	
92	Explosives	Explosives (Military Sect)	06	Explosives	
92	Explosives	Explosives (Military Sect)	07	Initiators	
92	Explosives	Explosives (Military Sect)	08	LAU	
92	Explosives	Explosives (Military Sect)	09	Propellants	
92	Explosives	Explosives (Military Sect)	10	Pyrotechnics	
93	Printing Ink	Paint & Ink	01	Caustic or Water Washed Ink	
93	Printing Ink	Paint & Ink	02	Solvent Wash Ink	
95	Carbon Black	Carbon Black	01	Channel Process	
95	Carbon Black	Carbon Black	02	Furnace Process	
95	Carbon Black	Carbon Black	03	Lamp Process	
95	Carbon Black	Carbon Black	04	Thermal Process	
11	Petroleum Refining	Petroleum Refining	00	Petroleum Refining	
11	Tires and Inner Tubes	Rubber	00	Tire & Inner Tube Production	

Table 1 (Cont'd.)

TOXICITY GROUPS FOR SIC CODES

SIC Code		Effluent Guidelines Division Designations		
No.	SIC Title	Major Industry Type	ID No.	Industrial Subcategory
3021	Rubber and Plastics Footwear	Rubber	01	Large-sized General Molded, Extruded & Fabr. Rubber
3021	Rubber and Plastics Footwear	Rubber	02	Latex-Dipped, Latex-Extruded & Latex Molded Goods
3021	Rubber and Plastics Footwear	Rubber	03	Medium-sized General Molded, Extruded & Fabr. Rubber
3021	Rubber and Plastics Footwear	Rubber	04	Small-sized General Molded, Extruded & Fabr. Rubber
3031	Reclaimed Rubber	Rubber	01	Pan, Dry Digestion, & Mechanical Reclaim
3031	Reclaimed Rubber	Rubber	07	Wet Digestion Reclaim
3041	Rubber and Plastics Hose and Belting	Rubber	01	Large-sized General Molded, Extruded & Fabr. Rubber
3041	Rubber and Plastics Hose and Belting	Rubber	02	Medium-sized General Molded, Extruded & Fabr. Rubber
3041	Rubber & Plastics Hose and Belting	Rubber	03	Small-sized General Molded, Extruded & Fabr. Rubber
3069	Fabricated Rubber Products, NEC	Rubber	01	Large-sized General Molded, Extruded & Fabr. Rubber
3069	Fabricated Rubber Products NEC	Rubber	02	Latex Foam
3069	Fabricated Rubber Products, NEC	Rubber	03	Latex-Dipped, Latex-Extruded & Latex Molded Goods
3069	Fabricated Rubber Products, NEC	Rubber	04	Medium-sized General Molded, Extruded & Fabr. Rubber
3069	Fabricated Rubber Products, NEC	Rubber	05	Small-sized General Molded, Extruded & Fabr. Rubber
3079	Miscellaneous Plastics Products	Plastics Processing	01	Miscellaneous Plastics Products
3079	Miscellaneous Plastics Products	Plastics Processing	02	Plastics Processing Without Contact Process Water
3079	Miscellaneous Plastics Products	Plastics Processing	03	Solution Casting
3079	Miscellaneous Plastics Products	Plastics Processing	04	Water Slurry Preforming Processes
3111	Leather Tanning and Finishing	Leather Tanning & Finishing	01	Hair Pulp, Chrome Tan, Retan-wet Finish
3111	Leather Tanning and Finishing	Leather Tanning & Finishing	02	Hair Save, Chrome Tan, Retan-wet Finish
3111	Leather Tanning and Finishing	Leather Tanning & Finishing	03	Hair Save, Non-chrome Tan, Retan-wet Finish
3111	Leather Tanning and Finishing	Leather Tanning & Finishing	04	No Beamhouse
3111	Leather Tanning and Finishing	Leather Tanning & Finishing	05	Retan-Wet Finish
3111	Leather Tanning and Finishing	Leather Tanning & Finishing	06	Shearling
3111	Leather Tanning and Finishing	Leather Tanning & Finishing	07	Through-The-Blue
3131	Boot & Shoe Cut Stock & Findings	Leather Tanning & Finishing	00	Boot & Shoe Cut Stock & Findings
3142	House Slippers	Leather Tanning & Finishing	00	House Slippers
3143	Men's Footwear, Except Athletic	Leather Tanning & Finishing	00	Men's Footwear, Except Athletic
3144	Women's Footwear, Except Athletic	Leather Tanning & Finishing	00	Women's Footwear, Except Athletic
3149	Footwear, Except Rubber NEC	Leather Tanning & Finishing	00	Footwear, Except Rubber, NEC
3151	Leather Gloves and Mittens	Leather Tanning & Finishing	00	Leather Gloves & Mittens
3161	Luggage	Leather Tanning & Finishing	00	Luggage
3171	Women's Handbags and Purses	Leather Tanning & Finishing	00	Women's Handbags & Purses
3172	Personal Leather Goods, Except Women's Handbags	Leather Tanning & Finishing	00	Personal Leather Goods except Women's Handbags
3199	Leather Goods NEC	Leather Tanning & Finishing	00	Leather Goods, NEC
3293	Gaskets, Packing & Sealing Devices	Rubber	01	Large-sized General Molded, Extruded & Fabr. Rubber
3293	Gaskets, Packing & Sealing Devices	Rubber	02	Medium-sized General Molded, Extruded & Fabr. Rubber
3293	Gaskets, Packing, & Sealing Devices	Rubber	03	Small-sized General Molded, Extruded & Fabr. Rubber
3312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	01	Basic Oxygen Furnace (Wet Air Pollution Control Meth
3312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	02	Basic Oxygen Furnace; Semi-Wet Air Pollu. Control M
3312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	03	Beehive Coke
3312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	04	Blast Furnace (Ferromanganese)
3312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	05	Blast Furnace (Iron)
3312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	06	By-Product Coke
3312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	07	Cold Rolling
3312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	08	Combination Acid Pickling (Batch & Continuous)
3312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	09	Continuous Alkaline Cleaning

TOXICITY GROUP — SIC CODES

SIC Code	SIC Title	Major Industry Type	Effluent Guidelines Division Designations: EG No.	Industrial Subcategory	Toxicity Group
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	10	Continuous Casting & Pressure Slab Holding	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	11	Electric Arc Furnace (Wet Air Pollution Control Methods	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	12	Electric Arc Furnace; Semi-Wet Air Pollu. Control Metho	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	13	Hot Coatings - Galvanizing	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	14	Hot Coatings - Terne.	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	15	Hot Forming - Flat	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	16	Hot Forming - Primary	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	17	Hot Forming - Section	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	18	Open Hearth Furnace	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	19	Pickling - Hydrochloric Acid - Batch & Continuous	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	20	Pickling - Sulfuric Acid - Batch & Continuous	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	21	Pipe & Tube	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	22	Scale Removal (Kolene & Hydride)	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	23	Sintering	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	24	Vacuum Degassing	
312	Blast Furnaces, Steel Works & Rolling Mills	Iron & Steel	25	Wire Pickling & Coating	
3313	Electrometallurgical Products	Iron and Steel	01	Continuous Casting & Pressure Slab Holding	
3313	Electrometallurgical Products	Iron & Steel	02	Electric Arc Furnace (Wet Air Pollution Control Method	
3313	Electrometallurgical Products	Iron & Steel	03	Electric Arc Furnace; Semi-Wet Air Pollu. Control Meth	
3313	Electrometallurgical Products	Iron & Steel	04	Vacuum Degassing	
3315	Steel Wire Drawing & Steel Nails & Spikes	Foundry	05	Hot Forming - Section	
3316	Cold Rolled Steel Sheet, Strip & Bars	Foundry	00	Cold Rolling	
3317	Steel Pipe and Tubes	Foundry	00	Pipe and Tube	
3321	Gray Iron Foundries	Nonferrous Metals	00	Iron & Steel	
3322	Malleable Iron Foundries	Nonferrous Metals	00	Iron and Steel	
3324	Steel Investment Foundries	Nonferrous Metals	00	Iron and Steel	
3325	Steel Foundries, NEC	Nonferrous Metals	00	Iron and Steel	
3331	Primary Smelting and Refining of Copper	Nonferrous Metals	00	Primary Copper	
3332	Primary Smelting and Refining of Lead	Nonferrous Metals	00	Primary Lead	
3333	Primary Smelting and Refining of Zinc	Nonferrous Metals	00	Primary Zinc	
3334	Primary Production of Aluminum	Nonferrous Metals	00	Primary Aluminum	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	01	Bauxite	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	02	Indium	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	03	Primary Antimony	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	04	Primary Arsenic	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	05	Primary Barium	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	06	Primary Beryllium	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	07	Primary Bismuth	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	08	Primary Boron	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	09	Primary Cadmium	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	10	Primary Calcium	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	11	Primary Cesium	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	12	Primary Cobalt	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	13	Primary Columbium	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	14	Primary Gallium	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	15	Primary Germanium	
3339	Primary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	16	Primary Gold	

SIC Code / SIC Title	Major Industry Type	Effluent Guidelines Division Designations: EG No.	Industrial Subcategory	Toxicity Group
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	17	Primary Hafnium	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	18	Primary Lithium	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	19	Primary Magnesium	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	20	Primary Mercury	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	21	Primary Molybdenum	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	22	Primary Nickel	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	23	Primary Platinum Group	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	24	Primary Rare Earths	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	25	Primary Rhenium	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	26	Primary Rubidium	VI
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	27	Primary Selenium	VI
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	28	Primary Silver	VI
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	29	Primary Tantalum	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	30	Primary Tellurium	II
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	31	Primary Tin	
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	32	Primary Titanium	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	33	Primary Tungsten	
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	34	Primary Uranium	
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	35	Primary Zirconium	V
ary Smelt & Refin of Nonferrous Metals NEC	Nonferrous Metals	01	Secondary Aluminum	II
ary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	02	Secondary Babbitt	II
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	03	Secondary Beryllium	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	04	Secondary Boron	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	05	Secondary Cobalt	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	06	Secondary Columbium	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	07	Secondary Copper	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	08	Secondary Lead	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	09	Secondary Magnesium	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	10	Secondary Mercury	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	11	Secondary Nickel	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	12	Secondary Plutonium	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	13	Secondary Precious Metals	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	14	Secondary Rhenium	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	15	Secondary Silver	I
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	16	Secondary Tantalum	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	17	Secondary Tin	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	18	Secondary Titanium	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	19	Secondary Tungsten	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	20	Secondary Uranium	
ondary Smelt & Refin of Nonferrous Metals	Nonferrous Metals	21	Secondary Zinc	
Rolling, Drawing & Extruding of Copper	Copper Forming	01	Cold Rolling	
Rolling, Drawing & Extruding of Copper	Copper Forming	02	Copper Foil	
Rolling, Drawing & Extruding of Copper	Copper Forming	03	Drawing	
Rolling, Drawing & Extruding of Copper	Copper Forming	04	Extrusion	
Rolling, Drawing & Extruding of Copper	Copper Forming	05	Hot Rolling	
Aluminum Sheet, Plate, and Foil	Aluminum Forming	01	Casting	
Aluminum Sheet, Plate, and Foil	Aluminum Forming	02	Cold Rolling	

SIC Code	SIC Title	Major Indus	Effluent Guidelines Division Designations		
			pe	18 No.	Industrial Subcategory
3353	Aluminum Sheet, Plate, and Foil	Aluminum Forming		03	Foil Rolling
3353	Aluminum Sheet, Plate, and Foil	Aluminum Forming		04	Hot Rolling
3354	Aluminum Extruded Products	Aluminum Forming		01	Drawing
3354	Aluminum Extruded Products	Aluminum Forming		02	Extruding
3355	Aluminum Rolling & Drawing NEC	Aluminum Forming		01	Casting
3355	Aluminum Rolling & Drawing NEC	Aluminum Forming		02	Cold Rolling
3355	Aluminum Rolling & Drawing NEC	Aluminum Forming		03	Hot Rolling
3357	Drawing & Insulating of Nonferrous Wire	Aluminum Forming		01	Drawing
3357	Drawing & Insulating of Nonferrous Wire	Electrical Products		02	Insulated Wire & Cable
3361	Aluminum Foundries (Castings)	Foundry		00	Aluminum Casting
3362	Brass, Bronze, Copper, Copper Base Alloy Foundries	Foundry		00	Copper Casting
3369	Nonferrous Foundries (Castings) NEC	Foundry		01	Lead Casting
3369	Nonferrous Foundries (Castings) NEC	Foundry		02	Magnesium Casting
3369	Nonferrous Foundries (Castings) NEC	Foundry		03	Nickel Casting
3369	Nonferrous Foundries (Castings) NEC	Foundry		04	Tin Casting
3369	Nonferrous Foundries (Castings) NEC	Foundry		05	Titanium Casting
3369	Nonferrous Foundries (Castings) NEC	Foundry		06	Zinc Casting
3398	Metal Heat Treating	Aluminum Forming		00	Heat Treating
3411	Metal Cans	Aluminum Forming		00	Can Making
3431	Enameled Iron & Metal Sanitary Ware	Iron & Steel-Porcelain Enamel		00	Iron
3463	Nonferrous Forgings	Aluminum Forming		01	Forging
3463	Nonferrous Forgings	Copper Forming		02	Forging
3471	Electroplating, Plating, Polishing, Anodizing	Aluminum Forming		01	Cleaning & Pickling
3471	Electroplating, Plating, Polishing, Anodizing	Electroplating		02	Job Shops
3471	Electroplating, Plating, Polishing, Anodizing	Electroplating		03	Processes Within Electroplating Category
3479	Coating, Engraving & Allied Services	Coil Coating		01	Aluminum & Aluminized Steel
3479	Coating, Engraving & Allied Services	Coil Coating		02	Cold Rolled Steel
3479	Coating, Engraving & Allied Services	Coil Coating		03	Galvanized Steel
3479	Coating, Engraving & Allied Services, NEC	Electroplating		04	Job Shops
3479	Coating, Engraving & Allied Services, NEC	Iron & Steel		05	Hot Coatings - Galvanizing
3497	Metal Foil and Leaf	Coal Coating		00	Aluminum & Aluminized Steel
3612	Power, Distribution & Specialty Transformers	Electrical Products		01	Transformers, Dry
3612	Power, Distribution & Specialty Transformers	Electrical Products		02	Transformers, Liquid Filled
3613	Switchgear & Switchboard Apparatus	Electrical Products		00	Switchgear
3621	Motors and Generators	Electrical Products		00	Motors, Generators & Alternators
3624	Carbon & Graphite Products	Electrical Products		01	Carbon & Graphite Products
3624	Carbon and Graphite Products	Electrical Products		02	Resistance Heaters
3629	Electrical Industrial Apparatus, NEC	Electrical Products		00	Capacitors
3631	Household Cooking Equipment	Iron & Steel-Porcelain Enamel		01	Aluminum
3631	Household Cooking Equipment	Iron & Steel-Porcelain Enamel		02	Steel
3632	Household Refrigerators & Home & Farm Freezers	Iron & Steel-Porcelain Enamel		01	Steel
3632	Household Refrigerators & Home & Farm Freezers	Iron & Steel-Porcelain Enamel		02	Strip Steel
3633	Household Laundry Equipment	Iron & Steel-Porcelain Enamel		01	Steel
3633	Household Laundry Equipment	Iron & Steel-Porcelain Enamel		02	Strip Steel
3639	Household Appliances, NEC	Iron & Steel-Porcelain Enamel		01	Steel
3639	Household Appliances, NEC	Iron & Steel-Porcelain Enamel		02	Strip Steel
3641	Electric Lamps	Electrical Products		00	Electric Lamps

SIC Code No.	SIC Title	Major In	Effluent Guidelines Division Designations Type	ID No.	Industrial Subcategory
3644	Noncurrent-carrying Wiring Devices	Electrical Products		CD	Insulating Devices
3671	Radio & Television Receiving Type Electron Tubes	Electrical Products		GO	Electron Tubes & Glass Encapsulated Devices
3672	Radio & Television Receiving Type Electron Tubes	Electrical Products		00	Cathode Ray & TV Picture Tubes
3673	Transmitting, Ind. & Spec. Purpose Electron Tube	Electrical Products		00	Electron Tubes & Glass Encapsulated Devices
3674	Semiconductors & Related Devices	Electrical Products		00	Semi-Conductors
3675	Electronic Capacitors	Electrical Products		00	Capacitors
3677	Electronic Coils, Transformers & Other Inductors	Electrical Products		01	Transformers, Dry
3677	Electronic Coils, Transformers & Other Inductors	Electrical Products		02	Transformers, Liquid Filled
3679	Electronic Components, NEC	Electrical Products		01	Crystals & Crystal Products
3679	Electronic Components, NEC	Electrical Products		02	Electric & Electronic Components
3679	Electronic Components, NEC	Electrical Products		C3	Ferrite Electronic Parts
3679	Electronic Components, NEC	Electrical Products		04	Fuel Cells
3691	Storage Batteries	Battery Manufacturing		01	Alkaline Manganese Batteries
3691	Storage Batteries	Battery Manufacturing		02	Carbon-Zinc Air Batteries
3691	Storage Batteries	Battery Manufacturing		03	Carbon-Zinc Paper Lined Batteries
3691	Storage Batteries	Battery Manufacturing		04	Carbon-Zinc, Paste Batteries
3691	Storage Batteries	Battery Manufacturing		05	Lead Acid Batteries
3691	Storage Batteries	Battery Manufacturing		06	Lead Acid Reserve Batteries
3691	Storage Batteries	Battery Manufacturing		07	Lithium Batteries
3691	Storage Batteries	Battery Manufacturing		08	Magnesium Reserve Batteries
3691	Storage Batteries	Battery Manufacturing		09	Magnesium-Carbon Batteries
3691	Storage Batteries	Battery Manufacturing		10	Mercury (Ruben) Batteries
3691	Storage Batteries	Battery Manufacturing		11	Mercury (Weston) Cells
3691	Storage Batteries	Battery Manufacturing		12	Miniature Alkaline Batteries
3691	Storage Batteries	Battery Manufacturing		13	Nickel Zinc Batteries
3691	Storage Batteries	Battery Manufacturing		14	Nickel-Cadmium, Wet Process Batteries
3691	Storage Batteries	Battery Manufacturing		15	Nickel-Cadmium, Dry Process Batteries
3691	Storage Batteries	Battery Manufacturing		16	Silver Oxide-Zinc Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		01	Alkaline Manganese Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		02	Carbon-Zinc Air Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		03	Carbon-Zinc Paper Lined Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		04	Carbon-Zinc, Paste Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		05	Lead Acid Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		06	Lead Acid Reserve Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		07	Lithium Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		08	Magnesium Reserve Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		09	Magnesium-Carbon Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		10	Mercury (Ruben) Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		11	Mercury (Weston) Cells
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		12	Miniature Alkaline Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		13	Nickel Zinc Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		14	Nickel-Cadmium, Wet Process Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		15	Nickel-Cadmium, Dry Process Batteries
3692	Primary Batteries, Dry & Wet	Battery Manufacturing		16	Silver Oxide-Zinc Batteries
3693	Radiographic X-ray, Fluoroscopic X-ray, etc	Electrical Products		00	Electric & Electronic Components
3694	Electrical Equip for Internal Combustion Engines	Electrical Products		00	Motors, Generators & Alternators
3699	Electrical Machinery, Equipment & Supplies, NEC	Electrical Products		00	Electric & Electronic Components

TOXICITY '3 FOR SIC CODES

SIC Code No.	SIC Title	Effluent Guidelines Division Designations Major Industry Type	IS No.	Industrial Subcategory	To
3731	Ship Building and Repairing	Mach & Mech - Shipbuilding	00	Ship Building & Repairing	
3861	Photographic Equipment and Supplies	Mach. & Mech.-Photo. Suppl.	01	Diazo, Solvent Process	
3861	Photographic Equipment and Supplies	Mach. & Mech.-Photo. Suppl.	02	Photographic Equipment & Supplies	
3861	Photographic Equipment and Supplies	Mach. & Mech.-Photo. Suppl.	03	Thermal, Solvent Process	
3911	Jewelry, Precious Metal	Mach & Mech-Porcelain Enamel	00	Copper	
4911	Electric Services	Steam Electric	01	Cooling Tower Blowdown (Fossil Fuel Plants)	
4911	Electric Services	Steam Electric	02	Nuclear Plants	
4911	Electric Services	Steam Electric	03	Once Through Cooling Water (Fossil Fuel Plants)	
4931	Electric and Other Services Combined	Steam Electric	01	Cooling Tower Blowdown (Fossil Fuel Plants)	
4931	Electric and Other Services Combined	Steam Electric	02	Nuclear Plants	
4931	Electric and Other Services Combined	Steam Electric	03	Once Through Cooling Water (Fossil Fuel Plants)	
7211	Power Laundries, Family and Commercial	Auto & Other Laundries	00	Power Laundries	
7213	Linen Supply	Auto & Other Laundries	00	Linen Supply	
7214	Diaper Service	Auto & Other Laundries	00	Diaper Service	
7215	Coin-operated Laundries & Dry Cleaning	Auto & Other Laundries	00	Coin-Operated Laundries	
7216	Dry Cleaning Plants, Except Rug Cleaning	Auto & Other Laundries	00	Dry Cleaning Plants	
7217	Carpet & Upholstery Cleaning	Auto & Other Laundries	00	Carpet & Upholstery Cleaning	
7218	Industrial Launderers	Auto & Other Laundries	00	Industrial Laundry	
7542	Car Washes	Auto & Other Laundries	00	Car Wash	

Facilities producing mechanical products which fall in SIC Codes 3400 through 3499, but which are not included in SIC codes or categories listed in this table, may be assigned an appropriate toxicity group if they have significant electroplating, metal forming, porcelain enameling or other higher rated processes.

All other industrial categories not included in this table are assigned to toxicity group I.