



## Public Information Meeting Fact Sheet

Industrial Stormwater Program

[lswhprogram.pca@state.mn.us](mailto:lswhprogram.pca@state.mn.us)

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## Purpose and Participation

### Purpose

This fact sheet outlines the principal issues related to the preparation of this draft permit and documents the decisions that were made in the determination of the conditions of this permit. This permit will be a reissuance of a previous general permit, which will expire on March 31, 2025.

### General Permit Authority

Minn. R. 7001.0210 provides authority to the MPCA to issue a single permit to a category of permittees whose activities are the same or substantially similar. This single NPDES/SDS permit that can apply to numerous facilities is referred to as a general permit. Title 40 CFR § 122.28 and Minn. R. 7001.0210 allows for the issuance of general permits to regulate categories of discharges if the sources within each category:

- a. Involve the same or substantially similar types of operations.
- b. Discharge the same types of wastes.
- c. Require the same effluent limitations or operating conditions.
- d. Require the same or similar monitoring.
- e. Are more appropriately controlled under a general permit rather than under individual permits.

The MPCA has reviewed data to determine if a category, or categories, of facilities which discharge stormwater associated with industrial activities meet the stipulated criteria for development of a general permit for such activities.

### Permit Authorization

This permit authorizes stormwater discharges associated with industrial activity for any primary SIC code and/or narrative activities and co-located industrial activities as defined in 40 CFR § 122.26 (b)(14)(i- ix and xi), which includes ten categories of industrial activity required to obtain an industrial stormwater permit. These 10 categories of industry are broken down into 29 sectors, based on Primary Standard Industrial Classification (SIC) code or narrative activity. This general permit covers facilities within the boundary of the state of Minnesota that discharge stormwater from facilities with industrial activities described in federal regulation, 40 CFR 122.26(b)(14) to waters of the state of Minnesota. The 29 sectors covered by this general permit are listed in Table 1 below:

**Table 1: Sectors Included in the 2025 ISW General Permit**

Sector	Sector Description
A	Timber Products
B	Paper and Allied Products Manufacturing
C	Chemical and Allied Products Manufacturing
D	Asphalt Paving and Roofing Materials and Lubricant Manufacturing
E	Glass, Clay, Cement, Concrete, and Gypsum Products
F	Primary Metals
G	Metal Mining (Ore Mining and Dressing)
H	Coal Mines and Coal Mining Related Facilities
I	Oil and Gas Extraction and Refining
J	Mineral Mining and Dressing
K	Hazardous Waste Treatment, Storage, or Disposal Facilities
L	Landfills and Land Application Sites
M	Automobile Salvage Yards
N	Scrap Recycling and Waste Recycling Facilities
O	Steam Electric Generating Facilities
P	Land Transportation and Warehousing

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Q	Water Transportation
R	Ship and Boat Building and Repair Yards
S	Air Transportation
T	Treatment Works
U	Food and Kindred Products
V	Textile Mills, Apparel, and Other Fabric Products Manufacturing
W	Furniture and Fixtures
X	Printing and Publishing
Y	Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries
Z	Leather Tanning and Finishing
AA	Fabricated Metal Products
AB	Transportation Equipment and Industrial or Commercial Machinery
AC	Electronic and Electrical Equipment and Components, Photographic and Optical Goods

This permit will replace NPDES/SDS General Permit MNR050000 for Industrial Stormwater Multi-Sector which will expire on March 31, 2025. When this permit is reissued, it will provide the regulatory mechanism for NPDES/SDS authorization of controlled industrial stormwater discharges from all of the facilities described by 40 CFR 122.26(b)(14)(i-ix and xi).

### Prohibitions and Limitations of Authorization

This permit does not authorize the following activities, discharges, or releases:

1. This permit does not authorize the following activities, discharges, or releases:
  - a. Non-stormwater discharges
  - b. Non-contact cooling water
  - c. Domestic and industrial wastewater and process wastewater. For example, wash water, commercial equipment and/or vehicle cleaning.
  - d. Biosolids.
  - e. Spills of any substance that may cause water pollution as defined in Minn. Stat. 115.01, subd. 13.
  - f. Placement of fill into waters of the state requiring local, state, or federal authorizations (such as U.S. Army Corps of Engineers Section 404 Permits, Department of Natural Resources Public Waters Work Permits, or Local Governmental Unit Wetland Conservation Act replacement plans or determinations).
  - g. Non-stormwater discharges mixed with stormwater.
  - h. Stormwater discharges from any portion of the facility where stormwater discharge has authorization under an NPDES/SDS permit.
  - i. Stormwater discharges associated with construction activity as defined in 40 CFR 122.26(b)(14)(x) and (b)(15).
  - j. Discharges to impaired water(s) when a USEPA-approved Total Maximum Daily Load (TMDL) report applies a Waste Load Allocation of zero (0) to a specific facility or industrial activity.
  - k. Discharges to an impaired water when a USEPA-approved TMDL report has identified a specific facility or industrial activity that requires stormwater control measures, BMP provisions, or compliance schedules not contained in this permit for that impaired water.
  - l. Industrial stormwater discharges flowing to prohibited waters, as defined in Minn. R. 7050.0335.
  - m. Any discharges or activities described under "limitation on authorization" in the sector-specific requirements of the permit. [40 CFR 122.26, Minn. R. 7090, Minn. Stat. 115.01, Subd. 13, Minn. Stat. 116.D].

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2. This permit does not replace or satisfy any environmental review requirements, including those under the Minnesota Environmental Policy Act (Minn. Stat. ch. 116D), or the National Environmental Policy Act (42 U.S.C. 4321 - 4370 f). The SWPPP must include any stormwater mitigation measures proposed to be part of the final project in any environmental review.
3. This permit does not replace or satisfy any review requirements for endangered or threatened species, from new or expanded discharges that adversely impact or contribute to adverse impacts on a listed endangered or threatened species, or adversely modify a designated critical habitat.
4. This permit does not replace or satisfy any review requirements for historic places or archeological sites, from new or expanded discharges which adversely affect properties listed or eligible for listing in the National Register of Historic Places or affecting known or discovered archeological sites.

### How to Obtain General Permit Coverage

Prior to submitting the permit application, permit applicants must develop a SWPPP. Permit applicants may obtain coverage under this general permit by submitting an application using MPCA's e-services system. Applicants must certify that a SWPPP has been prepared and that all of the information entered on the application is accurate. For most projects, permit coverage will become effective once the application is received and the fee has been processed. This typically takes one to three days. If the application is considered complete and the MPCA determines that the facility is eligible for coverage under the general permit, the MPCA will send permittees, via email, a notice of coverage. These documents are also made available to the public immediately upon approval on the MPCA's website. Authorization to conduct activities under the general permit does not begin until the permittee receives written confirmation from the MPCA.

### General Description of Permitted Activities

Potential applicants for this permit are public and private facility Owners/Operators whose facilities have stormwater discharges as described in 40 CFR 122.26(b)(14)(i-ix and xi). This permit is proposed to be issued as a general permit in accordance with 40 CFR 122.28 and Minn. R. 7001.0210, subp. 3. The facilities discharging industrial stormwater as defined in 40 CFR 122.26(b)(14)(i-ix and xi) are facilities with:

- Substantially similar operations, emissions, activities, discharges or facilities.
- Discharges, emissions, processes, handling, or disposal of the same types of wastes.
- Emissions, activities, discharges, or facilities subject to the same or substantially similar standards, limitations, and operating requirements.
- Operations, emissions, activities, discharges, or facilities that are subject to the same or substantially similar monitoring requirements.

As an alternative to obtaining this permit, the Owner/Operator of a facility who is able to provide a storm-resistant shelter to protect all industrial materials and industrial activities from exposure to rain, snow, snowmelt, and runoff can obtain the No Exposure exclusion. The Owner/Operator of a facility identified within a SIC code listed in Appendix D of the draft permit must provide verification that they have sampled stormwater for PFAS using Method 1633 at least 4 times/72 hours apart and the average of those samples is below the identified thresholds. An Owner/Operator who submits a certification and maintains this condition of No Exposure will be excluded from NPDES/SDS permit requirements for industrial stormwater discharges for a period of five years.

Thresholds	Special Thresholds: Within 1 mile of a DWSMA or a Class 1 Drinking Water
10 ng/L for PFOA 10 ng/L for PFOS	4 ng/L for PFOS 4 ng/L for PFOA 10 ng/L for PFHxS 10 ng/L for PFNA 10 ng/L for HFPO-DA (commonly known as GenX chemicals)

This permit requires the implementation of stormwater control measures, including Best Management Practices (BMPs) and operational activities that keep the stormwater clean and free from contaminants. These practices will also slow the velocity of stormwater or retain as much of the stormwater on the facility as possible, to reduce the stormwaters contribution to peak stream flows and to minimize the potential to transport sediment and pollutants from industrial facilities to waters of the state.

This general permit is intended to regulate stormwater (rain, snow, and snowmelt) runoff which comes into contact with industrial activities and significant materials (materials which have the potential to cause contamination). The quantities and types of stormwater discharged are dependent on many variables, including the type of industrial activity that the facility is engaged in (sector of industry), the size of the industrial facility and surrounding footprint, and the type and intensity of the runoff event. Because there are twenty-nine sectors of industry covered by the permit, there is a wide variety of pollutants of concern and those pollutants are based on the type of industrial operation being regulated and the materials it uses. A full description of the monitoring parameters required for each sector are listed in Appendix B.

### Monitoring

The Industrial Stormwater Multi-Sector General Permit uses monitoring in two distinct manners: 1) as an indicator to determine if stormwater controls/BMPs that the Permittee has implemented at the facility are performing effectively; and 2) to demonstrate compliance with any numeric technology-based or water quality-based effluent limits.

Under this permit, the narrative effluent limits (Technology-based Effluent Limits (TBELs) & Water Quality-based Effluent Limitations (WQBELs)) are met through adaptive management in response to inspections and benchmark monitoring. The monitoring is intended to give quantitative estimates of pollutant concentrations in industrial stormwater discharges which can be compared to benchmark values. This method assures that the facility will be properly managing the stormwater which contacts industrial materials and activities. Analytical monitoring also allows the Agency to have numeric data for future program consideration.

Benchmark values are used as indicators to determine whether the stormwater control measures used to meet TBELs and WQBELs are working effectively. Along with gauging stormwater control performance, they act as an indicator of possible toxicity and help in identifying facilities which may require individual permits. Benchmark values do not directly represent compliance with water quality standards.

### Parameters to be Sampled.

In order to determine which parameters must be sampled for their facilities, Permittees should review the permit, which states the parameters which must be sampled for each industrial sector and subsector. Permittees must ascertain all the sector/subsectors which apply to their facilities and conduct sampling for all parameters in the applicable sector/subsector. Finally, facilities must determine whether additional requirements are applicable because they are affected by special USEPA requirements due to a facility's proximity to an impaired water.

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**Table 3: Parameters Sampled by Various Sectors**

Parameters Sampled		
Alpha Terpineol	Chromium	Pentachlorophenol
Aluminum	Copper	pH
Ammonia	Cyanide	Phenol
Aniline	Ethylbenzene	Phosphorus
Antimony	Fluoride	Pyridine
Arsenic	Lead	Selenium
Benzene	Naphthalene	Silver
Benzoic Acid	Nickel	Toluene
Cadmium	Nitrate + Nitrate Nitrogen	Total Suspended Solids (TSS)
Carbonaceous Biochemical Oxygen Demand (CBOD)	Oil & Grease	Xylene
Chemical Oxygen Demand (COD)	P-cresol	Zinc

PFAS Parameters Sampled		
PFOS	PFOA	PFHxS
PFNA	HFPO-DA (GenX Chemicals)	

Sector-specific sampling requirements can be found in Appendix B and Appendix C of this fact sheet.

### USEPA Effluent Limits

In complying with Minn. R. 7053.0225, subp. 1 (A), the Agency has also complied with the USEPA technology-based determinations of appropriate effluent limits in this permit. The USEPA technology based ELGs are published at 40 CFR pts. 411, 418, 423, 436, 429, 443, and 445, and are applied to the applicable sectors as effluent limits. The following table below lists the parameters, values in daily maximums and monthly averages.

**Table 4: Applicable Effluent Limits & Associated Sectors**

Parameter	Daily Maximum (mg/L unless otherwise noted)	Monthly Average (mg/L)	Applicable Sector(s)
Alpha Terpineol	0.042	0.019	K
Alpha Terpineol	0.033	0.016	L
Ammonia	10.0	4.9	K, L
Aniline	0.024	0.015	K
Arsenic	1.1	0.54	K
Benzoic Acid	0.119	0.073	K
Benzoic Acid	0.12	0.071	L
BOD	220	56	K
BOD	140	37	L
Chromium	1.1	0.46	K
Fluoride	75	25	B
Naphthalene	0.059	0.022	K
Oil & Grease	15	10	D
p-Cresol	0.024	0.015	K
p-Cresol	0.025	0.014	L

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pH	6-9 Standard Units		D, E, J, K, L
Phenol	0.048	0.029	K
Phenol	0.026	0.015	L
Phosphorus	105	35	B
Pyridine	0.72	0.25	K
TSS	No debris greater than 1-inch round opening	N/A	A
TSS	23	15	D
TSS	50	N/A	E
TSS	45	25	J
TSS	88	27	K, L
Zinc	0.535	0.296	K
Zinc	0.20	0.11	L

### Changes for the 2025 Permit

This draft permit will replace the previous permit set to expire in April 2025. Although the format of the permit has not changed considerably, the conditions of the draft permit remain largely the same as the previous permit. Many of the permit provisions were rewritten, combined, or split apart without changing the policy, meaning or expectation, however, some changes were made. The following is a summary of the permit revisions proposed for the 2025 general permit:

- 1) **Salt storage, management, and use at the facility (If present at the facility):** Added requirement to document within the SWPPP how the facility employees and/or hired contractors will minimize runoff from the use of salt or other de-icing/anti-icing materials used on the facility property.
- 2) **Management of Runoff:** Added language requiring outlet protection measures to prevent erosion at stormwater discharge locations. Added language requiring permittees to take action to prevent the discharge of stormwater to or from areas that have been impacted by the release of a pollutant or contaminant. This includes preventing potential pollutant mobilization through subsurface soils. Added language requiring permittees to take action to prevent Industrial stormwater ponds and infiltration systems must not contribute to pollutant or contaminant spreading to a greater extent or magnitude in locations where pollutants or contaminants exist in the soil or in the shallow aquifer. A qualified professional (e.g. professional hydrogeologist, engineer, etc.) shall conduct a site analysis evaluating for extent and magnitude of impacted soil and groundwater and file a report with the SWPPP for any pollutant or contaminant on-site.
- 3) **BMP Maintenance:** Added requirement for maintenance plans for stormwater sedimentation and infiltration basins to be included in within the permittee's SWPPP. The plans must include but aren't limited to information detailing how the basin will be maintained and monitored to ensure effectiveness. The plans must include a description of the minimal maintenance frequency that will be implemented. There shall be no outflow from the stormwater sedimentation basin while sediment is being removed from the basin. Permanent erosion control, such as rip rap, splash pads, or gabions shall be installed at the outlet(s) to prevent downstream erosion.
- 4) **Employee Training Program:** Added language that requires that facility employees are familiar with stormwater plans, requirements, and BMPs at the facility. Requirement for individuals to receive proper training depending on their responsibilities. Added language to include employees who are responsible for conducting winter maintenance. At a minimum, the Permittee shall ensure that the following individuals receive training:
  - a. Employee(s) responsible for writing, revising, and implementing the SWPPP.
  - b. Employee(s) responsible for installing, inspecting, maintaining, and repairing BMPs.
  - c. Employee(s) whose work involves the regulated industrial activity, including but not limited to loading/unloading areas, processing areas, waste and fluid management areas, fueling areas, and vehicle maintenance areas.



- d. Employee(s) who conduct stormwater discharge monitoring.
  - e. Employee(s) responsible for conducting winter maintenance activities.
- 5) **General SWPPP Requirements:** Added SWPPP requirements from other sections into the general SWPPP requirement section. Added requirement to document BMPs used to manage runoff that diverts stormwater around areas that may contain pollutants. Added requirement to include the date the SWPPP was implemented and last modified.
- 6) **SWPPP Modification Requirements:** Added requirement to modify SWPPP within 30 days if a change occurs. Repeated the requirement to include the date the SWPPP was implemented and last modified.
- 7) **Special and Impaired Waters SWPPP Requirements.** The SWPPP must document all stormwater BMPs that are implemented to comply with Part X of this permit when an impaired or special water is identified within one mile of an industrial facility's benchmark monitoring location and where the identified impaired or special water receives discharge from the industrial facility's stormwater monitoring location. The SWPPP must contain the following components:
- 1. Industrial stormwater volume reduction and/or pollutant concentration reduction BMPs, designed to restrict industrial stormwater discharges to the designated water.
  - 2. The SWPPP must include calculations to demonstrate the effectiveness of the chosen BMPs in reducing volume and/or pollutant concentrations.
  - 3. A narrative discussion describing how the Permittee will monitor and maintain the BMPs the Permittee uses to ensure the industrial facility will sustain restricted industrial stormwater discharges.
- 8) **Where to Collect a Sample; Number of Samples.** Added language requiring that the benchmark monitoring location(s) selected by the Permittee shall be in a location that:
- 1. Is after the final down-gradient BMP from the source of industrial activity or significant materials, but prior to discharging from the Permittee's operational control.
  - 2. Minimizes or eliminates sampling of stormwater from off-site sources (run-on).
  - 3. Yields a sample that best represents the contribution of pollutants the Permittee is required to monitor for in accordance with the Benchmark Monitoring Requirements section of this permit, and that receives discharge from an area of industrial activities, processes, and significant materials exposed to stormwater.
- Added language requiring that if the Permittee submits an administrative modification to their permit, benchmark sampling will still be required for the calendar quarter in which the administrative modification was submitted to the MPCA.
- 9) **When to Collect a Sample.** Added language making it clear that the permittee should collect samples in each of the first 4 quarters after receiving coverage. Requires permittee to document an explanation in the stormwater monitoring report if unable to collect a stormwater sample.
- 10) **How to Collect a Sample.** Added language to include sheet flow sampling and creating a collection point to concentrate runoff to sample collection techniques.
- 11) **Unable to Collect a Sample.** Repeated requirement for permittee to document an explanation in the stormwater monitoring report if unable to collect a stormwater sample.
- 12) **Benchmark Values Met.** Added language to make it clear that the average of four consecutive quarterly samples are required to determine whether benchmark values were met. Added language explaining that a new impairment to a receiving waterbody can restart benchmark monitoring if the impairment is for a required parameter that is listed in the facilities sector-specific benchmark values, even if the benchmark was previously met.
- 13) **Benchmark Monitoring for New Impairment Listing to A Receiving Water.** Added language describing the conditions that a new impairment to a receiving waterbody would start or restart benchmark value monitoring. Added requirement that prior to the first full calendar quarter following the USEPA-approved listing of the impaired water, the Permittee shall submit an administrative modification application to restart benchmark

monitoring. Then the Permittee shall begin the additional monitoring for the pollutant(s) of impairment or its appropriate surrogate(s).

- 14) **Surrogates : Pollutant of Impairment. Added Nitrate impairment to surrogate list for Nitrite Plus Nitrate, Total (as N) monitoring.**
- 15) **Benchmark Values Exceeded.** Added language if any single benchmark monitoring sample is 4 times over the benchmark value, it is considered an exceedance of the benchmark value then the permittee needs to complete the steps required after a benchmark value exceedance described in 50.3.
- 16) **Benchmark Monitoring Waivers.** added language to make it clear that a benchmark monitoring waiver may be submitted during a coverage modification.
- 17) **Effluent Monitoring Procedures and Sample Collection Methods.** Added language requiring effluent monitoring location(s) selected by the Permittee shall be in a location that:
  1. Is after the final down-gradient BMP from the specific industrial activity that has a numeric effluent limit, but prior to where the discharge co-mingles with stormwater from other sources.
  2. Yields a sample that represents the contribution of the pollutants the Permittee is required to monitor for in accordance with the Sector-Specific Requirements section of this permit, and that receives discharge from an area of industrial activities, processes, and significant materials exposed to stormwater that has a numeric effluent limit. Changed the annual requirement from one to two samples for effluent monitoring. Added requirement that the two samples need to be at least 30 days apart.
- 18) **Effluent Limit Exceedances.** Removed language about grace periods that was not enforceable permit language.
- 19) **Industrial Stormwater Ponds.** Updated the title of the Recommended Pond Design Criteria to the newest version.
- 20) **Sector C. Chemical and Allied Products Manufacturing. Good Housekeeping** Added requirement to store wet cake, modified wet cake, and dried distillers' grains in an enclosed structure. Added requirement to immediately clean up any tracked or spilled organic materials that are subject to potential stormwater contact. Added requirement to remove any material tracked onto the road surface within one day of discovery. Added language prohibiting the use of detergents, emulsifiers, or dispersants to clean up spilled product except where necessary to comply with state or federal safety regulations. Added requirement to inspect the facilities stormwater infrastructure, BMPs, and milling areas weekly.
- 21) **Sector P. Land Transportation and Warehousing. Good Housekeeping.** Added language requiring permittee to prevent traction sand and traction sand loading areas from coming into contact with stormwater. Added requirement to implement sediment removal to ensure that traction sand is not discharged to surface waters.
- 22) **Sector U. Food and Kindred Products. Limitations on Authorization.** Added sugar beet piling sites to the list of examples that are prohibited from discharging wastewater or other sources of non-stormwater mixed with stormwater.
- 23) **Part IX. General provisions. Operation and Maintenance.** Removed all language about backup facilities.
- 24) **Part X. Additional requirements for discharges to impaired and special (prohibited, restricted, other) waters.** Added language prohibiting discharges of stormwater to impaired waters unless the permittee complies with the provisions in the section. Added language prohibiting a stormwaters stormwater from creating a nuisance condition. Added language that requires permittees to implement stormwater control measures and BMPs in order to prevent excessive pollutants from affecting an impaired water. Added SWPPP requirements for impaired waters, including BMPs designed specifically to address an impairment, any calculations to demonstrate the effectiveness of the chosen BMPs, and a narrative describing how the permittee will monitor and maintain BMPs long term to ensure their effectiveness.

If TSS is listed as a required benchmark monitoring parameter for the Permittee's industrial sector(s) in Appendix B., a benchmark value of 65 mg/L for Total Suspended (TSS) applies to the discharge at a benchmark monitoring location, instead of 100 mg/L as specified in the sector requirements of Appendix B. If the Permittee has a waiver from the requirements to conduct benchmark monitoring, the benchmark value does not apply.

- 25) **Additional Required BMPs.** Added language to make it clear that a facility is only required to sample for TSS for outstanding resource value and impaired waters if TSS is listed as a parameter that they are required to sample for that facilities sector requirements. Removed language listing examples for BMPs.
- 26) **Part XIII. Definitions and abbreviations.** Removed language in the Benchmark Monitoring definition that was guidance for where a permittee should choose as a benchmark monitoring location. Added the definition of Benchmark Value. Added the definition of Effluent Limit. Removed language in the Effluent Monitoring definition that was guidance for where to a permittee should choose as an effluent monitoring location. Added MN Rule 7090.0080 Subp. 6 to Facility definition. Added definition of Measurable Runoff Event.
- 27) **Appendix B : Sector-specific benchmark values and effluent limitations.** Removed Iron as a sample parameter in all sectors to align with EPAs decision to suspend benchmark monitoring thresholds for iron on a lack of documented acute toxicity.
- 28) **Part XII. Per-and polyfluoroalkyl (PFAS) Monitoring and Reporting Requirements.** Added language requiring any industrial facility with a SIC code listed in Appendix D to monitor for PFAS using the procedures listed in Part XII. The Permittee must develop and implement a PFAS Stormwater Monitoring Plan for its facility, which must be reviewed and updated annually. The PFAS Stormwater Monitoring Plan must provide a detailed description of the facility's AOC monitoring location(s) and significant materials within the AOC. The PFAS Stormwater Monitoring Plan must include a facility map. The PFAS stormwater monitoring plan must be included in the facility's SWPPP and made available to the MPCA within 72 hours of a request for review.

The facility map must identify the following:

1. All identified area(s) of concern boundaries.
2. All AOC monitoring locations.
3. Drinking Water Supply Management Areas within 1 mile.
4. Class 1 Waters of the state, as defined in Minn. R. 7050.0140 , that are within 1 mile of the facility that receive stormwater discharge from the facility.

The Permittee must identify in the facility's PFAS Stormwater Monitoring Plan the individual(s) responsible for conducting the facility's PFAS stormwater monitoring. The responsible individual(s) must conduct sampling in accordance with the current edition of the U.S. EPA's Method 1633.

The Permittee shall monitor for PFAS by collecting stormwater samples from each facility's area(s) of concern (AOC) as identified in the facility's PFAS stormwater monitoring plan. The permittee shall collect samples where stormwater leaves the area of concern at the most representative location.

PFAS Stormwater samples must be collected for at least four calendar quarters. Sampling requirements begin the first full calendar quarter following the facility's coverage issuance date. Sample quarters do not need to be concurrent.

Permittees shall collect PFAS stormwater samples in each of the first 4 calendar quarters after receiving coverage. Permittees must collect samples from a measurable runoff event or acceptable snowfall event at the Area(s) of Concern, provided there is a gap of 3 days between measurable runoff events or acceptable snowfall events.

To the extent feasible, the Permittee shall attempt to collect a stormwater sample within the first 30 minutes upon the discharge reaching the area(s) of concern monitoring location(s).

All stormwater samples collected for the purpose of analyzing PFAS must be collected and analyzed in accordance with the current edition of the U.S. EPA's Method 1633 requirements.

The Permittee must submit its PFAS stormwater monitoring samples to a laboratory for analyses in accordance with U.S. EPA's Method 1633. The laboratory must also be certified by the Minnesota Department of Health (MDH) and/or registered with the MPCA or be another MPCA-approved accredited lab.

For the purpose of monitoring PFAS in stormwater, the Permittee's responsible individual(s) shall collect stormwater in the form of snow and/or in the form of precipitation from a measurable runoff event (rain or snowmelt) from each of the facility's AOC location(s). If the Permittee collects more than one sample per quarter then, the results must be averaged within the quarter.

The Permittee must submit PFAS monitoring data to the MPCA no later than the 21st day of the month following the sampling quarter.

The Permittee shall submit PFAS sampling results as follows:

Submit a quarterly PFAS Stormwater Monitoring Report to the MPCA, even if there is not a collectable amount of snow and/or measurable runoff sufficient to obtain a sample. In the absence of a collectable amount of snow and/or measurable runoff event during a quarter due to weather conditions and/or site soil characteristics, the Permittee shall complete the appropriate sections of a PFAS Stormwater Monitoring Report, providing an explanation as to why a sample was not able to be collected, and submit the report to the MPCA.

In the absence of a measurable runoff event or acceptable snowfall event during a calendar quarter due to weather conditions, the Permittee shall complete the appropriate sections of a PFAS Monitoring Report, by providing an explanation as to why a sample was not able to be collected and submit the report to the MPCA. After collecting and analyzing four (4) separate quarterly samples, one per calendar quarter for each AOC location, the Permittee shall average the PFOS and PFOA values, in ng/L, found at each AOC location. If the Permittee collects more than one sample per quarter, then the results must be averaged within the quarter.

For averaging purposes, the Permittee must use a value of zero for any sample result the laboratory reports that is less than the method detection limit. For results the laboratory reports as falling between the method detection level and the quantitation limit (i.e.: a confirmed detection, but below the level that can be reliably quantified), the Permittee shall use a value halfway between zero and the quantitation limit.

PFAS Monitoring thresholds are as follows:

If the averaged results are at or greater than the following thresholds, the Permittee shall be required to complete and implement a PFAS Source and Exposure Reduction Plan (SERP).

1. 10 ng/L for PFOS
2. 10 ng/L for PFOA

An exceedance of these threshold(s) does not constitute a violation(s).

If the facility is in or within 1 mile of a Drinking Water Supply Management Area (DWSMA) as defined in Minn. R. 4720.5100, subp. 13. and/or is within one mile to a Class 1 Water of the State as defined in Minn. R. 7050.0221, which receives discharge from an Area of Concern, the thresholds for PFAS and PFOS are reduced and other pollutants have thresholds listed below:

1. 4 ng/L for PFOS
2. 4 ng/L for PFOA
3. 10 ng/L for PFHxS
4. 10 ng/L for PFNA
5. 10 ng/L for HFPO-DA (commonly known as GenX chemicals)

**Draft Permit Appendix D. Per- and polyfluoroalkyl (PFAS) Monitoring Primary SIC Codes. Listed all the SIC codes that will be required to sample for PFAS.**

\* Standard Industrial Classification (SIC) Codes subject to PFAS Monitoring Requirements

Sector	SIC Code	SIC – Nar. Act. Description *
B	2621	Paper Mills
B	2656	Sanitary Food Containers, Except Folding
B	2671	Packaging Paper and Plastics Film, Coated and Laminated
B	2672	Paper; Coated and Laminated, Nec
B	2673	Bags: Plastic, Laminated, and Coated
C	2821	"Fluoro-polymer resins manufacturing (Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers)"/Plastics Materials and Resins
C	2824	Manmade Organic Fibers, Except Cellulosic
C	2842	Specialty Cleaning, Polishing, and Sanitation Preparations
C	2844	Perfumes, Cosmetics, and Other Toilet Preparations
C	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products
C	2899	Chemicals and Chemical Preparations, Not Elsewhere Classified
D	2952	Asphalt Felts and Coatings
D	2992	Lubricating Oils and Greases
F	3399	Primary Metal Products, Not Elsewhere Classified
I	2911	Petroleum Refining
N	5093	Scrap and Waste Materials
S	4581	Airports, Flying Fields, and Services
V	2221	Broadwoven Fabric Mills, Manmade Fiber and Silk
V	2262	Finishers of Broadwoven Fabrics of Manmade Fiber and Silk
V	2273	Carpets and Rugs
V	2295	Coated Fabrics, Not Rubberized
V	2297	Non-woven Fabrics
V	2299	Textile goods, Not Elsewhere Classified
V	2299	Textile goods, Not Elsewhere Classified
V	2299	Textile Goods, Nec
V	2385	Waterproof Outerwear
V	3131	Boot and Shoe Cut Stock and Findings
V	3161	Luggage
V	3172	Personal Leather Goods, Nec
V	3199	Leather Goods, Nec
X	2752	Commercial Printing, Lithographic
X	2796	Platemaking and Related Services
Y	3069	Fabricated Rubber Products, Nec
Y	3081	Unsupported Plastics Film and Sheet
Y	3082	Unsupported Plastics Profile Shapes
Y	3083	Laminated Plastics Plate, Sheet, and Profile Shapes
Z	3111	Leather Tanning and Finishing
AA	3471	Electroplating, Plating, Polishing, Anodizing, and Coloring
AA	3497	Metal Foil and Leaf
AB	3567	Industrial Furnaces and Ovens
AB	3589	Service Industry Machinery, Not Elsewhere Classified
AB	3599	Industrial and Commercial Machinery and Equipment, Not Elsewhere Classified
AC	3674	Semiconductors and Related Devices
AC	3695	"Magnetic Tape Manufacturing Operations"/Magnetic and Optical Recording Media

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AC	3841	Surgical and Medical Instruments and Apparatus
AC	3861	Photographic Equipment and Supplies

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### **References:**

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### Appendix A. Authorized Sectors of Industrial Activities

Eligibility for this permit is limited to facilities with an industrial activity (SIC code(s) or narrative activity) as defined in 40 CFR § 122.26(b)(14)(i)-(xi). Industrial activities have been grouped into 29 sectors as summarized in Table 5 of this Appendix. All references to sectors or subsectors in this permit refer to these groupings. Note: Narrative activities are those industrial activities that are described by a narrative (rather than an SIC code) and/or having a numeric effluent limit. Examples include, but are not limited to, sectors E, K, L, O, and T.

* Standard Industrial Classification (SIC) codes and <b>Narrative Activities</b> (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)					
Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
A	Timber Products	A1	General Sawmills/Planing Mills	2421	Sawmills and Planing Mills, General
		A2	Wood Preserving	2491	Wood Preserving
		A3	Log Storage and Handling	2411	Logging
		A4	Discharges From Wet Decking Storage Areas	ANEL1	Discharges From Wet Decking Storage Areas
		A5	Hardwood Dimension and Flooring Mills	2426	Hardwood Dimension and Flooring Mills
				2429	Special Product Sawmills, Not Elsewhere Classified
				2431	Millwork
				2435	Hardwood Veneer and Plywood
				2436	Softwood Veneer and Plywood
				2439	Structural Wood Members, Not Elsewhere Classified
				2448	Wood Pallets and Skids
				2449	Wood Containers, Not Elsewhere Classified
				2451	Mobile Homes
				2452	Prefabricated Wood Buildings and Components
				2493	Reconstituted Wood Products
				2499	Wood Products, Not Elsewhere Classified
				2441	Nailed and Lock Corner Wood Boxes and Shook
B	Paper and Allied Products Manufacturing	B1	Pulp, Paper, Cardboard, Converted Paper and Paperboard Products	2611	Pulp Mills
				2621	Paper Mills
				2631	Paperboard Mills
				2652	Setup Paperboard Boxes
				2653	Corrugated and Solid Fiber Boxes
				2655	Fiber Cans, Tubes, Drums, and Similar Products
				2656	Sanitary Food Containers, Except Folding
				2657	Folding Paperboard Boxes, Including Sanitary
				2671	Packaging Paper and Plastics Film, Coated and Laminated



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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				2672	Coated and Laminated Paper, Not Elsewhere Classified
				2673	Plastics, Foil, and Coated Paper Bags
				2674	Uncoated Paper and Multiwall Bags
				2675	Die-Cut Paper and Paperboard and Cardboard
				2676	Sanitary Paper Products
				2677	Envelopes
				2678	Stationery, Tablets, and Related Products
				2679	Converted Paper and Paperboard Products, Not Elsewhere Classified
C	Chemical and Allied Products Manufacturing	C1	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products	CNEL2	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products
		C2	Agricultural Chemicals	2873	Nitrogenous Fertilizers
				2874	Phosphatic Fertilizers
				2875	Fertilizers, Mixing Only
				2879	Pesticides and Agricultural Chemicals, Not Elsewhere Classified
		C3	Industrial Inorganic Chemicals	2812	Alkalies and Chlorine
				2813	Industrial Gases
				2816	Inorganic Pigments
				2819	Industrial Inorganic Chemicals, Not Elsewhere Classified
		C4	Soaps, Detergents, Cosmetics, Perfumes	2841	Soap and Other Detergents, Except Specialty Cleaners
				2842	Specialty Cleaning, Polishing, and Sanitation Preparations
				2843	Surface Active Agents, Finishing Agents, Sulfonated Oils, and Assistants
				2844	Perfumes, Cosmetics, and Other Toilet Preparations
		C5	Plastics, Synthetics, Resins	2821	Plastics Materials, Synthetic Resins, and Nonvulcanizable Elastomers
				2822	Synthetic Rubber (Vulcanizable Elastomers)
				2823	Cellulosic Manmade Fibers
				2824	Manmade Organic Fibers, Except Cellulosic
				3952	Lead Pencils, Crayons, and Artists' Materials
		C6	Medicinal Chemicals and Botanical Products	2833	Medicinal Chemicals and Botanical Products

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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				2834	Pharmaceutical Preparations
				2835	In Vitro and In Vivo Diagnostic Substances
				2836	Biological Products, Except Diagnostic Substances
				2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products
				2861	Gum and Wood Chemicals
				2865	Cyclic Organic Crudes and Intermediates, and Organic Dyes and Pigments
				2869	Industrial Organic Chemicals, Not Elsewhere Classified
				2891	Adhesives and Sealants
				2892	Explosives
				2893	Printing Ink
				2895	Carbon Black
				2899	Chemicals and Chemical Preparations, Not Elsewhere Classified
		C7	Ethanol Facilities	2869	Industrial Organic Chemicals, Not Elsewhere Classified
D	Asphalt Paving and Roofing Materials and Lubricant Manufacturing	D1	Asphalt Paving and Roofing Materials	2951	Asphalt Paving Mixtures and Blocks
				2952	Asphalt Felts and Coatings
		D2	Discharges from Production of Asphalt Emulsions Areas	DNEL3	Asphalt Paving Mixtures and Blocks
				DNEL3	Asphalt Felts and Coatings
		D3	Miscellaneous Products of Petroleum and Coal	2992	Lubricating Oils and Greases
				2999	Products of Petroleum and Coal, Not Elsewhere Classified
E	Glass, Clay, Cement, Concrete, and Gypsum Products	E1	Clay Products Manufacturers	3251	Brick and Structural Clay Tile
				3253	Ceramic Wall and Floor Tile
				3255	Clay Refractories

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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				3259	Structural Clay Products, Not Elsewhere Classified
				3261	Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories
				3262	Vitreous China Table and Kitchen Articles
				3263	Fine Earthenware (Whiteware) Table and Kitchen Articles
				3264	Porcelain Electrical Supplies
				3269	Pottery Products, Not Elsewhere Classified
		E2	Concrete and Gypsum Product Manufacturers	3271	Concrete Block and Brick
				3272	Concrete Products, Except Block and Brick
				3273	Ready-Mixed Concrete
				3274	Lime
				3275	Gypsum Products
		E3	Cement Manufacturing Facility, Material Storage Runoff	CMF	Cement Manufacturing Facility, Material Storage Runoff
		E4	Glass, Stone, Abrasive, and Asbestos Manufacturing.	3211	Flat Glass
				3221	Glass Containers
				3229	Pressed and Blown Glass and Glassware, Not Elsewhere Classified
				3231	Glass Products, Made of Purchased Glass
				3241	Cement, Hydraulic
				3281	Cut Stone and Stone Products
				3291	Abrasive Products
				3295	Minerals and Earths, Ground or Otherwise Treated
				3296	Mineral Wool
				3297	Nonclay Refractories
				3299	Nonmetallic Mineral Products, Not Elsewhere Classified
F	Primary Metals	F1	Steel Works, Blast Furnaces, and Rolling and Finishing Mills	3312	Steel Works, Blast Furnaces (Including Coke Ovens), and Rolling Mills
				3313	Electrometallurgical Products, Except Steel
				3315	Steel Wiredrawing and Steel Nails and Spikes
				3316	Cold-Rolled Steel Sheet, Strip, and Bars
				3317	Steel Pipe and Tubes
		F2	Iron and Steel Foundries	3321	Gray and Ductile Iron Foundries
				3322	Malleable Iron Foundries
				3324	Steel Investment Foundries
				3325	Steel Foundries, Not Elsewhere Classified

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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
		F3	Rolling, Drawing, and Extruding of Nonferrous Metals	3351	Rolling, Drawing, and Extruding Of Copper
				3353	Aluminum Sheet, Plate, and Foil
				3354	Aluminum Extruded Products
				3355	Aluminum Rolling and Drawing, Not Elsewhere Classified
				3356	Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum
				3357	Drawing and Insulating of Nonferrous Wire
		F4	Nonferrous Foundries	3363	Aluminum Die-Castings
				3364	Nonferrous Die-Castings, Except Aluminum
				3365	Aluminum Foundries
				3366	Copper Foundries
				3369	Nonferrous Foundries, Except Aluminum and Copper
		F5	Primary & Secondary Smelting and Refining of Nonferrous Metals and Miscellaneous Primary Metal Products	3331	Primary Smelting and Refining of Copper
				3334	Primary Production of Aluminum
				3339	Primary Smelting and Refining of Nonferrous Metals, Except Copper and Aluminum
				3341	Secondary Smelting and Refining of Nonferrous Metals
				3398	Metal Heat Treating
				3399	Primary Metal Products, Not Elsewhere Classified
G	Metal Mining (Ore Mining and Dressing)	G1	Active Copper Ore Mining, Dressing Facilities	1021	Copper Ores
		G2	Active Metal Mining Facilities	1011	Iron Ores
				1021	Copper Ores
				1031	Lead and Zinc Ores
				1041	Gold Ores
				1044	Silver Ores
				1061	Ferroalloy Ores, Except Vanadium
				1081	Metal Mining Services
				1094	Uranium-Radium-Vanadium Ores
				1099	Miscellaneous Metal Ores, Not Elsewhere Classified

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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
H	Coal Mines and Coal Mining-Related Facilities	H1	Coal Mines and Related Areas	1221	Bituminous Coal and Lignite Surface Mining
				1222	Bituminous Coal Underground Mining
				1231	Anthracite Mining
				1241	Coal Mining Services
I	Oil and Gas Extraction and Refining	I1	Oil and Gas Extraction	1311	Crude Petroleum and Natural Gas
				1321	Natural Gas Liquids
				1381	Drilling Oil and Gas Wells
				1382	Oil and Gas Field Exploration Services
				1389	Oil and Gas Field Services, Not Elsewhere Classified
		I2	Oil Refining	2911	Petroleum Refining
J	Mineral Mining and Dressing	J1	Sand and Gravel Mining	1442	Construction Sand and Gravel
				1446	Industrial Sand
		J2	Dimension, Crushed Stone, Nonmetallic Minerals	1411	Dimension Stone
				1422	Crushed and Broken Limestone
				1423	Crushed and Broken Granite
				1429	Crushed and Broken Stone, Not Elsewhere Classified
				1481	Nonmetallic Minerals Services, Except Fuels
				1499	Miscellaneous Nonmetallic Minerals, Except Fuels
		J3	Clay, Ceramic, Refractory Materials, Chemical and Fertilizer Mineral Mining	1455	Kaolin and Ball Clay
				1459	Clay, Ceramic, and Refractory Minerals, Not Elsewhere Classified
				1474	Potash, Soda, and Borate Minerals
				1475	Phosphate Rock
				1479	Chemical and Fertilizer Mineral Mining, Not Elsewhere Classified

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* Standard Industrial Classification (SIC) codes and <b>Narrative Activities</b> (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)					
Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
K	Hazardous Waste Treatment, Storage, or Disposal Facilities	K1	Industrial Activity Code HZ. Benchmark Parameters Only Applicable To Discharges Not Subject To Effluent Limitations In 40 CFR Part 445 Subpart A	HZ1	Industrial Activity Code HZ. Benchmark Parameters Only Applicable To Discharges Not Subject To Effluent Limitations In 40 CFR Part 445 Subpart A
		K2	Discharges From Hazardous Waste Landfills Subject To Effluent Limitations In 40 CFR Part 445 Subpart A	HZ2	Discharges From Hazardous Waste Landfills Subject To Effluent Limitations In 40 CFR Part 445 Subpart A
L	Landfills and Land Application Sites	L1	Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60	LF1	Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60
		L2	Any Open Or Closed Non-Hazardous Waste Landfills And Land Application Sites, Which Do Not Discharge To <b>Surface Water(s), Stormwater</b> That Has Directly Contacted Solid Waste	LF2	Any Open Or Closed Non-Hazardous Waste Landfills And Land Application Sites, Which Do Not Discharge To <b>Surface Water(s), Stormwater</b> That Has Directly Contacted Solid Waste
		L3	Any Landfill That Discharges To <b>Surface Water(s), Stormwater</b> That Has Directly Contacted Solid Waste (pursuant to 40 CFR pt. 445, subp. B.)	LF3	Any Landfill That Discharges To <b>Surface Water(s), Stormwater</b> That Has Directly Contacted Solid Waste (pursuant to 40 CFR pt. 445, subp. B.)
M	Automobile Salvage Yards	M1	Automobile Salvage Yards	5015	Motor Vehicle Parts, Used
N	Scrap Recycling and Waste Recycling Facilities	N1	Scrap Recycling Facilities	5093	Scrap and Waste Materials
O	Steam Electric Generating Facilities	O1	Coal Fired and Oil Fired Steam Electric Generating Facilities	SE1	Coal Fired and Oil Fired Steam Electric Generating Facilities
		O2	Nuclear, Natural Gas Fired, And Any Other Fuel Source Used For Steam Electric Generation	SE2	Nuclear, Natural Gas Fired, And Any Other Fuel Source Used For Steam Electric Generation

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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
		O3	Runoff from coal storage piles at steam electric generating facilities	SE3	Runoff from coal storage piles at steam electric generating facilities
P	Land Transportation and Warehousing	P1	Rail Transportation Facilities	4011	Railroads, Line-Haul Operating
				4013	Railroad Switching and Terminal Establishments
		P2	Petroleum Bulk Oil Stations and Terminals	5171	Petroleum Bulk stations and Terminals
		P3	Motor Vehicle Facilities	4111	Local and Suburban Transit
				4119	Local Passenger Transportation, Not Elsewhere Classified
				4121	Taxicabs
				4131	Intercity and Rural Bus Transportation
				4141	Local Bus Charter Service
				4142	Bus Charter Service, Except Local
				4151	School Buses
				4173	Terminal and Service Facilities for Motor Vehicle Passenger Transportation
				4212	Local Trucking Without Storage
				4213	Trucking, Except Local
				4214	Local Trucking With Storage
				4215	Courier Services, Except by Air
				4226	Special Warehousing and Storage, Not Elsewhere Classified
				4231	Terminal and Joint Terminal Maintenance Facilities for Motor Freight Transportation
				4311	United States Postal Service
		P4	Warehousing and Storage: General Warehousing, Farm Product Warehousing, Refrigerated Warehousing	4221	Farm Product Warehousing and Storage
				4222	Refrigerated Warehousing and Storage
				4225	General Warehousing and Storage
Q	Water Transportation	Q1	Water Transportation Facilities	4412	Deep Sea Foreign Transportation of Freight
				4424	Deep Sea Domestic Transportation of Freight
				4432	Freight Transportation on the Great Lakes-St. Lawrence Seaway

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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				4449	Water Transportation of Freight, Not Elsewhere Classified
				4481	Deep Sea Transportation of Passengers, Except by Ferry
				4482	Ferries
				4489	Water Transportation of Passengers, Not Elsewhere Classified
				4491	Marine Cargo Handling
				4492	Towing and Tugboat Services
				4493	Marinas
				4499	Water Transportation Services, Not Elsewhere Classified
R	Ship and Boat Building and Repair Yards	R1	Ship and Boat Building and Repairing Yards	3731	Ship Building and Repairing
				3732	Boat Building and Repairing
S	Air Transportation	S1	Airports that use more than 100,000 gallons or more of glycol-based deicing/anti-icing chemicals and/or 100 tons or more of urea on an average annual basis.	4512	Air Transportation, Scheduled
				4513	Air Courier Services
				4522	Air Transportation, Nonscheduled
				4581	Airports, Flying Fields, and Airport Terminal Services
		S2	Airports that use less than 100,000 gallons of glycol-based deicing/anti-icing chemicals and/or less than 100 tons of urea on an average annual basis.	4512	Air Transportation, Scheduled
				4513	Air Courier Services
				4522	Air Transportation, Nonscheduled
				4581	Airports, Flying Fields, and Airport Terminal Services
		S3	Existing and new primary airports with 1,000 or more annual jet departures that	SNEL4	Air Transportation, Scheduled
				SNEL4	Air Courier Services
				SNEL4	Air Transportation, Nonscheduled



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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
			discharge wastewater associated with airfield pavement deicing that contains urea commingled with <b>stormwater</b> .	SNEL4	Airports, Flying Fields, and Airport Terminal Services
T	Treatment Works	T1	Treatment Works	TW	Treatment Works
U	Food and Kindred Products	U1	Grain Mill Products	2041	Flour and Other Grain Mill Products
				2043	Cereal Breakfast Foods
				2044	Rice Milling
				2045	Prepared Flour Mixes and Doughs
				2046	Wet Corn Milling
				2047	Dog and Cat Food
				2048	Prepared Feed and Feed Ingredients for Animals and Fowls, Except Dogs and Cats
		U2	Fats and Oils Products	2074	Cottonseed Oil Mills
				2075	Soybean Oil Mills
				2076	Vegetable Oil Mills, Except Corn, Cottonseed, and Soybean
				2077	Animal and Marine Fats and Oils
				2079	Shortening, Table Oils, Margarine, and Other Edible Fats and Oils, Not Elsewhere Classified
		U3	Food and Tobacco Products, Food Preparation Facilities	2011	Meat Packing Plants
				2013	Sausages and Other Prepared Meat Products
				2015	Poultry Slaughtering and Processing
				2021	Creamery Butter
				2022	Natural, Processed, and Imitation Cheese
				2023	Dry, Condensed, and Evaporated Dairy Products
				2024	Ice Cream and Frozen Desserts
				2026	Fluid Milk
				2032	Canned Specialties
				2033	Canned Fruits, Vegetables, Preserves, Jams, and Jellies
				2034	Dried and Dehydrated Fruits, Vegetables, and Soup Mixes
				2035	Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings, and Salad Dressings
				2037	Frozen Fruits, Fruit Juices, and Vegetables
				2038	Frozen Specialties, Not Elsewhere Classified

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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				2051	Bread and Other Bakery Products, Except Cookies and Crackers
				2052	Cookies and Crackers
				2053	Frozen Bakery Products, Except Bread
				2061	Cane Sugar, Except Refining
				2062	Cane Sugar Refining
				2063	Beet Sugar
				2064	Candy and Other Confectionery Products
				2066	Chocolate and Cocoa Products
				2067	Chewing Gum
				2068	Salted and Roasted Nuts and Seeds
				2082	Malt Beverages
				2083	Malt
				2084	Wines, Brandy, and Brandy Spirits
				2085	Distilled and Blended Liquors
				2086	Bottled and Canned Soft Drinks and Carbonated Waters
				2087	Flavoring Extracts and Flavoring Syrups, Not Elsewhere Classified
				2091	Canned and Cured Fish and Seafoods
				2092	Prepared Fresh or Frozen Fish and Seafoods
				2095	Roasted Coffee
				2096	Potato Chips, Corn Chips, and Similar Snacks
				2097	Manufactured Ice
				2098	Macaroni, Spaghetti, Vermicelli, and Noodles
				2099	Food Preparations, Not Elsewhere Classified
				2111	Cigarettes
				2121	Cigars
				2131	Chewing and Smoking Tobacco and Snuff
				2141	Tobacco Stemming and Redrying
V	Textile Mills, Apparel, and Other Fabric Products Manufacturing	V1	Textile, Fabric, & Apparel Manufacturing, Leather & Leather Products	2211	Broadwoven Fabric Mills, Cotton
				2221	Broadwoven Fabric Mills, Manmade Fiber and Silk
				2231	Broadwoven Fabric Mills, Wool (Including Dyeing and Finishing)
				2241	Narrow Fabric and Other Smallware Mills: Cotton, Wool, Silk, and Manmade Fiber

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\* Standard Industrial Classification (SIC) codes and **Narrative Activities** (Nar. Act.) are defined by 122.26 (b)(14)(i)-(xi), except (x)

Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				2251	Women's Full-Length and Knee-Length Hosiery, Except Socks
				2252	Hosiery, Not Elsewhere Classified
				2253	Knit Outerwear Mills
				2254	Knit Underwear and Nightwear Mills
				2257	Weft Knit Fabric Mills
				2258	Lace and Warp Knit Fabric Mills
				2259	Knitting Mills, Not Elsewhere Classified
				2261	Finishers of Broadwoven Fabrics of Cotton
				2262	Finishers of Broadwoven Fabrics of Manmade Fiber and Silk
				2269	Finishers of Textiles, Not elsewhere Classified
				2273	Carpets and Rugs
				2281	Yarn Spinning Mills
				2282	Yarn Texturizing, Throwing, Twisting, and Winding Mills
				2284	Thread Mills
				2295	Coated Fabrics, Not Rubberized
				2296	Tire Cord and Fabrics
				2297	Non-woven Fabrics
				2298	Cordage and Twine
				2299	Textile goods, Not Elsewhere Classified
				2311	Men's and Boys' Suits, Coats, and Overcoats
				2321	Men's and Boys' Shirts, Except Work Shirts
				2322	Men's and Boys' Underwear and Nightwear
				2323	Men's and Boys' Neckwear
				2325	Men's and Boys' Separate Trousers and Slacks
				2326	Men's and Boys' Work Clothing
				2329	Men's and Boys' Clothing, Not Elsewhere Classified
				2331	Women's, Misses', and Juniors' Blouses and Shirts
				2335	Women's, Misses', and Juniors' Dresses
				2337	Women's, Misses', and Juniors' Suits, Skirts, and Coats
				2339	Women's, Misses', and Juniors' Outerwear, Not Elsewhere Classified
				2341	Women's, Misses', Children's, and Infants' Underwear and Nightwear
				2342	Brassieres, Girdles, and Allied Garments
				2353	Hats, Caps, and Millinery
				2361	Girls', Children's, and Infants' Dresses, Blouses, and Shirts

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Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				2369	Girls', Children's, and Infants' Outerwear, Not Elsewhere Classified
				2371	Fur Goods
				2381	Dress and Work Gloves, Except Knit and All-Leather
				2384	Robes and Dressing Gowns
				2385	Waterproof Outerwear
				2386	Leather and Sheep-Lined Clothing
				2387	Apparel belts
				2389	Apparel and Accessories, Not Elsewhere Classified
				2391	Curtains and Draperies
				2392	House furnishing, Except Curtains and Draperies
				2393	Textile Bags
				2394	Canvas and Related Products
				2395	Pleating, Decorative and Novelty Stitching, and Tucking for the Trade
				2396	Automotive Trimmings, Apparel Findings, and Related Products
				2397	Schiffli Machine Embroideries
				2399	Fabricated Textile Products, Not Elsewhere Classified
				3131	Boot and Shoe Cut Stock and Findings
				3142	House Slippers
				3143	Men's Footwear, Except Athletic
				3144	Women's Footwear, Except Athletic
				3149	Footwear, Except Rubber, Not Elsewhere Classified
				3151	Leather Gloves and Mittens
				3161	Luggage
				3171	Women's Handbags and Purses
				3172	Personal Leather Goods, Except Women's Handbags and Purses
				3199	Leather Goods, Not Elsewhere Classified
W	Furniture and Fixtures	W1	Furniture and Fixtures	2434	Wood Kitchen Cabinets
				2511	Wood Household Furniture, Except Upholstered
				2512	Wood Household Furniture, Upholstered
				2514	Metal Household Furniture
				2515	Mattresses, Foundations, and Convertible Beds
				2517	Wood Television, Radio, Phonograph, and Sewing Machine Cabinets

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Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				2519	Household Furniture, Not Elsewhere Classified
				2521	Wood Office Furniture
				2522	Office Furniture, Except Wood
				2531	Public Building and Related Furniture
				2541	Wood Office and Store Fixtures, Partitions, Shelving, and Lockers
				2542	Office and Store Fixtures, Partitions, Shelving, and Lockers, Except Wood
				2591	Drapery Hardware and Window Blinds and Shades
				2599	Furniture and Fixtures, Not Elsewhere Classified
X	Printing and Publishing	X1	Printing and Publishing	2711	Newspapers: Publishing, or Publishing and Printing
				2721	Periodicals: Publishing, or Publishing and Printing
				2731	Books: Publishing, or Publishing and Printing
				2732	Book Printing
				2741	Miscellaneous Publishing
				2752	Commercial Printing, Lithographic
				2754	Commercial Printing, Gravure
				2759	Commercial Printing, Not Elsewhere Classified
				2761	Manifold Business Forms
				2771	Greeting Cards
				2782	Blankbooks, Looseleaf Binders and Devices
				2789	Bookbinding and Related Work
				2791	Typesetting
				2796	Platemaking and Related Services
Y	Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries	Y1	Fabricated Rubber Products	3011	Tires and Inner Tubes
				3021	Rubber and Plastics Footwear
				3052	Rubber and Plastics Hose and Belting
				3053	Gaskets, Packing, and Sealing Devices
				3061	Molded, Extruded, and Lathe-Cut Mechanical Rubber Goods
				3069	Fabricated Rubber Products, Not Elsewhere Classified

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Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
		Y2	Plastic Products	3081	Unsupported Plastics Film and Sheet
				3082	Unsupported Plastics Profile Shapes
				3083	Laminated Plastics Plate, Sheet, and Profile Shapes
				3084	Plastics Pipe
				3085	Plastics Bottles
				3086	Plastics Foam Products
				3087	Custom Compounding of Purchased Plastics Resins
				3088	Plastics Plumbing Fixtures
				3089	Plastics Products, Not Elsewhere Classified
				3931	Musical Instruments
				3942	Dolls and Stuffed Toys
				3944	Games, Toys, and Children's Vehicles, Except Dolls and Bicycles
				3949	Sporting and Athletic Goods, Not Elsewhere Classified
				3951	Pens, Mechanical Pencils, and Parts
				3953	Marking Devices
				3955	Carbon Paper and Inked Ribbons
				3961	Costume Jewelry and Costume Novelties, Except Precious Metal
				3965	Fasteners, Buttons, Needles, and Pins
				3991	Brooms and Brushes
				3993	Signs and Advertising Specialties
				3995	Burial Caskets
				3996	Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, Not Elsewhere Classified
				3999	Manufacturing Industries, Not Elsewhere Classified
Z	Leather Tanning and Finishing	Z1	Leather Tanning and Finishing	3111	Leather Tanning and Finishing
AA	Fabricated Metal Products	AA1	Fabricated Metal Products	3411	Metal Cans
				3412	Metal Shipping Barrels, Drums, Kegs, and Pails
				3421	Cutlery
				3423	Hand and Edge Tools, Except Machine Tools and Handsaws
				3425	Saw Blades and Handsaws
				3429	Hardware, Not Elsewhere Classified

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Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				3431	Enameled Iron and Metal Sanitary Ware
				3432	Plumbing Fixture Fittings and Trim
				3433	Heating Equipment, Except Electric and Warm Air Furnaces
				3441	Fabricated Structural Metal
				3442	Metal Doors, Sash, Frames, Molding, and Trim Manufacturing
				3443	Fabricated Plate Work (Boiler Shops)
				3444	Sheet Metal Work
				3446	Architectural and Ornamental Metal Work
				3448	Prefabricated Metal Buildings and Components
				3449	Miscellaneous Structural Metal Work
				3451	Screw Machine Products
				3452	Bolts, Nuts, Screws, Rivets, and Washers
				3462	Iron and Steel Forgings
				3463	Nonferrous Forgings
				3465	Automotive Stampings
				3466	Crowns and Closures
				3469	Metal Stampings, Not Elsewhere Classified
				3471	Electroplating, Plating, Polishing, Anodizing, and Coloring
				3482	Small Arms Ammunition
				3483	Ammunition, Except for Small Arms
				3484	Small Arms
				3489	Ordnance and Accessories, Not Elsewhere Classified
				3491	Industrial Valves
				3492	Fluid Power Valves and Hose Fittings
				3493	Steel Springs, Except Wire
				3494	Valves and Pipe Fittings, Not Elsewhere Classified
				3495	Wire Springs
				3496	Miscellaneous Fabricated Wire Products
				3497	Metal Foil and Leaf
				3498	Fabricated Pipe and Pipe Fittings
				3499	Fabricated Metal Products, Not Elsewhere Classified
				3911	Jewelry, Precious Metal
				3914	Silverware, Plated Ware, and Stainless Steel Ware
				3915	Jewelers' Findings and Materials, and Lapidary Work
		AA2	Fabricated Metal Coating and Engraving	3479	Coating, Engraving, and Allied Services, Not Elsewhere Classified

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Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
AB	Transportation Equipment and Industrial or Commercial Machinery	AB1	Transportation Equipment and Industrial or Commercial Machinery	3511	Steam, Gas, and Hydraulic Turbines, and Turbine Generator Set Units
				3519	Internal Combustion Engines, Not Elsewhere Classified
				3523	Farm Machinery and Equipment
				3524	Lawn and Garden Tractors and Home Lawn and Garden Equipment
				3531	Construction Machinery and Equipment
				3532	Mining Machinery and Equipment, Except Oil and Gas Field Machinery and Equipment
				3533	Oil and Gas Field Machinery and Equipment
				3534	Elevators and Moving Stairways
				3535	Conveyors and Conveying Equipment
				3536	Overhead Traveling Cranes, Hoists, and Monorail Systems
				3537	Industrial Trucks, Tractors, Trailers, and Stackers
				3541	Machine Tools, Metal Cutting Types
				3542	Machine Tools, Metal Forming Types
				3543	Industrial Patterns
				3544	Special Dies and Tools, Die Sets, Jigs and Fixtures, and Industrial Molds
				3545	Cutting Tools, Machine Tool Accessories, and Machinists' Precision Measuring Devices
				3546	Power-Driven Hand Tools
				3547	Rolling Mill Machinery and Equipment
				3548	Electric and Gas Welding and Soldering Equipment
				3549	Metalworking Machinery, Not Elsewhere Classified
				3552	Textile Machinery
				3553	Woodworking Machinery
				3554	Paper Industries Machinery
				3555	Printing Trades Machinery and Equipment
				3556	Food Products Machinery
				3559	Special Industry Machinery, Not Elsewhere Classified
				3561	Pumps and Pumping Equipment



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Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				3562	Ball and Roller Bearings
				3563	Air and Gas Compressors
				3564	Industrial and Commercial Fans and Blowers and Air Purification Equipment
				3565	Packaging Machinery
				3566	Speed Changers, Industrial High-Speed Drives, and Gears
				3567	Industrial Process Furnaces and Ovens
				3568	Mechanical Power Transmission Equipment, Not Elsewhere Classified
				3569	General Industrial Machinery and Equipment, Not Elsewhere
				3581	Automatic Vending Machines
				3582	Commercial Laundry, Dry Cleaning, and Pressing Machines
				3585	Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment
				3586	Measuring and Dispensing Pumps
				3589	Service Industry Machinery, Not Elsewhere Classified
				3592	Carburetors, Pistons, Piston Rings, and Valves
				3593	Fluid Power Cylinders and Actuators
				3594	Fluid Power Pumps and Motors
				3596	Scales and Balances, Except Laboratory
				3599	Industrial and Commercial Machinery and Equipment, Not Elsewhere Classified
				3711	Motor Vehicles and Passenger Car Bodies
				3713	Truck and Bus Bodies
				3714	Motor Vehicle Parts and Accessories
				3715	Truck Trailers
				3716	Motor Homes
				3721	Aircraft
				3724	Aircraft Engines and Engine Parts
				3728	Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified
				3743	Railroad Equipment
				3751	Motorcycles, Bicycles, and Parts
				3761	Guided Missiles and Space Vehicles
				3764	Guided Missile and Space Vehicle Propulsion Units and Propulsion Unit Parts
				3769	Guided Missile Space Vehicle Parts and Auxiliary Equipment, Not Elsewhere Classified

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Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				3792	Travel Trailers and Campers
				3795	Tanks and Tank Components
				3799	Transportation Equipment, Not Elsewhere Classified
AC	Electronic and Electrical Equipment and Components, Photographic and Optical Goods	AC1	Electronic, Electrical, Photographic, and Optical Goods	3571	Electronic Computers
				3572	Computer Storage Devices
				3575	Computer Terminals
				3577	Computer Peripheral Equipment, Not Elsewhere Classified
				3578	Calculating and Accounting Machines, Except Electronic Computers
				3579	Office Machines, Not Elsewhere Classified
				3812	Search, Detection, Navigation, Guidance, Aeronautical, and Nautical Systems and Instruments
				3821	Laboratory Apparatus and Furniture
				3822	Automatic Controls for Regulating Residential and Commercial Environments and Appliances
				3823	Industrial Instruments for Measurement, Display, and Control of Process Variables; and Related Products
				3824	Totalizing Fluid Meters and Counting Devices
				3825	Instruments for Measuring and Testing of Electricity and Electrical Signals
				3826	Laboratory Analytical Instruments
				3827	Optical Instruments and Lenses
				3829	Measuring and Controlling Devices, Not Elsewhere Classified
				3841	Surgical and Medical Instruments and Apparatus
				3842	Orthopedic, Prosthetic, and Surgical Appliances and Supplies
				3843	Dental Equipment and Supplies
				3844	X-Ray Apparatus and Tubes and Related Irradiation Apparatus

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Sector	Sector Description	Subsector	Subsector Description	SIC – Nar. Act. *	SIC – Nar. Act. Description *
				3845	Electromedical and Electrotherapeutic Apparatus
				3851	Ophthalmic Goods
				3861	Photographic Equipment and Supplies
				3873	Watches, Clocks, Clockwork Operated Devices, and Parts
		AC2	Electronic & Electrical Equipment & Components, except Computers	3612	Power, Distribution, and Specialty Transformers
				3613	Switchgear and Switchboard Apparatus
				3621	Motors and Generators
				3624	Carbon and Graphite Products
				3625	Relays and Industrial Controls
				3629	Electrical Industrial Apparatus, Not Elsewhere Classified
				3631	Household Cooking Equipment
				3632	Household Refrigerators and Home and Farm Freezers
				3633	Household Laundry Equipment
				3634	Electric Housewares and Fans
				3635	Household Vacuum Cleaners
				3639	Household Appliances, Not Elsewhere Classified
				3641	Electric Lamp Bulbs and Tubes
				3643	Current-Carrying Wiring Devices
				3644	Noncurrent-Carrying Wiring Devices
				3645	Residential Electric Lighting Fixtures
				3646	Commercial, Industrial, and Institutional Electric Lighting Fixtures
				3647	Vehicular Lighting Equipment
				3648	Lighting Equipment, Not Elsewhere Classified
				3651	Household Audio and Video Equipment
				3652	Phonograph Records and Prerecorded Audio Tapes and Disks
				3661	Telephone and Telegraph Apparatus
				3663	Radio and Television Broadcasting and Communications Equipment
				3669	Communications Equipment, Not Elsewhere Classified
				3671	Electron Tubes
				3672	Printed Circuit Boards
				3674	Semiconductors and Related Devices
				3675	Electronic Capacitors
				3676	Electronic Resistors

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<b>Sector</b>	<b>Sector Description</b>	<b>Subsector</b>	<b>Subsector Description</b>	<b>SIC – Nar. Act. *</b>	<b>SIC – Nar. Act. Description *</b>
				3677	Electronic Coils, Transformers, and Other Inductors
				3678	Electronic Connectors
				3679	Electronic Components, Not Elsewhere Classified
				3691	Storage Batteries
				3692	Primary Batteries, Dry and Wet
				3694	Electrical Equipment for Internal Combustion Engines
				3695	Magnetic And Optical Recording Media
				3699	Electrical Machinery, Equipment, and Supplies, Not Elsewhere

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### Appendix B: Sector-Specific Benchmark Values and Effluent Limitations

Permittees may be subject to requirements for more than one sector or subsector.

\*All footnotes are located on the last page of this Appendix B.

**Table A-1**

Subsector	Parameter	Benchmark Values	Effluent limits
A1 General Sawmills/Planing Mills	COD (Chemical Oxygen Demand)	120 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>	N/A
A2 Wood Preserving	Arsenic, Total (as As)	0.680 mg/L	N/A
	Chromium, Total (as Cr)	3.5 mg/L <sup>1</sup>	N/A
	Copper, Total (as Cu)	0.028 mg/L <sup>1</sup>	N/A
	Pentachlorophenol (PCP)	0.011 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
A3 Log Storage and Handling	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
A4 Discharges From Wet Decking Storage Areas	Debris	N/A	≤2.54cm (1 inch) instantaneous maximum (visual assessment) <sup>3</sup>
	pH <sup>4</sup>	N/A	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
A5 Hardwood Dimension and Flooring Mills	COD (Chemical Oxygen Demand)	120 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A

**Table B-1**

Subsector	Parameter	Benchmark Values
B1 Pulp, Paper, Cardboard, Converted Paper and Paperboard Products	COD (Chemical Oxygen Demand)	120 mg/L
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

**Table C-1**

Subsector	Parameter	Benchmark Values	Effluent Limits
C1 Phosphate Subcategory of Agricultural Chemicals	Fluoride, Total (as F)	N/A	75 mg/L calendar year maximum
			25 mg/L calendar year average
	Phosphorus, Total (as P)	N/A	105 mg/L calendar year maximum
			35 mg/L calendar year average
C2	Lead, Total (as Pb)	0.164 mg/L <sup>1</sup>	N/A

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Subsector	Parameter	Benchmark Values	Effluent Limits
Agricultural Chemicals	Phosphorus, Total (as P)	1.0 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>	N/A
C3 Industrial Inorganic Chemicals	Aluminum, Total (as Al)	1.5 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>	N/A
C4 Soaps, Detergents, Cosmetics, Perfumes	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>	N/A
C5 Plastics, Synthetics, Resins	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>	N/A
C6 Medicinal Chemicals and Botanical Products	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
C7 Ethanol Facilities	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A

**Table D-1**

Subsector	Parameter	Benchmark Values	Effluent Limits
D1 Asphalt Paving and Roofing Materials	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
D2 Discharges from Production of Asphalt Emulsions Areas	Oil & Grease, Total	N/A	15 mg/L calendar year maximum
			10 mg/L calendar year average
	pH	N/A	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
	Solids, Total Suspended (TSS)	N/A	23 mg/L calendar year maximum
			15 mg/L calendar year average
D3 Miscellaneous Products of Petroleum and Coal	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A

Table E-1

Subsector	Parameter	Benchmark Values	Effluent Limits
E1 Clay Products Manufacturers	Aluminum, Total (as Al)	1.5 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
E2 Concrete and Gypsum Product Manufacturers	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
E3 Cement Manufacturing Facility, Material Storage Runoff	pH	N/A	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
	Solids, Total Suspended (TSS)	N/A	50 mg/L calendar year maximum
E4 Glass, Stone, Abrasive, and Asbestos Manufacturing	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A

Table F-1

Subsector	Parameter	Benchmark Values
F1 Steel Works, Blast Furnaces, and Rolling and Finishing Mills	Aluminum, Total (as Al)	1.5 mg/L
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>
F2 Iron and Steel Foundries	Aluminum, Total (as Al)	1.5 mg/L
	Copper, Total (as Cu)	0.028 mg/L <sup>1</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>
F3 Rolling, Drawing, and Extruding of Nonferrous Metals	Copper, Total (as Cu)	0.028 mg/L <sup>1</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>
F4 Nonferrous Foundries	Copper, Total (as Cu)	0.028 mg/L <sup>1</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>
F5 Primary & Secondary Smelting and Refining of Nonferrous Metals and Miscellaneous Primary Metal Products	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table G-1

Subsector	Parameter	Benchmark Values
G1 Active Copper Ore Mining, Dressing Facilities	COD (Chemical Oxygen Demand)	120 mg/L
	Nitrite Plus Nitrate, Total (as N)	0.68 mg/L
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table G-2

Sector-Specific Benchmark Monitoring Values from Waste Rock and Overburden Piles at Active Metal Mining Facilities. Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
G2 Active Metal Mining Facilities	Antimony, Total (as Sb)	0.18 mg/L
	Arsenic, Total (as As)	0.680 mg/L
	Cadmium, Total (as Cd) <sup>1</sup>	0.0078 mg/L <sup>5</sup>
	Copper, Total (as Cu) <sup>1</sup>	0.028 mg/L <sup>5</sup>
	Lead, Total (as Pb) <sup>1</sup>	0.164 mg/L <sup>5</sup>
	Nickel, Total (as Ni) <sup>1</sup>	0.938 mg/L <sup>5</sup>
	pH <sup>4</sup>	6.0-9.0 SU
	Selenium, Total (as Se)	0.040 mg/L
	Silver, Total (as Ag) <sup>1</sup>	0.0041 mg/L <sup>5</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn) <sup>1</sup>	0.234 mg/L <sup>5</sup>

Table H-1

Subsector	Parameter	Benchmark Values
H1 Coal Mines and Related Areas	Aluminum, Total (as Al)	1.5 mg/L
	pH <sup>4</sup>	6.0-9.0 SU
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table I-1

Subsector	Parameter	Benchmark Values
I1 Oil and Gas Extraction	pH <sup>4</sup>	6.0-9.0 SU
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
I2 Oil Refining	Nitrogen, Ammonia, Total (as N)	2.8 mg/L
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>



Table J-1

Subsector	Parameter	Benchmark Values
J1 Sand and Gravel Mining	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
J2 Dimension, Crushed Stone, Nonmetallic Minerals	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
J3 Clay, Ceramic, Refractory Materials, Chemical and Fertilizer Mineral Mining	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table K-1

Subsector	Parameter	Benchmark Values	Effluent Limits
K1 Industrial Activity Code HZ. Benchmark Parameters Only Applicable To Discharges Not Subject To Effluent Limitations In 40 CFR Part 445 Subpart A	Arsenic, Total (as As)	0.680 mg/L	N/A
	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	N/A
	Cadmium, Total (as Cd)	0.0078 mg/L <sub>1</sub>	N/A
	Chromium, Total (as Cr)	3.5 mg/L <sup>1</sup>	N/A
	COD (Chemical Oxygen Demand)	120 mg/L	N/A
	Cyanide, Total (as CN)	0.045 mg/L	N/A
	Lead, Total (as Pb)	0.164 mg/L <sup>1</sup>	N/A
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L	N/A
	pH <sup>4</sup>	6.0-9.0 SU	N/A
	Selenium, Total (as Se)	0.040 mg/L	N/A
	Silver, Total (as Ag)	0.0041 mg/L <sub>1</sub>	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>	N/A
K2 <sup>6</sup> Discharges From Hazardous Waste Landfills Subject To Effluent Limitations In 40 CFR Part 445 Subpart A	Alpha-Terpineol	N/A	0.042 mg/L calendar year maximum
			0.019 mg/L calendar year average
	Aniline	N/A	0.024 mg/L calendar year maximum
			0.015 mg/L calendar year average
	Arsenic, Total (as As)	N/A	1.1 mg/L calendar year maximum
			0.54 mg/L calendar year average
	Benzoic Acid	N/A	0.119 mg/L calendar year maximum
			0.073 mg/L calendar year average
	BOD, Carbonaceous 05 Day (20 Deg C)	N/A	220 mg/L calendar year maximum
			56 mg/L calendar year average
	Chromium, Total (as Cr)	N/A	1.1 mg/L calendar year maximum
			0.46 mg/L calendar year average
	Naphthalene	N/A	0.059 mg/L calendar year maximum
			0.022 mg/L calendar year average

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Subsector	Parameter	Benchmark Values	Effluent Limits
	Nitrogen, Ammonia, Total (as N)	N/A	10 mg/L calendar year maximum
			4.9 mg/L calendar year average
	p-Cresol	N/A	0.024 mg/L calendar year maximum
			0.015 mg/L calendar year average
	pH	N/A	6.0 SU, instantaneous minimum
			9.0 SU, instantaneous maximum
	Phenol	N/A	0.048 mg/L calendar year maximum
			0.029 mg/L calendar year average
	Pyridine	N/A	0.072 mg/L calendar year maximum
			0.025 mg/L calendar year average
	Solids, Total Suspended (TSS)	N/A	88 mg/L calendar year maximum
			27 mg/L calendar year average
	Zinc, Total (as Zn)	N/A	0.535 mg/L calendar year maximum
			0.296 mg/L calendar year average

**Table L-1**

Subsector	Parameter	Benchmark Values	Effluent Limits
L1 Municipal Solid Waste Landfill (MSWLF) Areas Closed In Accordance With 40 CFR § 258.60	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
L2 Any Open Or Closed Non-Hazardous Waste Landfills And Land Application Sites, Which Do Not Discharge To <b>Surface Water(s)</b> , <b>Stormwater</b> That Has Directly Contacted Solid Waste.	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
L3 <sup>6</sup> Any Landfill That Discharges To <b>Surface Water(s)</b> , <b>Stormwater</b> That Has Directly Contacted Solid Waste (pursuant to 40 CFR pt. 445, subp. B.)	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	140 mg/L calendar year maximum
			37 mg/L calendar year average
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	88 mg/L calendar year maximum
			27 mg/L calendar year average
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L	10 mg/L calendar year maximum
			4.9 mg/L calendar year average
	Alpha-Terpineol	N/A	0.033 mg/L calendar year maximum
			0.016 mg/L calendar year average
	Benzoic acid	N/A	0.12 mg/L calendar year maximum
			0.071 mg/L calendar year average

Subsector	Parameter	Benchmark Values	Effluent Limits
	P-Cresol	N/A	0.025 mg/L calendar year maximum
			0.014 mg/L calendar year average
	Phenol	N/A	0.026 mg/L calendar year maximum
			0.015 mg/L calendar year average
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>	0.20 mg/L calendar year maximum
			0.11 mg/L calendar year average
	pH <sup>4</sup>	6.0-9.0 SU	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum

Table M-1

Subsector	Parameter	Benchmark Values
M1 Automobile Salvage Yards	Aluminum, Total (as Al)	1.5 mg/L
	Benzene	9.0 mg/L
	Ethylbenzene	3.7 mg/L
	Lead, Total (as Pb)	0.164 mg/L <sup>1</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Toluene	2.7 mg/L
	Xylene	2.8 mg/L

Table N-1

Subsector	Parameter	Benchmark Values
N1 Scrap Recycling Facilities	Aluminum, Total (as Al)	1.5 mg/L
	COD (Chemical Oxygen Demand)	120 mg/L
	Copper, Total (as Cu)	0.028 mg/L <sup>1</sup>
	Lead, Total (as Pb)	0.164 mg/L <sup>1</sup>
	pH <sup>4</sup>	6.0-9.0 SU
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>

Table O-1

Subsector	Parameter	Benchmark Values	Effluent Limits
O1 Coal Fired and Oil Fired Steam Electric Generating Facilities	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
O2 Nuclear, Natural Gas Fired, And Any Other Fuel Source Used For Steam Electric Generation	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
O3 Runoff From Coal Storage Piles At Steam Electric Generating Facilities	pH	N/A	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
	Solids, Total Suspended (TSS)	N/A	50 mg/L calendar year maximum <sup>7</sup>

Table P-1

Subsectors	Parameter	Benchmark Values
P1 Rail Transportation Facilities	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
P2 Petroleum Bulk Oil Stations and Terminals	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
P3 Motor Vehicle Facilities	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
P4 <sup>8</sup> Warehousing and Storage: General Warehousing, Farm Product Warehousing, Refrigerated Warehousing	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table Q-1

Subsector	Parameter	Benchmark Values
Q1 Water Transportation Facilities	Aluminum, Total (as Al)	1.5 mg/L
	Lead, Total (as Pb)	0.164 mg/L <sup>1</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>

Table R-1

Subsector	Parameter	Benchmark Values
R1 Ship and Boat Building and Repairing Yards	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table S-1

Subsector	Parameter	Benchmark Values	Effluent Limits
S1 Airports that use glycol-based deicing/anti-icing chemicals and/or urea.	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	N/A
	Chemical Oxygen Demand (COD)	120 mg/L	N/A
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L	N/A
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
S2 Airports that do not use any glycol-based deicing/anti-icing chemicals and/or any urea.	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>	N/A
S3 Existing and new primary airports <sup>9</sup> with 1,000 or more annual non-propeller aircraft departures that discharge wastewater associated with airfield pavement deicing that contains urea commingled with <b>stormwater</b> .	Nitrogen, Ammonia, Total (as N)	N/A	14.7 mg/L, calendar year maximum

Table T-1

Subsector	Parameter	Benchmark Values
T1 Treatment Works	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table U-1

Subsector	Parameter	Benchmark Values
U1 Grain Mill Products	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
U2 Fats and Oils Products	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L
	COD (Chemical Oxygen Demand)	120 mg/L
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
U3 Food and Tobacco Products, Food Preparation Facilities	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L
	COD (Chemical Oxygen Demand)	120 mg/L
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L
	Phosphorus, Total (as P)	1.0 mg/L
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table V-1

Subsector	Parameter	Benchmark Value
V1 Textile, Fabric, & Apparel Manufacturing, Leather & Leather Products	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table W-1

Subsector	Parameter	Benchmark Value
W1 Furniture and Fixtures	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table X-1

Subsector	Parameter	Benchmark Values
X1 Printing and Publishing	Silver, Total (as Ag)	0.0041 mg/L <sup>1</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table Y-1

Subsector	Parameter	Benchmark Values
Y1 Fabricated Rubber Products	Lead, Total (as Pb)	0.164 mg/L <sup>1</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>
Y2 Plastic Products	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table Z-1

Subsector	Parameter	Benchmark Values
Z1 Leather Tanning and Finishing	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L
	Chromium, Total (as Cr)	3.5 mg/L <sup>1</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table AA-1

Subsector	Parameter	Benchmark Values
AA1 Fabricated Metal Products	Aluminum, Total (as Al)	1.5 mg/L
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>
AA2 Fabricated Metal Coating and Engraving	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
	Zinc, Total (as Zn)	0.234 mg/L <sup>1</sup>

Table AB-1

Subsector	Parameter	Benchmark Value
AB1 Transportation Equipment and Industrial or Commercial Machinery	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

Table AC-1

Subsector	Parameter	Benchmark Values
AC1 Electronic, Electrical, Photographic, and Optical Goods	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>
AC2 Electronic & Electrical Equipment & Components, except Computers	Copper, Total (as Cu)	0.028 mg/L <sup>1</sup>
	Lead, Total (as Pb)	0.164 mg/L <sup>1</sup>
	Solids, Total Suspended (TSS)	100 mg/L <sup>2</sup>

**Footnotes – Appendix B:**

1. The benchmark values of some metals are influenced by water hardness. For these parameters, the Permittee may determine the hardness of the stormwater discharges to identify the applicable 'hardness range' for determining their benchmark value. See Appendix C for hardness dependent benchmark values in accordance with Minn. R. 7050.0222 and Minn. R. 7052.0100.
2. If the Permittee is required to comply with the additional required BMPs in the Additional Requirements for Discharges to Special (Prohibited, Restricted, Other) and Impaired Waters section of this permit, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.
3. The Permittee is authorized under this permit to conduct a visual observation sufficient to determine the presence of debris that will not pass through a 2.54 cm (1 inch) round opening and is not required to use a laboratory certified by the MDH or registered by the MPCA for this analysis.
4. For purposes of benchmark pH monitoring, the Permittee is required to report instantaneous results only, and not a calculation of pH averages. pH measurements are logarithmic, and the MPCA will be performing a logarithmic average for this parameter using the instantaneous results submitted.
5. Values given are for total hardness of 100 mg/L only.
6. As set forth at 40 CFR pt. 445 Subpart A, these numeric limitations apply to contaminated stormwater discharges from hazardous waste landfills subject to the provisions of RCRA Subtitle C at 40 CFR pt. 264 (subp. N) and 265 (subp. N) except for any of the following facilities:
  - a. landfills operated in conjunction with other industrial or commercial operations when the landfill receives only wastes generated by the industrial or commercial operation directly associated with the landfill;
  - b. landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes generated by the industrial or commercial operation directly associated with the landfill and also receives other wastes, provided that the other wastes received for disposal are generated by a facility that is subject to the same provisions in 40 CFR Subchapter N as the industrial or commercial operation or that the other wastes received are of similar nature to the wastes generated by the industrial or commercial operation;
  - c. landfills operated in conjunction with Centralized Waste Treatment (CWT) facilities subject to 40 CFR pt. 437, so long as the CWT facility commingles the landfill wastewater with other non-landfill wastewater for discharge. A landfill directly associated with a CWT facility is subject to this part if the CWT facility discharges landfill wastewater separately from other CWT wastewater or commingles the wastewater from its landfill only with wastewater from other landfills; or
  - d. landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes from public service activities, so long as the company owning the landfill does not receive a fee or other remuneration for the disposal service.
7. If the facility is designed, constructed, and operated to treat the volume of coal pile runoff that is associated with a 10-year, 24-hour rainfall event, any untreated overflow of coal pile runoff from the treatment unit is not subject to the 50 mg/L limitation for total suspended solids.
8. SIC codes 4221-4225 are not limited by vehicle/equipment maintenance
9. See sector specific definition S.4.d. for primary airport.