Minnesota Pollution Control Agency

GENERAL PERMIT

AUTHORIZATION TO DISCHARGE STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/ STATE DISPOSAL SYSTEM PERMIT PROGRAM

MODIFIED DATE: May 19, 2011 EXPIRATION DATE: April 5, 2015

In compliance with the provisions of the federal Clean Water Act (CWA), as amended, (33 U.S.C. 1251 et. seq.; hereafter the Act), 40 CFR 122, 123, and 124, as amended, et. seq.; Minn. Stat. chs. 115 and 116, as amended, and Minn. R. chs. 7001 and 7090.

This permit addresses **stormwater discharges associated with industrial activity**, as defined in this permit, for facilities that discharge **stormwater** to **waters of the state,** including regulated **Municipal Separate Storm Sewer Systems**. This permit also addresses **stormwater discharges associated with industrial activity** at facilities that provide on-site infiltration of industrial **stormwater** discharges associated with the **facility**.

Upon approval by the **Commissioner**, applicants who submit a complete application (including the application fee, if any) in accordance with the requirements of this permit are authorized to discharge **stormwater** associated with **industrial activity**, under the terms and conditions of this permit.

This permit shall become effective on the **effective date** identified above, and supersedes the previous general permit MN G611000, with an expiration date of October 31, 2002, issued for these facilities.

Signature:_____

Jeff Stollenwerk, Acting Manager
Land and Water Quality Permits Section
Industrial Division

If you have questions on this permit, including the specific permit requirements, permit reporting, or permit compliance status, please contact the appropriate Minnesota Pollution Control **Agency** offices.

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PART I. AUTHORIZATION UNDER THIS PERMIT

A. Eligibility Requirements

To be eligible for authorization to discharge industrial **stormwater** under this permit, the **Owner/Operator's facility** must have a **primary SIC code** or **narrative activity** as defined in 40 CFR § 122.26(b)(14)(i)-(xi), except (x), as summarized in Table 5 of Appendix D.

1. Authorized **Stormwater** Discharges

   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)-(xi), except (x), and summarized in Table 5 of Appendix D, which includes ten categories of **industrial activity** required to obtain a permit for industrial **stormwater** discharges and a list of related Standard Industrial Classification (SIC) codes organized by 29 sectors of **industrial activity** required to have a National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) permit.

2. Authorized **Non-Stormwater Discharges**

   The following **non-stormwater discharges** are authorized by this permit provided that appropriate **Best Management Practices (BMPs)** are utilized to minimize erosion and the discharges of sediment where necessary and provided that these discharges are not already authorized in a separate NPDES/SDS permit.

   a. Emergency fire-fighting activities.

   b. Fire hydrant and fire suppression system flushings.

   c. Potable water line flushings.

   d. Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids.

   e. Landscape watering provided all pesticides, herbicides, and fertilizers have been applied in accordance with manufacturer's instructions.

   f. Pavement wash waters where no detergents are used and no spills or leaks of potential pollutants such as fertilizers, salts, or toxic and hazardous materials have occurred unless all spilled material has been removed.

   g. Routine external building washdown that does not use detergents, solvents, or degreasers.

h. Uncontaminated groundwater or spring water.

i. Foundation or footing drains where flows are not contaminated.

j. Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the **facility**, but not intentional discharges from the cooling tower (e.g. “piped” cooling tower blowdown or drains).

k. Discharges from facilities operating under SIC codes 1442 and 1446, from dewatering operations composed entirely of **stormwater** or uncontaminated groundwater seepage.

B. Limitations on Authorization

1. The following discharges or activities are not authorized by this permit:

a. Discharges or release of **non-stormwater**, except those authorized **non-stormwater discharges** listed in Part I.A.2. **Non-stormwater discharges** or activities that are not authorized under this permit include, but are not limited to:

1. Non-contact cooling water.

2. Domestic and industrial wastewater and process wastewater.

3. Biosolids.

4. Spills of any substance that may cause water pollution as defined in Minn. Stat. § 115.01, subd. 13.

5. 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).

6. Commercial equipment/vehicle cleaning.

b. Piping and drainage systems for process wastewater and floor drains from process areas must be separated from the storm drainage system to prevent any inadvertent discharge of pollutants. A separate NPDES/SDS permit is required for any discharges of process wastewater.

c. **Stormwater** discharges mixed with **non-stormwater,** except those authorized **non-stormwater discharges** listed in Part I.A.2.

d. **Stormwater** discharges from any portion of the **facility** where **stormwater** discharge is authorized under an individual NPDES/SDS permit or other industry specific general NPDES/SDS permit.

e. **Stormwater** discharges associated with **construction activity** as defined in 40 CFR § 122.26(b)(14)(x) and (b)(15).

f. 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).

g. 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.

h. 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.

i. 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**.

j. 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**.

k. Prohibited discharges pursuant to Minn. R. 7050.0180, subp. 3, 4, and 5.

l. **Significant Discharges** as defined in Appendix E.

m. Any discharges or activities described under “limitation on authorization” in Part VII (sector-specific requirements) of the permit.

2. The following discharges or activities are authorized by this permit provided that the **Permittee** complies with all terms and conditions of this permit, and all terms and conditions of Appendix A.

   a. Restricted discharges as defined in Minn. R. 7050.0180, subps. 6, 6a, and 6b.

   b. Discharges to Trout Waters listed in Minn. R. 6264.0050, subps. 2 and 4.

   c. Discharges to **wetlands** as defined in Minn. R. 7050.0186, subp. 1a(B).

C. Obtaining Authorization

To obtain authorization for **stormwater discharges associated with industrial activities** under this permit:

1. The applicant(s) must meet the eligibility requirements under Part I.A.

2. The applicant(s) must develop a **Stormwater Pollution Prevention Plan (SWPPP)** in accordance with the requirements of Part IV prior to submitting an application to the **Agency**.

3. The applicant(s) must submit a complete permit application, on a form provided by the **Agency**, and certify that a **SWPPP** has been completed.

4. The applicant(s) must receive written or electronic notification from the **Agency** that coverage has been granted.

D. **Effective Date** of Permit Authorization

1. The **Commissioner** shall review the permit application for completeness and determine whether to authorize, or deny authorization, to discharge in accordance with Minn. R. ch. 7001. If an application is determined to be incomplete, the **Agency** will notify the applicant. The **Agency** will indicate why the application is incomplete and will request a resubmittal. The **Commissioner** may deny authorization under this permit and require the applicant to submit an application for a separate NPDES/SDS permit in accordance with Minn. R. ch. 7001.

2. Applicants are authorized to discharge industrial **stormwater** from their **facility** under the terms and conditions of this permit as of the issuance date stated on the written or electronic notification of permit authorization sent to the **Permittee** by the **Agency**.

3. The **Permittee** shall post the Notification of Permit Coverage Card in an area of the **facility** that provides highest visibility to employees and visitors.

E. Notification Requirements

If the **Permittee** has a **stormwater discharge associated with industrial activity** and directly discharges into any regulated **Municipal Separate Storm Sewer System (MS4)**, the **Permittee** shall notify the operator of the first MS4 that receives this discharge of the existence of this industrial **stormwater** general permit authorization.

F. Transfer of Ownership or Control

When the ownership or operational control of the **facility** changes, and a new **Owner/Operator** assumes responsibility for the **facility**, a request for permit transfer on the Permit Transfer/Name Change Form, signed by the prior **Owner/Operator** and certified by the new **Owner/Operator**, must be submitted to the **Agency** on or before the **effective date** of the change. The new **Owner/Operator** to whom the permit has been transferred shall comply with the terms and conditions of this permit in accordance with Part VIII.O.

G. Termination

1. The **Permittee** shall comply with this permit until the **Permittee** completes and submits a Notice of Termination form. Authorization to discharge industrial **stormwater** under this permit terminates after the **Permittee** receives either written or electronic notification by the **Agency** that permit coverage has been terminated.

2. The **Permittee** shall submit a Notice of Termination form, signed by the **Permittee**, within 30 days after one or more of the following conditions are met:

   a. **Industrial activity** has ceased and contact of **stormwater** with **significant materials** has been eliminated.

   b. The **Permittee** has obtained authorization under an individual NPDES/SDS permit or industry specific general NPDES/SDS permit for **stormwater discharges associated with industrial activity**.

H. Issuance of an Individual Permit

1. The **Owner/Operator** may request an individual permit to authorize **stormwater discharges associated with industrial activity**, in accordance with Minn. R. 7001.0210, subp. 6.

2. The **Agency** may require an individual permit for the applicant or **Permittee**, in accordance with Minn. R. 7001.0210, subp. 6.

I. Conditional Exclusion for **No Exposure**

1. A **facility** that meets the eligibility criteria for this permit in Part I.A. and that is eligible for the conditional exclusion for **No Exposure** may submit to the **Agency** a **No Exposure** certification (as part of the application packet) in accordance with Minn. R. 7090.3060. Following receipt by the **Agency** of a complete **No Exposure** certification request that meets the exclusion criteria, and beginning upon the issuance date on the written or electronic notification of **No Exposure**, the **facility** is not required to comply with this permit. If the **facility** is already authorized by the

general permit, submittal of a Notice of Termination to terminate permit authorization is not required when seeking the conditional exclusion for **No Exposure**; however, if the **facility** operations terminate entirely after obtaining the conditional exclusion for **No Exposure**, a Notice of Termination shall be submitted. The conditional exclusion for **No Exposure** is available on a **facility**-wide basis in accordance with Minn. R. 7090.3060, subp. 5(B). The conditional exclusion for **No Exposure** is nontransferable, in accordance with Minn. R. 7090.3060, subp. 5(D).

2. Any **facility** that has previously obtained a conditional exclusion for **No Exposure** shall re-certify for the exclusion no later than five years from the effective date of the most recent **No Exposure** certificate issued to the **facility** by the **Agency**.

3. If a change is planned that will result in failure to maintain a condition of **No Exposure** at a **facility**, the **Owner/Operator** of a **facility** shall apply for and receive permit authorization before commencing the change in accordance with Part II.A.2 of the permit.

4. Any **facility** authorized for the conditional exclusion for **No Exposure** by the **Agency** shall post the **No Exposure** Coverage Card in an area of the **facility** that provides highest visibility to employees and visitors.

PART II. APPLICATION REQUIREMENTS

A. Application Deadlines

An **Owner/Operator** of a **facility** that has a s**tormwater discharge associated with industrial activity** for any **primary SIC code** and/or **narrative activities** and **co-located industrial activities** regulated under 40 CFR § 122.26(b)(14))(i)-(xi), except (x), as summarized in Table 5 of Appendix D, must apply to obtain authorization under this permit or a separate NPDES/SDS permit. Prior to application for this permit, a **SWPPP** that meets the requirements of Part IV must be completed.

An **Owner/Operator** of a **facility** that has a s**tormwater discharge associated with industrial activity** for any **primary SIC code** and/or **narrative activities** and **co-located industrial activities** regulated under 40 CFR § 122.26(b)(14))(i)-(xi), except (x), as summarized in Table 5 of Appendix D, that is seeking a conditional exclusion for **No Exposure** in accordance with Part I.I must submit an application to obtain the **No Exposure** exclusion. Any **facility** that has obtained a conditional exclusion for **No Exposure** prior to the **effective date** of this permit must submit a new application for the **No Exposure** exclusion. A **facility** seeking the **No Exposure** exclusion is not required to develop a **SWPPP.**

1. Existing Facilities

All existing facilities with a **primary SIC code** and/or **narrative activity** seeking authorization to discharge industrial **stormwater** under this permit, or that is seeking a conditional exclusion for **No Exposure**, shall submit an application to the **Agency** for authorization in accordance with the schedule outlined in Table 1, below.

Table 1

Sector Group 1 Within 60 days of permit **effective date**	Sector Group 2 Within 120 days of permit **effective date**	Sector Group 3 Within 180 days of permit **effective date**
Sectors: A, C, D, E, F, G, I, J, L, M, N, Q, Y, and AA	Sectors: H, K, O, P, R, S, Z, and AC	Sectors: B, T, U, V, W, X, and AB

2. New Facilities/**Industrial Activities**

If a **person** proposes to construct a new **facility** or engage in a new activity for which a permit is required, the **person** shall submit a complete permit application at least 180 days before the planned date of the commencement of **facility** construction or of the planned date of the commencement of the activity, whichever occurs first. (Minn. R. 7090.3010)

3. Application for Reauthorization

   If a permit has been issued by the **Agency** and the **Permittee** holding the permit desires to continue the permitted activity beyond the expiration date of the permit, the **Permittee** shall submit a written application for permit reissuance at least 180 days before the expiration date of the existing permit. (Minn. R. 7001.0040, subp. 3)

B. Responsibilities

   The **Owner/Operator**, who signs the application is the **Permittee** and is responsible for compliance with all terms and conditions of this permit.

C. Record Retention

1. The **Permittee** shall retain copies of the permit application, all data and information used to complete the application, and any information developed as a requirement of this permit or as requested by the **Commissioner** for a period of at least three (3) years. This period is automatically extended throughout the course of an unresolved enforcement action regarding the **facility** or as requested by the **Commissioner**.

2. The **Permittee** shall keep all records associated with monitoring for at least three (3) years, including any calculations, original recordings from automatic monitoring devices, and laboratory sheets. The **Permittee** shall extend these record retention periods upon request by the **Agency**. In accordance with Minn. R. 7001.0150, subp. 2(C), the records shall include the following information:

   a. The exact place, date, and time of sample or measurement.

   b. The date of analysis.

   c. The name of the person who performed the sample collection, measurement, analysis, or calculation.

   d. The analytical techniques, procedures, and methods used.

   e. The results of the analysis.

PART III. STORMWATER CONTROL MEASURES

The **Permittee** shall design and implement **BMPs** for each **stormwater** control measure outlined below. All **stormwater** control measures, including **BMPs**, shall be designed and implemented to eliminate or reduce contact or exposure of pollutants to **stormwater** or remove pollutants from **stormwater** prior to discharge from the **facility**. The **SWPPP** shall include the type and objective of the **BMP** used, and a description of how the **BMP** is evaluated to determine proper function. The **Permittee** shall implement all non-structural **BMPs** immediately and all structural **BMPs** within 12 months, after receiving authorization to discharge industrial **stormwater** under this permit.

A. Good Housekeeping. Exposed areas that may contribute pollutants to **stormwater** shall be kept sufficiently clean to reduce or eliminate contaminated **stormwater** runoff. Typical problem areas include, but are not limited to, trash containers, storage areas, loading docks and vehicle fueling and maintenance areas.

B. Eliminating and Reducing Exposure. Materials management practices shall be evaluated to determine if and how inventories of exposed materials can be reduced or eliminated. The **Permittee** shall, to the extent prudent and feasible, locate **industrial activities** and **significant materials** in areas not exposed to rain, snow, snowmelt or runoff.

C. Salt Storage (if present at the **facility**). The **Permittee** shall enclose or cover storage piles of salt or piles containing salt used for deicing or other commercial or industrial purposes to prevent exposure to precipitation. Exposure resulting from the adding or removal of material shall be controlled through appropriate measures (e.g. good housekeeping, diversions, and containment). Salt storage piles do not need to be enclosed or covered where **stormwater** from the pile is not discharged to **surface waters** or groundwater, or discharges from the piles are authorized and controlled under a separate NPDES/SDS permit.

D. Erosion Prevention and Sediment Control. The **Permittee** shall identify areas at the **facility** that, due to topography, land disturbance (e.g. construction, grading, landscaping), or other factors, have potential for soil erosion. In those areas, the **Permittee** shall implement structural, vegetative, and/or stabilization **BMPs** to prevent or control on-site erosion and reduce sediment loads in **stormwater** discharges.

E. Management of Runoff. The **SWPPP** shall describe all permanent **stormwater BMPs** implemented at the **facility** to manage runoff, including, but not limited to, the permanent structural **BMPs** used to divert **stormwater** runoff away from fueling, manufacturing, treatment, storage, and disposal areas, and **BMPs** that treat, infiltrate, reuse, contain, or otherwise reduce pollutants in **stormwater** discharges. In addition, the **Permittee** shall comply with the following requirements where applicable.

1. **Industrial stormwater ponds** and **infiltration devices,** located in areas where high levels of contaminants (as defined by the **Agency)** exist in the soil or in the shallow aquifer, must not contribute to contaminant(s) spreading to a greater extent or rate. At

any contamination site, as determined by the **Agency**, a site analysis shall be conducted by a qualified professional (e.g. professional hydrogeologist, engineer, etc.) and a report filed with the **SWPPP**. If **industrial stormwater ponds** and **infiltration devices** are found to be a contributor to contaminant increase or movement, the **Permittee** shall submit a plan to the **Agency** that describes how the **Permittee** will be reducing contaminants, redesigning, relocating, or eliminating the **industrial stormwater ponds** and **infiltration devices,** as needed, to eliminate the contribution to contaminant problems. The plan shall be submitted to the **Agency** within one year of the **Permittee's** authorization to discharge under this permit or if discovered after application, within one year of discovery. The plan shall be implemented as soon as approval is granted by the **Agency**. The plan may utilize the results of, but does not reduce or eliminate more stringent requirements that may be imposed by other **Agency** regulatory programs. If agreement with the **Agency** on an acceptable plan cannot be reached, the **Permittee** must seek an individual NPDES/SDS permit.

2. **Industrial stormwater ponds** and **infiltration devices** shall not be used in any high risk karst area unless a professional geotechnical evaluation is conducted by a qualified professional (e.g. professional hydrogeologist, engineer, etc.) to ensure that the **industrial stormwater pond** or **infiltration device** does not present a significant risk to groundwater. Generally accepted practices are described in the applicable portions of the Minnesota **Stormwater** Manual (See the Minnesota Storm Water Manual, Chapter 14, Section 2.2 and others, for specific information on this process). If the **industrial stormwater ponds** and **infiltration devices** present a risk, appropriate measures, such as sealing or removal of the **industrial stormwater ponds** or **infiltration devices,** shall be taken to eliminate or minimize the risk. Evaluations shall be documented with the **SWPPP**.

3. **Industrial stormwater ponds** and **infiltration devices** in vulnerable wellhead protection areas must be coordinated with local drinking water authorities and shall be designed to not adversely affect drinking water supplies. The **Permittee** shall contact the appropriate local drinking water authorities and document coordination efforts with the **SWPPP**.

4. **Permittees** with any **infiltration device** defined as a **USEPA "**Class V injection well" shall contact the **USEPA** Region V to determine the need to register as a "Class V injection well". Refer to the **USEPA** Underground Injection Well Program for the definitions and complete registration process. Contacts and **USEPA** response shall be documented with the **SWPPP**.

F. **Facility** Inspection Requirements

1. Unless Part III.F.2 applies, the **Permittee** shall develop and implement an inspection schedule that includes a minimum of one (1) **facility** inspection per calendar month that the **facility** is active and staffed. A minimum of one (1) inspection per calendar year shall be conducted during a runoff event.

2. If a **facility** is unstaffed and inactive for more than 10 months of a calendar year, the **Permittee** may limit inspections to once every six (6) months, and is not required to conduct an inspection during a runoff event resulting in **stormwater** discharge from the **facility**. However, the **Permittee** shall include documentation in the **SWPPP** explaining **BMP** implementation that assures adequate protection of all waters receiving industrial **stormwater** discharges from the **facility**.

3. All **facility** inspections shall include the following;

   a. An evaluation of the **facility** to determine that the **SWPPP** accurately reflects site conditions as described in Part IV.B.1-4. At a minimum, the **Permittee** shall inspect storage tank areas, waste disposal areas, maintenance areas, loading/unloading areas, and raw material, intermediate product, by-product and final product storage areas.

   b. An evaluation of all structural and non-structural **BMPs** to determine effectiveness and proper function.

   c. An evaluation of the **facility** to determine whether new exposed **significant materials** or activities have been added to the site since completion of the **SWPPP**.

   d. During an inspection conducted during a runoff event, an evaluation of the **stormwater** runoff to determine if it is discolored or if other contaminants are visible in the runoff (e.g. oil & grease).

4. All inspections shall be documented and the following information shall be stored with the **SWPPP**:

   a. Inspection date (i.e. mm/dd/yyyy), time, and weather conditions.

   b. Inspector name.

   c. Inspection findings.

   d. A description of any necessary corrective actions and a schedule for corrective action completion.

G. Maintenance Requirements

1. **BMP** Maintenance

   The **Permittee** shall maintain all **stormwater BMPs** identified in the **SWPPP** and implemented at the **facility**, to ensure **BMP** effectiveness.

a. The **Permittee** shall develop a schedule for preventive maintenance of all **stormwater BMPs**. The schedule shall be stored with the **SWPPP**.

b. If the **Permittee** identifies **BMPs** that are not functioning properly, the **Permittee** shall replace, maintain, or repair the **BMPs** within seven (7) calendar days of discovery. If **BMP** replacement, maintenance, or repair cannot be completed within seven (7) calendar days, the **Permittee** shall implement effective backup **BMPs** (temporary or permanent) until effectiveness of the original **BMPs** can be restored. The **Permittee** shall document the justification for an extended replacement, maintenance, or repair schedule of the failed **BMPs**, and store it with the **SWPPP**.

c. The **Permittee** shall record dates of all maintenance and repairs. The **Permittee** shall store these records with the **SWPPP**.

2. Equipment Preventive Maintenance

The **Permittee** shall develop and implement a preventive maintenance program to be stored with the **SWPPP**. The program shall require regular inspection, maintenance, and repair of industrial equipment and systems to identify conditions that could cause breakdowns or failures that may result in leaks, spills, and other releases (e.g. hydraulic leaks, torn bag-house filters, etc), and the discharge of pollutants to **stormwater**. The preventive maintenance program may incorporate by reference a separate Operation and Maintenance Manual (or equivalent), as long as it addresses the items required above for the preventive maintenance program.

H. Elimination of Unauthorized **Non-Stormwater Discharges**

The **Permittee** shall document that all **non-stormwater discharges** have been evaluated and all discharges not authorized by this permit or a separate NPDES/SDS permit have been eliminated. Documentation of the evaluation shall be included with the **SWPPP**, and shall consist of:

1. The date of any evaluation.

2. A description of the evaluation criteria used.

3. A list of **monitoring locations** that were directly observed during the evaluation.

4. The different types of **non-stormwater discharges** and source locations.

5. The action(s) taken, such as a list of control measures used to eliminate any unauthorized discharge(s) that were identified.

I. Spill Prevention and Response Requirements

1. The **Permittee** shall develop and implement a spill prevention and response procedure. If the **facility** already has a separate plan (e.g. Prevention and Response Plan as required by Minn. Stat. 115E, or Spill Prevention Control and Countermeasure Plan as required by Federal Law), that plan can be incorporated by reference into the **SWPPP**. In either case, a minimum of the following components shall be included with the **SWPPP**, or in a separate document:

    a. Areas where the storage, transfer, or use of solid or liquid **significant materials** occurs, where spills and leaks of the material may potentially contribute pollutants to **stormwater** discharges.

    b. **Monitoring locations** and **surface waters** that may be affected by spills, leaks, or discharges from emergency firefighting activities from each area identified.

    c. The **Permittee** shall report and document spills or leaks (as defined in Minn. Stat. § 115.061) that occur in exposed areas, or that drain to a **monitoring location**.

    d. Material handling procedures, storage requirements, and cleanup equipment/materials and procedures necessary to recover as rapidly and thoroughly as possible spills or leaks pursuant to Minn. Stat. § 115.061. All methods and procedures must be made available to appropriate **facility** personnel.

    e. Contact information for individuals and emergency and regulatory agencies that must be notified in the event of a spill. When a spill or discharge of a potentially polluting material occurs, the **Permittee** shall immediately notify the Minnesota Department of Public Safety Duty Officer at 1-800-422-0798 (toll free) or 651-649-5451 (metro area) per Minn. Stat. § 115.061.

2. The **Permittee** shall ensure the use of infiltration is not part of a spill containment plan. This includes spill plans required under Federal Spill Prevention Containment and Control (SPCC) requirements or Minnesota Statutes 115E “The Spill Bill”.

3. The **Permittee** shall ensure the use of a pond is not part of a spill containment plan, including spill plans required under Federal Spill Prevention Containment and Control (SPCC requirements or Minnesota Statutes 115E), unless appropriate controls are provided to contain the spill. If a pond is used as part of a spill containment plan, the pond must have a chemically compatible liner for spilled chemicals expected to enter the pond and must have outlet controls to contain a spill. A plan must also be in place to clean up a spill so that the pond will not continue to be a source of spilled pollutants. Evaluations shall be documented with the **SWPPP**.

J. Mercury Minimization Plan

The **Permittee** shall evaluate the **facility** to determine if any sources containing mercury are exposed to **stormwater**.

Any time mercury sources or devices are found to be exposed to **stormwater**, a Mercury Minimization Plan shall be developed that describes how mercury sources will be managed at the site to eliminate exposure to precipitation and **stormwater** runoff. To the extent feasible, mercury sources and devices shall be removed from **stormwater** exposure and managed in accordance with Minn. R. 7045, Hazardous Waste, and any additional applicable state and federal rules.

K. Employee Training Program

The **Permittee** shall develop and implement a training program for employees. Training shall cover stormwater control measures, components and goals of the **SWPPP**, monitoring procedures, and other applicable requirements of the permit. The program shall include a training schedule that includes training at least annually. A record of the trainer's name and trainer's organization (internal or external), and the names of trained individual(s) and dates that the individual(s) received training must be maintained, either in the **SWPPP** or in a separate record stored with the **SWPPP**. Training shall be commensurate with the job function of the employee. At a minimum, the following individuals shall be trained:

1. Employee(s) overseeing implementation of, revising, and amending the **SWPPP**.

2. Employee(s) performing installation, inspection, maintenance, and repair of **BMPs**.

3. Employee(s) who work in areas of **industrial activity** subject to this permit.

4. Employee(s) who conduct **stormwater** discharge monitoring required by Part V and VI of this permit.

PART IV. STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

A. General **SWPPP** Requirements

1. A **SWPPP** shall be developed, implemented, and maintained for each **facility** authorized by this permit.

2. A **SWPPP** shall be completed prior to submitting the permit application for authorization to discharge industrial **stormwater** from a **facility**.

3. **Permittees** authorized under the previous version of this permit shall modify the **SWPPP** to comply with the requirements of this permit prior to submitting the application.

4. The **SWPPP** shall identify the individual(s) responsible for managing, implementing, maintaining, modifying, and ensuring compliance with the **facility**'s **SWPPP**.

5. The **Permittee** shall incorporate into the **SWPPP**, a section specific to any mobile **industrial activities** conducted away from the permitted **facility**. The section shall address each **stormwater** control measure required by Part III of the permit, and requirements in Part VII, 1-6 of all applicable sectors. The **Permittee** shall ensure a copy of this section of the **SWPPP** is kept at the location where the mobile **industrial activity** occurs.

6. Any **SWPPP** requirements outlined in Part VII (sector-specific), shall be in addition to **SWPPP** requirements in Part IV.

7. The **SWPPP** shall list all personnel who are appropriately trained to conduct **facility** inspections.

8. Records of all inspections conducted in accordance with Part III.F shall be maintained with the **SWPPP**.

9. All information pertaining to maintenance required by Part III.G shall be kept with the **SWPPP**.

10. All documentation pertaining to the elimination of unauthorized **non-stormwater discharges** as required by Part III.H shall be included with the **SWPPP**.

11. The **SWPPP** shall contain, or the **Permittee** shall keep as a separate document, any documentation required by the Spill Prevention and Response Requirements of Part III.I.

12. The **SWPPP** shall contain a Mercury Minimization Plan if the **Permittee** has discovered mercury sources as a result of compliance with Part III.J.

13. All information regarding the Employee Training Program required by Part III.K shall be included with the **SWPPP**, or kept as a separate document.

B. Specific **SWPPP** Requirements

1. The **SWPPP** shall be used by the **Permittee** to document all **BMPs** used to comply with each **stormwater** control measure required in Part III. **BMPs** shall be designed and implemented to address the potential pollutants associated with the activities and materials identified by the **Permittee** in Part IV.B.4. The documentation shall include the following:

   a. A list of all non-structural **BMPs** designed and implemented at the **facility**.

   b. A list of all structural **BMPs** designed and implemented at the **facility**.

2. **Facility** Description. The **SWPPP** shall include:

   a. A narrative description of the **industrial activities** conducted at the **facility**.

   b. The total size of the **facility** property in acres.

   c. A calculation of the **facility** acreage that has **industrial activity** and/or **significant materials** in contact with **stormwater**, from new or existing facilities since January 1, 1988. The calculation excludes acreage that does not have the potential to discharge industrial **stormwater** (e.g. natural and landscaped areas, employee parking lots, and office buildings, etc).

3. **Facility** Map(s)

   The **facility** map(s) shall be of 1:24,000 scale or larger (e.g. United States Geological Survey map or equivalent), and must depict the following:

   a. Location of the **facility** in relation to **surface waters** (including the name of the **surface water;** if the name is not known, indicate that on the map), receiving industrial **stormwater** discharges from the **facility**.

   b. Location of all **impervious surfaces** within the **facility** property boundaries.

   c. Directions of **stormwater** flow indicated by arrows.

   d. Location of all activities and materials identified in Part IV.B.4.

   e. Location of all structural **BMPs**.

f. Location of all **impaired waters** within **one mile** of any **monitoring location**. The **Permittee** shall include the name of the **impaired water** and the impairment (e.g. impaired for biota fish, turbidity, nutrients, etc).

g. Location and name of any waters described in Appendix A if the water(s) receives industrial **stormwater** discharges from a **monitoring location** that flows to, and is within **one mile** of, the Appendix A water.

h. Location of all storm sewer inlets.

i. Location of all loading dock drains, including those that connect to a storm sewer.

j. Location of each **benchmark monitoring location.** Each **benchmark monitoring location** shall be assigned a unique identifying number (e.g. BML01, BML02, BML03, etc.) that will be used when submitting monitoring data to the **Agency**. Each **benchmark monitoring location** from which a discharge flows to, and is within **one mile** of, an **impaired water** shall be clearly labeled.

k. Location of each **effluent monitoring location** that will be monitored (if applicable). Each **effluent monitoring location** shall be assigned a unique identifying number (e.g. EML01, EML02, EML03, etc.) that will be used when submitting monitoring data to the **Agency**.

l. Location and description of any **non-stormwater discharges** as authorized in Part I.A.2.

4. **Facility** Assessment of Activities and Materials

a. Assessment of **Activities**

The **facility SWPPP** shall include an assessment and inventory/list of activities that can potentially be sources of pollutants to **stormwater discharges associated with industrial activity**. These activities include, but are not limited to:

1. Fueling.

2. Vehicle and equipment maintenance.

3. Loading and unloading of dry bulk materials or liquids.

4. Liquid storage tanks.

5. Outdoor manufacturing and processing.

6. Outdoor storage of **significant materials**.

7. Access roads, rail cars, and tracks.

8. Waste treatment, storage, or disposal including waste ponds, dumpsters, and solid waste storage or management.

9. Dust or particulate-generating processes including dust collection devices and vents.

10. Rooftops contaminated by pollution control devices.

b. Assessment of Materials and Associated Pollutants

The **SWPPP** shall include documentation of an assessment and inventory/list of materials handled or stored at the **facility** that can potentially be a source of pollutants to **stormwater discharges associated with industrial activity**. The assessment shall also include pollutant constituents (e.g. crankcase oil, zinc, sulfuric acid, cleaning solvents, etc) associated with each type of material identified below.

1. Raw materials.

2. Intermediate products.

3. By-products.

4. Final products, and

5. Waste products.

5. **SWPPP** Modification Requirements

The **Permittee** shall review the **SWPPP** at least annually and modify the **SWPPP** as necessary, if:

a. There is construction or a change in design, operation, or maintenance at the **facility** that affects **stormwater** management or compliance with this permit.

b. The **Permittee** has identified a **monitoring location** from which the discharge flows to, and is within **one mile** of, an **impaired water**.

c. A routine inspection, compliance evaluation, or visual inspection identifies deficiencies in the **SWPPP** and/or **BMPs**.

d. Additional **stormwater** control measures and **BMPs** are necessary to meet applicable **water quality standards** or to address exceedances of benchmark values.

e. There is an unauthorized discharge from the **facility**. If the **SWPPP** modification is based on a release or unauthorized discharge, include in the modified **SWPPP** a description and date of the release, the circumstances leading to the release, actions taken in response to the release, and measures to prevent the recurrence of such releases. Unauthorized releases and discharges are subject to the reporting requirements in Part IV.B.7.

6. **SWPPP** Availability Requirements

The **SWPPP** must be kept at the industrial **facility** and made available to the **Agency** within 72 hours of a request for review. (Minn. R. 7090.3040, subp. 2).

7. **SWPPP** Reporting Requirements and Submittals

a. Annual Report

The **Permittee** shall submit an Annual Report on a form provided by the **Agency** by March 31st of each year the **Permittee** is authorized to discharge industrial **stormwater** under this permit. Each Annual Report shall cover those portions of the previous calendar year the **Permittee** was authorized to discharge industrial **stormwater**. The Annual Report shall include, at a minimum, the following information:

1. A summary of inspection dates, findings, and any **BMP** maintenance conducted by the **Permittee** during the course of the reporting year.

2. If applicable, the results of any inspection requirements of Part VII (sector-specific requirements) involving oil and grease.

3. A confirmation that the **SWPPP** accurately reflects **facility** conditions.

4. A confirmation that newly-exposed **significant materials** (if any) have been identified and that the **SWPPP** has been modified to address them.

5. A confirmation that the **Permittee** has conducted a review of **impaired waters** and that the **SWPPP** has been modified to address applicable permit requirements of Part V, if necessary.

6. A confirmation that the **Permittee** has conducted a review of **USEPA**-approved **TMDL**s that may apply to the **facility** and that may require the **Permittee** to comply with Part I.B.j of the permit.

7. A description of any **SWPPP** modification made in accordance with Part IV.B.5, including any information supporting the use of a monitoring waiver outlined in Part V.B.6.

8. A list of all spills and leaks (as defined in Minn. Stat. § 115.061) that occurred at the **facility** during the reporting year.

9. If applicable, a summary of all mobile **industrial activities** conducted by the **facility**. At a minimum, the summary shall include a description (including **SIC code** and/or **narrative activity**), locations where the mobile **industrial activity** occurred (including latitude and longitude coordinates), and length of time the mobile **industrial activity** operated at each location.

b. Submitting Reports

The **Permittee** may submit the Annual Report form and other submittals required in this permit by using an electronic submittal process or by mailing to the following address:

MPCA
Attn: WQ Submittals Center
520 Lafayette Road North
St. Paul, MN 55155-4194

PART V. BENCHMARK MONITORING REQUIREMENTS

A. The **Permittee** shall monitor each **benchmark monitoring location** for all benchmark parameters specified for the **facility's primary SIC code** and/or **narrative activity** and any **co-located industrial activity** as outlined in Part VII, unless exempted by Part V.B.6.

An exceedance of an applicable benchmark value does not constitute a violation under this permit. However, the **Permittee** is required to perform any necessary corrective action(s) to address **stormwater** control measures, including the maintenance or implementation of **BMPs**, when an exceedance of an applicable benchmark value occurs. Failure to respond to benchmark value exceedances is a violation of the permit.

B. Monitoring for benchmark parameters at each **benchmark monitoring location** shall be conducted according to the procedures of Part V.B.1, and shall begin 12 months after the date the **Permittee** is authorized to discharge industrial **stormwater** under this permit.

1. Monitoring Procedures And Sample Collection Methods

a. If the **Permittee** has identified multiple, but separate, **stormwater discharges associated with industrial activity**, and each area of discharge is substantially similar in terms of exposure, BMPs, and pollutants discharged, the **Permittee** may choose one **benchmark monitoring location** that is most representative and best allows for obtaining a sample.

b. The **Permittee** shall ensure that a laboratory certified by the Minnesota Department of Health conducts analyses required by this permit. If the Permittee is required 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, the Permittee is not required to use a laboratory certified by the Minnesota Department of Health for this analysis. Analyses of dissolved oxygen, pH, temperature and total residual oxidants (chlorine, bromine) are not required to be completed by a certified laboratory, but shall comply with manufacturer's specifications for equipment calibration and use. (Minn. Stat. Sec. 144.97 through 144.98 and Minn. R. 4740.2010 and 4740.2050 through 4740.2120)

c. Four (4) samples shall be collected at each **benchmark monitoring location** and analyzed for each benchmark parameter specified for the **Permittee's** industrial sector(s) in order to determine an average concentration for each benchmark parameter for **facility** discharges. The four (4) samples shall be collected on four (4) separate events (one per 3-month interval) during the year. At the **Permittee's** discretion, more than four (4) samples may be taken during separate runoff events and used to determine the average benchmark parameter concentration for **facility** discharges. The benchmark parameters are listed in tables in the sector-specific sections of Part VII.

d. For averaging purposes, the **Permittee** shall use a value of zero for any individual sample parameter that is determined to be less than the method detection limit. For sample values that fall 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.

e. Sampling intervals correspond to 3-month periods beginning 12 months after the date the **facility** is authorized by the **Agency** to discharge industrial **stormwater** under this permit. Samples shall be collected in each of the four (4) intervals of a sampling year and shall be collected during the first 30 minutes of a measurable runoff event at a **benchmark monitoring location** within a sampling interval to the extent feasible. For every interval the **Permittee** is required to conduct sampling, a **Stormwater** Monitoring Report shall be submitted to the **Agency** in accordance with Part V.B.5 (even if measurable runoff during a sampling interval is not sufficient to obtain a sample).

    1. In the absence of a measurable runoff event during a sampling interval due to weather conditions and/or site soil characteristics, the **Permittee** shall collect a substitute sample during the next sampling interval. This may result in the **Permittee** collecting more than one sample during an interval. In this case, samples may be taken at any time during an interval, except that sampling events shall be at least 72 hours apart.

    2. If the **Permittee** is unable to obtain a minimum of four (4) samples throughout a sampling year, less than four (4) samples may be used to determine the average benchmark parameter concentration(s) for the discharges during the year. However, for each interval that samples cannot be obtained, the **Permittee** shall complete the appropriate sections of a **Stormwater** Monitoring Report, and submit it to the **Agency.**

    3. If the **Permittee** is unable to obtain at least one sample during second year monitoring as required by Part V.B.2, the **Permittee** shall conduct fourth year monitoring as required by Part V.B.3.

f. If more than four (4) samples are taken at a **benchmark monitoring location** during a sampling year, all samples taken shall be reported and used to determine the average benchmark parameter concentration, and the data shall be included in the **Stormwater** Monitoring Report submitted to the **Agency**.

g. Samples shall be collected from a measurable runoff event (precipitation or snow melt) at a **benchmark monitoring location**, provided that the interval since the preceding measurable runoff event is at least 72 hours.

h. If it is not possible to collect the sample within the first 30 minutes of a measurable runoff event at the **benchmark monitoring location**, the sample shall

be collected as soon as practicable after the first 30 minutes and documentation must be included with the **Stormwater** Monitoring Report that explains why it was not possible to collect samples within the first 30 minutes of a measurable runoff event.

i. Samples shall either be taken manually by grab method, or by automated sampling. If automated sampling is used, the device shall either collect one sample during the first 30 minutes of discharge or a series of samples collected throughout the discharge period, combined as a composite sample.

2. Second Year Monitoring

Unless the **Permittee** meets the waiver conditions of Part V.B.6, the **Permittee** shall begin monitoring benchmark parameters specified for the **Permittee's** industrial sector(s) using the procedures outlined in Part V.B.1. The second year monitoring interval shall begin no later than twelve (12) months after the date the **Permittee** is authorized to discharge industrial **stormwater** under this permit. The **Permittee** shall collect samples from each **stormwater benchmark monitoring location(s)** identified by the **Permittee** in the **SWPPP**.

Once the second year samples for each **benchmark monitoring location(s)** have been collected and analyzed, the **Permittee** shall compare the average of the second year monitoring results with the applicable benchmark value(s) and refer to the following outcomes to determine what further action may be required.

a. Benchmark Values Are Not Exceeded

Further monitoring for those pollutants is not required, unless during subsequent years of permit authorization, a new **impaired water** has been listed, and the **facility** has a **monitoring location** from which the discharge flows to, and is within **one mile** of, the **impaired water**. In this case, the **Permittee** shall:

1. Complete additional monitoring for the benchmark parameter(s) for which the recently listed water is impaired. This only applies if the pollutant(s) of impairment or its appropriate surrogate(s) (Table 2) is among the list of benchmark parameters specified for the **Permittee's** industrial sector(s).

Table 2

Pollutant of Impairment	**Surrogate**
Biota (Fish)	Solids, Total Suspended (TSS)
Biota (Macroinvertabrates)	Solids, Total Suspended (TSS)
Biota (Plant)	Solids, Total Suspended (TSS)
Dissolved Oxygen (DO)	* BOD, Carbonaceous 05 Day (20 Deg C) ($CBOD_5$), and/or COD (Chemical Oxygen Demand)
Nutrient Eutrophication Biological Indicators	Phosphorus, Total (as P)

Turbidity	Solids, Total Suspended (TSS)

In the case of water impaired for Dissolved Oxygen, the **Permittee must monitor for either $CBOD_5$ or COD, or both, depending if these pollutants are among the sector-specific pollutants of the **Permittee's** sector in Part VII.*

2. No later than 180 days following the **USEPA**-approved listing of the **impaired water**, begin the additional monitoring for the pollutant(s) of impairment or its appropriate surrogate(s), using the procedures outlined in Part V.B.1.

3. At the completion of monitoring, follow Part V.B.2.a or Part V.B.2.b.2, which-ever applies.

b. Benchmark Values Are Exceeded

1. If the **facility** does not have a **monitoring location** from which a discharge flows to, and is within **one mile** of, an **impaired water** or a water listed in Appendix A, Parts B, C, or D, the **Permittee** shall:

   a. Modify the **SWPPP** and document all corrective actions, including improvements to **BMPs**, necessary to meet the applicable benchmark values during fourth year monitoring. The **Permittee** shall include any changes in **BMPs** and the timeframe for implementation of all corrective actions. Modifications and upgrades of the **SWPPP** and **BMPs** shall be completed and implemented no later than 36 months after the **Permittee's** authorization to discharge **stormwater** under this permit.

   b. Comply with the monitoring requirements of Part V.B.3 (Fourth Year Monitoring).

2. If the **facility** has a **monitoring location** from which a discharge flows to, and is within **one mile** of, an **impaired water** listed as impaired for a pollutant(s) of impairment or its appropriate surrogate(s) (Table 2), or a water listed in Appendix A, Parts B, C, or D, the **Permittee** shall:

   a. Modify the **SWPPP** and document all corrective actions, including improvements to **BMPs**, necessary to meet the applicable benchmark values during fourth year monitoring. The **Permittee** shall include any changes in **BMPs** and the timeframe for implementation of all corrective actions. Modifications and upgrades of the **SWPPP** shall be completed no later than 30 days past the discovery of the exceedance.

   b. Implement necessary non-structural **BMPs** no later than 60 days after discovery of the exceedance.

c. Implement structural **BMPs** no later than 180 days after discovery of the exceedance. If the **Permittee** is unable to complete implementation of structural **BMPs** within 180 days, the **Permittee** shall submit a plan to the **Agency** that includes justification why this requirement cannot be met and a specific schedule for completion. The plan shall be submitted no later than 180 days after discovery of the exceedance and shall be submitted to the address in Part V.B.5.b of the permit.

d. Comply with the monitoring requirements of Part V.B.3 (Fourth Year Monitoring).

3. Fourth Year Monitoring (If Applicable)

If sampling conducted in accordance with second year monitoring as required in Part V.B.2 resulted in a benchmark value exceedance, the **Permittee** shall conduct fourth year monitoring, unless the **Permittee** meets the waiver conditions of Part V.B.6.

The fourth year monitoring interval shall begin no later than thirty-six (36) months after the date the **Permittee** is authorized to discharge industrial **stormwater** under this permit. Fourth year monitoring shall be conducted using the procedures outlined in Part V.B.1, and may be limited to only the benchmark parameter(s), and **benchmark monitoring locations** for which benchmark value(s) were exceeded during the second year monitoring.

Once the fourth year samples for each **benchmark monitoring location(s)** have been collected and analyzed, the **Permittee** shall compare the average of the fourth year monitoring results with the applicable benchmark value and refer to the following outcomes to determine what further action may be required.

a. Benchmark Values Are Not Exceeded

Further monitoring for those pollutants is not required, unless during subsequent years of permit authorization, a new **impaired water** has been listed, and the **facility** has a **monitoring location** from which the discharge flows to, and is within **one mile** of, the **impaired water**. In this case, the **Permittee** shall:

1. Complete additional monitoring for the benchmark parameter(s) for which the recently listed water is impaired. This only applies if the pollutant(s) of impairment or its appropriate surrogate(s) (Table 2) is among the list of benchmark parameters specified for the **Permittee's** industrial sector(s).

2. No later than 180 days following the approved listing of the **impaired water**, begin the additional monitoring for the pollutant(s) of impairment or its appropriate surrogate(s), using the procedures outlined in Part V.B.1.

3. At the completion of monitoring, follow Part V.B.3.a or Part V.B.3.b, whichever applies.

b. Benchmark Values Are Exceeded

If the average concentration of any benchmark parameter exceeds a benchmark value specified in Part VII at the completion of the fourth year monitoring, the **Permittee** shall:

1. Modify the **SWPPP** and document all corrective actions, including improvements to **BMPs**, necessary to meet the applicable benchmark values during fifth year monitoring. The **Permittee** shall include any changes in **BMPs** and the timeframe for implementation of all corrective actions. Modifications and upgrades of the **SWPPP** shall be completed no later than 30 days past the discovery of the exceedance.

2. Implement necessary non-structural **BMPs** no later than 60 days after discovery of the exceedance.

3. Implement structural **BMPs** no later than 180 days after discovery of the exceedance. If the **Permittee** is unable to complete implementation of structural **BMPs** within 180 days, the **Permittee** shall submit a plan to the **Agency** that includes justification why this requirement cannot be met and a specific schedule for completion. The plan shall be submitted no later than 180 days after discovery of the exceedance and shall be submitted to the address in Part V.B.5.b of the permit.

4. Submit a Benchmark Exceedance Report to the address listed in Part V.B.5.b, which describes the inability to meet the benchmark values. The report shall describe in detail the technical basis and reasons why the benchmark values cannot be met. The Benchmark Exceedance Report shall be submitted to the **Agency** no later than 30 days after the fourth sampling interval of the monitoring year.

5. Comply with the monitoring requirements of Part V.B.4 (Fifth Year Monitoring).

4. Fifth Year Monitoring (If Applicable)

If sampling conducted in accordance with fourth year monitoring as required in Part V.B.3 resulted in a benchmark value exceedance, the **Permittee** shall conduct fifth year monitoring, unless the **Permittee** meets the waiver conditions of Part V.B.6.

The fifth year monitoring interval shall begin no later than forty-eight (48) months after the date the **Permittee** is authorized to discharge industrial **stormwater** under this permit. Fifth year monitoring shall be conducted using the procedures outlined in

Part V.B.1, and may be limited to only the benchmark parameter(s), and **benchmark monitoring locations** for which a benchmark value was exceeded during the fourth year monitoring.

Once the fifth year samples for each **benchmark monitoring location(s)** have been collected and analyzed, the **Permittee** shall compare the average of the fifth year monitoring results with the applicable benchmark value and refer to the following outcomes to determine what further action may be required.

a. Benchmark Values Are Not Exceeded

Further monitoring for those pollutants is not required, unless during subsequent years of permit authorization, a new **impaired water** has been listed, and the **facility** has a **monitoring location** from which the discharge flows to, and is within **one mile** of, the **impaired water**. In this case, the **Permittee** shall:

1. Complete additional monitoring for the benchmark parameter(s) for which the recently listed water is impaired. This only applies if the pollutant(s) of impairment or its appropriate surrogate(s) (Table 2) is among the list of benchmark parameters specified for the **Permittee's** industrial sector(s).

2. No later than 180 days following the approved listing of the **impaired water**, begin the additional monitoring for the pollutant(s) of impairment or its appropriate surrogate(s), using the procedures outlined in Part V.B.1.

3. At the completion of monitoring, follow Part V.B.4.a or Part V.B.4.b, whichever applies.

b. Benchmark Values Are Exceeded

If the average concentration of any benchmark parameter(s) exceeds a benchmark value specified in Part VII at the completion of the fifth year monitoring, the **Permittee** shall:

1. Modify the **SWPPP** and document all corrective actions, including improvements to **BMPs**, necessary to meet the applicable benchmark values during subsequent monitoring. The **Permittee** shall include any changes in **BMPs** and the timeframe for implementation of all corrective actions. Modifications and upgrades of the **SWPPP** shall be completed no later than 30 days past the discovery of the exceedance.

2. Implement necessary non-structural **BMPs** no later than 60 days after discovery of the exceedance.

3. Implement structural **BMPs** no later than 180 days after discovery of the exceedance. If the **Permittee** is unable to complete implementation of

structural **BMPs** within 180 days, the **Permittee** shall submit a plan to the **Agency** that includes justification why this requirement cannot be met and a specific schedule for completion. The plan shall be submitted no later than 180 days after discovery of the exceedance and shall be submitted to the address in Part V.B.5.b of the permit.

4. Submit a Benchmark Exceedance Report to the address listed in Part V.B.5.b, which describes the inability to meet the benchmark values. The report shall describe in detail the technical basis and reasons why the benchmark values cannot be met. The Benchmark Exceedance Report shall be submitted to the **Agency** no later than 30 days after the fourth sampling interval of the monitoring year.

5. Continue benchmark monitoring of the benchmark parameter(s) exceeded during year 5. The benchmark monitoring interval shall begin 60 months after the **Permittee's** authorization to discharge **stormwater** under this permit and the **Permittee** shall conduct the repeat benchmark monitoring using the same procedures as outlined in Part V.B.4 (Fifth Year Monitoring).

5. <u>Benchmark Monitoring Data Reporting</u>

a. The **Permittee** shall submit the results of benchmark monitoring required by this permit on a **Stormwater** Monitoring Report form provided by the **Agency**. The information must be recorded in the specified areas on the form and in the units specified (Minn. R. 7001.1090, subp. 1(D), Minn. R. 7001.0150, subp. 2(B)).

   If during the sampling period, measurable runoff is such that a sample cannot be acquired (due to weather conditions and/or site soil characteristics), the **Permittee** shall check the "No Flow" box and note the conditions on the Stormwater Monitoring Report.

b. The **Permittee** shall submit the **Stormwater** Monitoring Report form to the **Agency** postmarked by the 21st day of the month following the sampling interval. The **Permittee** may submit the form using the electronic submittal process or by mailing the form to the following address:

   MPCA
   Attn: WQ Submittals Center
   520 Lafayette Road North
   St. Paul, MN 55155-4194.

c. The **Permittee** shall immediately submit an amended **Stormwater** Monitoring Report to the **Agency** upon discovery by the **Permittee** or notification by the **Agency** that the **Permittee** has submitted an incomplete or incorrect report. The amended report shall contain the missing or corrected data along with a cover letter explaining the circumstances of the incomplete or incorrect report. (Minn. R. 7001.0150, subp. 3(G)).

6. Benchmark Monitoring Waivers

a. General Benchmark Monitoring Waiver

Unless precluded by Part VII of the permit, the **Permittee** is not required to conduct benchmark monitoring in accordance with Part V of this permit if the **Permittee** documents in the **facility's SWPPP**, and the appropriate sections of a **Stormwater** Monitoring Report submitted to the **Agency** (a **Stormwater** Monitoring Report may be submitted at any time for this purpose), that one or more of the following options is being met at the **facility** or a portion of the **facility**.

1. Infiltration **BMPs** have been designed, constructed, and operated in accordance with Appendix C.

2. Pond **BMPs** have been designed, constructed, and operated in accordance with Appendix C.

b. Run-On Demonstration Waiver

If the average concentration of any benchmark parameter(s) sampled over the course of a sampling year shows that an applicable benchmark value has been exceeded at a specific **benchmark monitoring location**, and the **Permittee** believes that drainage onto the site from up-gradient sources (run-on) may have significantly contributed to or caused the benchmark value exceedance, the **Permittee** can discontinue monitoring for that pollutant parameter if terms and conditions of this part are met. To qualify for this waiver, the **Permittee** shall demonstrate that the average of all samples taken of a specific pollutant parameter of the run-on is significantly contributing to, and causing, the pollutant parameter exceedance at the **benchmark monitoring location.** At a minimum, the **Permittee** must conduct the following activities to complete the demonstration:

1. Sample the run-on prior to co-mingling with other **stormwater** discharges, and analyze the run-on against the pollutant parameter for which the benchmark value was exceeded.

2. Include with the **SWPPP** a run-on demonstration narrative that describes the following:

   a. Nature of the run-on including a description of the adjacent property, land use type, and the activity believed to be responsible for the **stormwater** contamination.

b. The dates and lab results of the samples taken for comparison purposes of the **facility benchmark monitoring locations** and the sampling points selected for run-on sampling.

c. A statement that the **Permittee** has assessed and is reasonably assured the run-on flows to, and is directly affecting or related to, the specific **benchmark monitoring location** for which a benchmark value has been exceeded.

d. Any efforts taken by the **Permittee** to divert or otherwise minimize run-on to the **facility**.

e. Any other relevant information that supports the **Permittee's** use of this waiver.

3. Complete the appropriate sections of a **Stormwater** Monitoring Report and submit it to the **Agency** (a **Stormwater** Monitoring Report may be submitted at any time for this purpose).

4. Address the use of this waiver in all subsequent Annual Report submittals to the **Agency.**

c. Natural Background Pollutant Waiver

If during the course of benchmark monitoring the average concentration of a benchmark parameter exceeds a benchmark value, and the **Permittee** demonstrates to the **Agency** that the exceedance of the benchmark value is attributable to the presence of that pollutant in the natural background (pollutants from former site operations or run-on are not natural background), the **Permittee** is not required to perform corrective actions or additional benchmark monitoring of that benchmark parameter provided that:

1. The **Permittee** demonstrates that the average of all samples taken of a specific benchmark parameter of the natural background is significantly contributing to, and causing, the benchmark value exceedance at the **benchmark monitoring location.**

2. The **Permittee** documents and maintains with the **SWPPP** the supporting rationale for concluding the benchmark value exceedance(s) are attributable to natural background pollutant levels. The **Permittee** shall include with the supporting rationale any previously collected data that describes the levels of natural background pollutants in the industrial **facility stormwater** discharge.

3. The **Permittee** submits notification to the **Agency** by completing the appropriate sections of a **Stormwater** Monitoring Report (a **Stormwater** Monitoring Report may be submitted at any time for this purpose) that the

benchmark value exceedance(s) are attributable to natural background pollutant levels. In addition, the **Permittee** shall address the use of this waiver in all subsequent Annual Report submittals to the **Agency.**

PART VI. EFFLUENT MONITORING REQUIREMENTS

A. Any **Permittee** that conducts the activities listed in Table 3 below and that has **surface water** discharges shall comply with the effluent limitations prescribed in the sector-specific requirements of Part VII. The **Permittee** shall identify an **effluent monitoring location** any place at the **facility** where **industrial activity** with an effluent limit occurs. The **Permittee** shall monitor each **effluent monitoring location** identified in the **SWPPP**, in accordance with the procedures outlined in Part VI.B.

Table 3

Regulated Activity	**Effluent Limit**	**Monitoring Frequency**
Discharges from wet decking storage areas	See Sector A	1/year
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	See Sector C	1/year
Runoff from asphalt emulsion facilities	See Sector D	1/year
Runoff from material storage piles at cement manufacturing facilities	See Sector E	1/year
Mine dewatering discharges at construction sand and gravel, or industrial sand mining facilities	See Sector J	1/year
Runoff from hazardous waste landfills	See Sector K	1/year
Runoff from non-hazardous waste landfills	See Sector L	1/year
Runoff from coal storage piles at steam electric generating facilities	See Sector O	1/year

B. Required Effluent Monitoring Procedures and Sample Collection Methods

1. One (1) sample shall be collected annually from each **effluent monitoring location** identified in the **SWPPP** and analyzed for each required effluent limit parameter specified in Part VII. The sample(s) shall be collected each calendar year the **Permittee** is authorized to discharge industrial **stormwater** under this permit.

2. Samples shall be collected during any measurable runoff event at an **effluent monitoring location**. The sample(s) shall be collected within the first 30 minutes of the measurable runoff event. If it is not possible to collect the sample(s) within the first 30 minutes, the sample(s) shall be collected as soon as practicable after the first 30 minutes and documentation must be included with the Discharge Monitoring Report (DMR) that explains why it was not possible to collect the sample(s) within the first 30 minutes.

3. Samples shall either be taken manually by grab method, or by automated sampling. If automated sampling is used, the device shall either collect one sample during the first 30 minutes of discharge or a series of samples collected throughout the discharge period combined as a composite sample.

4. If the **Permittee** has determined that an **effluent monitoring location** and a **benchmark monitoring location** are at the same location, and the effluent sampling of a pollutant parameter coincides with the sampling of a benchmark pollutant parameter, the **Permittee** may collect one sample to be analyzed for both purposes.

C. Effluent Limit Exceedances

If sampling by the **Permittee** indicates a violation of any effluent limitation specified in this permit, the **Permittee** shall immediately make every effort to verify the violation by collecting additional samples; if appropriate, investigate the cause of the violation and take action to prevent future violations. Violations that are determined to pose a threat to human health or a drinking water supply, or represent a significant risk to the environment shall be immediately reported to the Minnesota Department of Public Safety Duty Officer at 1-800-422-0798 (toll free) or 651-649-5451 (metro area). In addition, the **Permittee** may also contact the **Agency** during business hours. Otherwise, the violations and the results of any additional sampling shall be recorded on the next appropriate DMR or report.

D. Effluent Monitoring Data Reporting

1. The effluent monitoring results shall be submitted on a DMR form provided by the **Agency**. The information must be recorded in the specified areas on the form and in the units specified (Minn. R. 7001.1090, subp. 1(D), Minn. R. 7001.0150, subp. 2(B)).

   If during the sampling period, measurable runoff at the **effluent monitoring location** is such that a sample cannot be acquired (due to weather conditions and/or site soil characteristics); the **Permittee** shall check the "No Flow" box and note the conditions on the DMR.

2. A DMR shall be submitted for each required **effluent monitoring location** even if a discharge did not occur during the sampling period. (Minn. R. 7001.0150, subps. 2(B) and 3(H)).

3. The **Permittee** shall submit the DMR form to the **Agency** postmarked by the 21st day after the end of the calendar month in which the sample was collected. The **Permittee** may submit the form using the electronic submittal process or by mailing the form to the following address:

   MPCA
   Attn: WQ Submittals Center
   520 Lafayette Road North
   St. Paul, MN 55155-4194.

4. The **Permittee** shall immediately submit an amended DMR to the **Agency** upon discovery by the **Permittee** or notification by the **Agency** that the **Permittee** has submitted an incomplete or incorrect report. The amended report shall contain the missing or corrected data along with a cover letter explaining the circumstances of the incomplete or incorrect report. (Minn. R. 7001.0150, subp. 3(G)).

PART VII. SECTOR-SPECIFIC REQUIREMENTS

The **Permittee** shall comply with Part VII (sector-specific requirements) for any **primary SIC code** and/or **narrative activity** and **co-located industrial activities** as defined in Appendix E of this permit. The sector-specific requirements apply to those areas of the **Permittee's facility** where those sector-specific activities occur. These sector-specific requirements are in addition to requirements specified elsewhere in this permit.

A. Timber Products

1. Authorized **Stormwater** Discharges

   The requirements in Sector A apply to **stormwater discharges associated with industrial activity** from timber products facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector A

   Permittees under Sector A are primarily engaged in the following types of activities:

   a. Log storage or handling areas (wet deck storage areas only authorized if no chemical additives are used in the spray water applied to the logs).

   b. Mills, including merchant, lath, shingle, cooperage stock, planing, plywood, and veneer.

   c. Producing lumber and wood-based materials.

   d. Wood preserving.

   e. Manufacturing finished articles made entirely of wood or related materials except wood kitchen cabinet manufacturers.

   f. Manufacturing wood buildings or mobile homes.

3. Limitation on Authorization

   Discharges not authorized by this permit:

   Stormwater discharges from areas where there may be contact with the chemical formulations sprayed to provide surface protection. These discharges must be authorized by a separate NPDES/SDS permit.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping *(No additional requirements)*.

   d. Inspections.

1. If the **Permittee** performs wood surface protection and preservation activities, the **Permittee** shall inspect all processing areas that are subject to compliance with 40 CFR 264 and 265, subp. W, to assess the effectiveness of BMPs used to eliminate all discharges of chemical preservatives. Any discharge from these areas is considered process wastewater and is not **stormwater**, and will require separate NPDES/SDS authorization.

2. The **Permittee** shall conduct inspections of treated wood storage areas to assess the effectiveness of BMPs used to eliminate or minimize the discharge of **stormwater** that has contacted wood preservation chemicals.

e. Preventive Maintenance *(No additional requirements)*.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific Control Measures.

The **Permittee** shall provide complete secondary containment, for all **significant materials** stored indoors and outdoors, (e.g. arsenic, chromium, zinc, copper, and phenolic solution storage tanks and structures). Also, the **Permittee** shall drain contained **stormwater** from outdoor storage tanks and structures only after inspection demonstrates that no **stormwater** contact with solutions has occurred.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map *(No additional requirements)*.

b. Inventory of Exposed Materials.

If the **Permittee** uses chlorophenolic, Pentachlorophenol, creosote, or chromium-copper-arsenic formulations for wood surface protection or preserving, the following shall be identified and documented in the **SWPPP**:

1. Areas where contaminated soils from treatment equipment, and stored materials still remain.

2. The management practices employed to prevent the contact of these materials with **stormwater** runoff.

c. Potential Pollutant Sources *(No additional requirements)*.

d. Description of **Stormwater** Controls.

The **Permittee** shall describe **BMPs** implemented to address the following sources for pollution potential:

1. Log, lumber and wood product storage areas.

2. Residue storage areas.

3. Chemical storage areas.

If the **Permittee** performs wood surface protection and preservation activities, address the specific **BMPs** for these activities.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Parts V and VI, the **Permittee** shall monitor the applicable parameters in Table A-1, below:

Table A-1

Sector-Specific Benchmark Values and Effluent Limitations.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values	Effluent limits
A1 General Sawmills/Planing Mills	COD (Chemical Oxygen Demand)	120 mg/L	Effluent Monitoring Not Required
	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
	Zinc, Total (as Zn)	0.234 mg/L [1]	Effluent Monitoring Not Required
A2 Wood Preserving	Arsenic, Total (as As)	0.680 mg/L	Effluent Monitoring Not Required
	Copper, Total (as Cu)	0.028 mg/L [1]	Effluent Monitoring Not Required
	Chromium, Total (as Cr)	3.5 mg/L [1]	Effluent Monitoring Not Required
	Pentachlorophenol (PCP)	0.011 mg/L	Effluent Monitoring Not Required
	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
A3 Log Storage and Handling	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
A4 Discharges From Wet Decking Storage Areas	pH [4]	Benchmark Monitoring Not Required	6.0-9.0 SU
	Debris	Benchmark Monitoring Not Required	No discharge of debris that will not pass through a 2.54cm (1 inch) round opening, instantaneous maximum (visual assessment) [3]
A5 Hardwood Dimension and Flooring Mills	COD (Chemical Oxygen Demand)	120 mg/L	Effluent Monitoring Not Required
	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required

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 Table 4 of Appendix B 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 Appendix A, part F.1, 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 Minnesota Department of Health for this analysis.

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   a. **Industrial Stormwater Ponds**

      1. The **Permittee** of a sector A industrial **facility** not operating under an SIC code of 2491 (wood preserving) is authorized to use **industrial stormwater ponds** for **stormwater** management without additional restrictions.

      2. The **Permittee** of a sector A industrial **facility** operating under an SIC code of 2491 (wood preserving) is authorized to use **industrial stormwater ponds** for **stormwater** management provided that any **industrial stormwater pond** constructed after the **effective date** of this permit meets the following design criteria. Any **Permittee** required to comply with this part is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

         a. The **industrial stormwater pond** must be lined with a synthetic liner that is chemically compatible with materials expected to enter the pond, must be Ultra Violet (UV) stable, and must be designed to restrict infiltration to less than 500 gallons per acre per day.

         b. The **industrial stormwater pond** must be designed in accordance with accepted engineering practices. (See **Agency** "Recommended Pond Design Criteria" December 2009, Document number: wq-wwtp5-53 and any applicable supporting technical criteria)

   b. **Infiltration Devices**

      1. The **permittee** of a sector A industrial **facility** not operating under an SIC code of 2491 (wood preserving) is authorized to use a designed **infiltration device** for industrial **stormwater** management and is not required to comply with Part VII.A.8.b.2, below.

      2. The **permittee** of a sector A industrial **facility** operating under an SIC code of 2491 (wood preserving) is authorized to use a designed **infiltration device**, implemented prior to the **effective date** of this permit, for **stormwater** management provided the **Permittee** complies with the following requirements:

         a. The **Permittee** shall conduct benchmark monitoring in accordance with the terms and conditions of Part V of all industrial **stormwater** prior to infiltration. However, any **Permittee** required to comply with this part that

is using a designed **infiltration device** to manage industrial **stormwater** is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

b. If the **Permittee** has a designed **infiltration device** operating prior to the **effective date** of this permit, the **Permittee** is authorized to continue using that device. However, on or after the **effective date** of this permit, the **Permittee** is not authorized to construct new **infiltration devices,** expand infiltration activities or practices that result in infiltration, or expand volume of infiltration.

B. Paper and Allied Products Manufacturing

1. Authorized **Stormwater** Discharges

   The requirements in Sector B apply to **stormwater discharges associated with industrial activity** from paper and allied products manufacturing facilities, and include **stormwater** runoff from wood storage areas and other raw and product material storage areas, as identified by the **industrial activity** codes specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector B

   Permittees under Sector B are primarily engaged in the following types of activities:

   a. Paperboard mills.

   b. Pulp mills.

   c. Paper mills.

   d. Paperboard containers and boxes.

   e. Converted paper and paperboard products, except containers and boxes

3. Limitations on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Control Measures *(No Additional Requirements)*

6. **SWPPP** Requirements *(No Additional Requirements)*

7. Monitoring and Reporting Requirements

   In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table B-1, below:

Table B-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
B1 Pulp, Paper, Cardboard, Converted Paper and Paperboard Products	Solids, Total Suspended (TSS)	100 mg/L [1]
	COD (Chemical Oxygen Demand)	120 mg/L

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector B industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

C. Chemical and Allied Products Manufacturing

1. Authorized **Stormwater** Discharges

   The requirements in Sector C apply to **stormwater discharges associated with industrial activity** from Chemical and Allied Products Manufacturing facilities as identified by the **industrial activity** codes specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector C

   Permittees under Sector C are primarily engaged in the following types of activities:

   a. Industrial inorganic chemicals.

   b. Plastic materials and synthetic resins, synthetic rubbers, and cellulosic and other human made fibers, except glass.

   c. Soap and other detergents, including facilities producing glycerin from vegetable and animal fats and oils; specialty cleaning, polishing, and sanitation preparations.

   d. Surface active preparations used as emulsifiers, wetting agents, and finishing agents, including sulfonated oils; and perfumes, cosmetics, and other toilet preparations.

   e. Paints (in paste and ready-mixed form); varnishes; lacquers; enamels and shellac; putties, wood fillers, and sealers; paint and varnish removers; paint brush cleaners; and allied paint producers.

   f. Industrial organic chemicals.

   g. Industrial and household adhesives, glues, caulking compounds, sealants, and linoleum, tile, and rubber cements from vegetable, animal, or synthetic plastic materials; explosives; printing ink, including gravure, screen process, and lithographic inks; miscellaneous chemical preparations such as fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry soaps, writing and stamp pad ink, industrial compounds such as boiler and heat insulating compounds, and chemical supplies for foundries.

   h. Ink and paints, including china painting enamels, India ink (a type of drawing ink), platinum paints for burnt wood or leather work, paints for china painting, artist’s paints and water colors.

   i. Nitrogenous and phosphatic basic fertilizers, mixed fertilizers, pesticides, and other agricultural chemicals.

j. Medicinal chemicals and botanical products; pharmaceutical preparations in vitro and in vivo diagnostic substances; biological products, except diagnostic substances.

3. Limitations on Authorization

The following discharges are not authorized by this permit:

a. **Non-stormwater discharges** containing inks, paints, other hazardous or non-hazardous substances, etc. resulting from an on-site spill, including materials collected in drip pans.

b. Washwater from material handling and processing areas.

c. Washwater from drum, tank, or container rinsing and cleaning.

d. Discharges of runoff from coal yards and coal piles. The discharge of any coal yard and coal pile runoff is considered a wastewater and shall be regulated by a separate NPDES/SDS permit.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

a. Employee Training *(No additional requirements)*.

b. Erosion and Sedimentation Controls *(No additional requirements)*.

c. Good Housekeeping *(No additional requirements)*.

d. Inspections.

In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance *(No additional requirements)*.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements.

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify where any of the following may be exposed to **stormwater**:

1. Access roads, rail cars, and tracks.

2. Areas where substances are transferred in bulk.

3. Operating machinery.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following sources that have potential pollutants associated with them:

1. Outdoor storage of salt, pallets, coal, drums, containers.

2. Access roads, rail cars, and tracks.

3. Areas where the transfer of substances in bulk occurs.

4. Areas where machinery operates.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Parts V and VI, the **Permittee** shall monitor the applicable parameters in Table C-1, below:

Table C-1

Sector-Specific Benchmark Monitoring Values and Effluent Limitations.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values	Effluent Limits
C1 Phosphate Subcategory of Agricultural Chemicals	Phosphorus, Total (as P)	Benchmark Monitoring Not Required	105 mg/L daily maximum
			35 mg/L calendar month average
	Fluoride, Total (as F)	Benchmark Monitoring Not Required	75 mg/L daily maximum
			25 mg/L calendar month average
C2 Agricultural Chemicals	Lead, Total (as Pb)	0.164 mg/L [1]	Effluent Monitoring Not Required
	Iron, Total (as Fe)	1.0 mg/L	Effluent Monitoring Not Required
	Zinc, Total (as Zn)	0.234 mg/L [1]	Effluent Monitoring Not Required
	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
	Phosphorus, Total (as P)	1.0 mg/L	Effluent Monitoring Not Required
C3 Industrial Inorganic Chemicals	Aluminum, Total (as Al)	1.5 mg/L	Effluent Monitoring Not Required
	Iron, Total (as Fe)	1.0 mg/L	Effluent Monitoring Not Required
	Zinc, Total (as Zn)	0.234 mg/L [1]	Effluent Monitoring Not Required
	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
C4 Soaps, Detergents, Cosmetics, Perfumes	Zinc, Total (as Zn)	0.234 mg/L [1]	Effluent Monitoring Not Required
	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
C5 Plastics, Synthetics, Resins	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
	Zinc, Total (as Zn)	0.234 mg/L [1]	Effluent Monitoring Not Required
	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	Effluent Monitoring Not Required

Subsector	Parameter	Benchmark Values	Effluent Limits
C6 Medicinal Chemicals and Botanical Products	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
C7 Ethanol Facilities	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	Effluent Monitoring Not Required

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector C industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

D. Asphalt Paving and Roofing Materials and Lubricant Manufacturing

1. Authorized **Stormwater** Discharges

   The requirements in Sector D apply to **stormwater discharges associated with industrial activity** from asphalt paving and roofing materials and lubricant manufacturing facilities as identified by the **industrial activity** codes specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector D

   Permittees under Sector D are primarily engaged in the following types of activities:

   a. Manufacturing asphalt paving mixtures blocks and roofing materials.

   b. Stationary and portable asphalt plant facilities.

   c. Manufacturing lubricating oils and greases and miscellaneous products of petroleum and coal.

3. Limitations on Authorization

   The following industrial **stormwater discharges associated with industrial activity** are not authorized by this permit:

   a. Discharges from petroleum refining facilities, including those that manufacture asphalt or asphalt products that are classified as SIC Code 2911.

   b. Discharges from oil recycling facilities.

   c. Discharges associated with fats and oils rendering.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Control Measures

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Control *(No additional requirements)*.

   c. Good Housekeeping *(No additional requirements)*.

   d. Inspections.

      1. The **Permittee** shall inspect the following areas: material storage and handling areas; liquid storage tanks, hoppers, and silos; vehicle and equipment

maintenance, cleaning, and fueling areas; and material handling vehicles, equipment, and processing areas. Ensure that appropriate action is taken in response to the inspection by using follow-up procedures. Document in the **SWPPP** the inspections and follow up actions.

2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance *(No additional requirements)*.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements *(No Additional Requirements)*

7. Monitoring and Reporting Requirements

   In accordance with the monitoring requirements of Parts V and VI, the **Permittee** shall monitor the applicable parameters in Table D-1, below:

Table D-1

Sector-Specific Benchmark Monitoring Values and Effluent Limitations.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values	Effluent Limits
D1 Asphalt Paving and Roofing Materials	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required
D2 Discharges from Production of Asphalt Emulsions Areas	Solids, Total Suspended (TSS)	Benchmark Monitoring Not Required	23 mg/L daily maximum
			15 mg/L calendar month average
	pH	Benchmark Monitoring Not Required	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
	Oil & Grease, Total	Benchmark Monitoring Not Required	15 mg/L daily maximum
			10 mg/L calendar month average
D3 Miscellaneous Products of Petroleum and Coal	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector D industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

E. Glass, Clay, Cement, Concrete, and Gypsum Products

1. Authorized **Stormwater** Discharges

   The requirements in Sector E apply to **stormwater discharges associated with industrial activity** from glass, clay, cement, concrete, and gypsum products facilities, as identified by the **industrial activity** codes specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector E

   Permittees under Sector E are primarily engaged in the following types of activities:

   a. Flat glass.

   b. Glass containers.

   c. Pressed and blown glass.

   d. Hydraulic cement.

   e. Structural clay products, including tile and brick.

   f. Pottery and related products, including porcelain electric supplies.

   g. Concrete, gypsum, and plaster products.

   h. Glass products made of purchased glass.

   i. Cut stone and stone products.

   j. Abrasives, asbestos products; and miscellaneous non metal mineral products, mineral wool and mineral wool insulation products.

   k. Non-clay refractories.

3. Limitations on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping.

The **Permittee** shall prevent or minimize the discharge of spilled cement, aggregate (including sand or gravel), kiln dust, fly ash, or settled dust from paved portions of the **facility** that are exposed to **stormwater**. The **Permittee** shall determine the frequency of sweeping or equivalent by the amount of **industrial activity** occurring in the area and the frequency of exposure to **stormwater**, but it shall be performed at least once per week if cement, aggregate, kiln dust, fly ash, or settled dust are being handled or processed.

d. Inspections.

Dust collection and containment systems must be included in the **facility** inspections.

e. Preventive Maintenance.

For facilities producing ready-mix concrete, concrete block, brick, or similar products, the **permittee** shall include measures in the **SWPPP** to ensure that process wastewater resulting from washing trucks, mixers, transport buckets, forms, or other equipment are discharged in accordance with a separate applicable NPDES/SDS permit.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify the following locations:

1. Bag house or other dust control device.

2. Recycle/sedimentation pond, clarifier, or other device used for the treatment of process wastewater.

3. The areas that drain to the treatment device.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources *(No additional requirements)*.

d. Description of **Stormwater** Controls *(No additional requirements).*

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Parts V and VI, the **Permittee** shall monitor the applicable parameters in Table E-1, below:

Table E-1

Sector-Specific Benchmark Monitoring Values and Effluent Limitations.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values	Effluent Limits
E1 Clay Products Manufacturers	Aluminum, Total (as Al)	1.5 mg/L	Effluent Monitoring Not Required
	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required
E2 Concrete and Gypsum Product Manufacturers	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required
	Iron, Total (as Fe)	1.0 mg/L	Effluent Monitoring Not Required
E3 Cement Manufacturing Facility, Material Storage Runoff	Solids, Total Suspended (TSS)	Benchmark Monitoring Not Required	50 mg/L daily maximum
	pH	Benchmark Monitoring Not Required	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
E4 Glass, Stone, Abrasive, and Asbestos Manufacturing.	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

Sector E industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

F. Primary Metals

1. Authorized **Stormwater** Discharges

   The requirements in Sector F apply to **stormwater discharges associated with industrial activity** from primary metals, including products and manufacturing facilities, as identified by the **industrial activity** codes specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector F

   Permittees under Sector F are primarily engaged in the following types of activities:

   a. Steel works, blast furnaces, and rolling and finishing mills, including steel wire drawing and steel nails and spikes; cold-rolled steel sheet, strip, and bars; and steel pipes and tubes.

   b. Iron and steel foundries, including gray and ductile iron, malleable iron, steel investment, and steel foundries, not elsewhere classified.

   c. Primary smelting and refining of nonferrous metals, including primary smelting and refining of copper, and primary production of aluminum.

   d. Secondary smelting and refining of nonferrous metals.

   e. Rolling, drawing, and extruding of nonferrous metals, including rolling, drawing, and extruding of copper; rolling, drawing, and extruding of nonferrous metals except copper and aluminum; and drawing and insulating of nonferrous wire.

   f. Nonferrous foundries (castings), including aluminum die-casting, nonferrous die-casting except aluminum, aluminum foundries, copper foundries, and nonferrous foundries except copper and aluminum.

   g. Miscellaneous primary metal products, not elsewhere classified, including metal heat treating and primary metal products not elsewhere classified.

   Activities covered include but are not limited to **stormwater** discharges associated with cooking operations, sintering plants, blast furnaces, smelting operations, rolling mills, casting operations, heat treating, extruding, drawing, or forging all types of ferrous and nonferrous metals, scrap, and ore.

3. Limitations on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

a. Employee Training *(No additional requirements)*.

b. Erosion and Sedimentation Controls *(No additional requirements)*.

c. Good Housekeeping.

The **Permittee** shall include a cleaning and maintenance program for all impervious areas of the **facility** where particulate matter, dust, or debris may accumulate, especially areas where material loading and unloading, storage, handling, and processing occur. The **Permittee** shall also implement a cleaning program which includes regular sweeping for paved areas where vehicle traffic or material storage occur but where vegetative or other stabilization methods are not practicable. For unstabilized areas where sweeping is not practicable, the **Permittee** shall choose alternative **stormwater** management devices that effectively trap or remove sediment.

d. Inspections.

1. The **Permittee** shall conduct inspections addressing air pollution control equipment (e.g. baghouses, electrostatic precipitators, scrubbers, and cyclones) for any signs of degradation (e.g. leaks, corrosion, or improper operation) that could limit efficiency and lead to excessive emissions. The **Permittee** shall monitor air flow at inlets and outlets (or use equivalent measures) to check for leaks (e.g. particulate deposition) or blockage in ducts. Also inspect all process and material handling equipment (e.g. conveyors, cranes, and vehicles) for leaks, drips, or the potential loss of material.

2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance *(No additional requirements)*.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify where the following activities may be exposed to **stormwater**:

1. Storage or disposal of wastes such as spent solvents and baths, sand, slag and dross.

2. Pollution control equipment (e.g. baghouses).

3. Coal, coke, scrap, sand, fluxes, refractories, or metal in any form. In addition, indicate where an accumulation of significant amounts of particulate matter could occur from such sources as furnace or oven emissions and losses from coal and coke handling operations.

b. Inventory of Exposed Material.

The **Permittee** shall include in the inventory of materials, areas where deposition of particulate matter from process air emissions or losses during material-handling activities are possible.

c. Potential Pollutant Sources *(No additional requirements)*.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table F-1, below:

Table F-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
F1 Steel Works, Blast Furnaces, and Rolling and Finishing Mills	Aluminum, Total (as Al)	1.5 mg/L
	Zinc, Total (as Zn)	0.234 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
F2 Iron and Steel Foundries	Aluminum, Total (as Al)	1.5 mg/L
	Copper, Total (as Cu)	0.028 mg/L [1]
	Iron, Total (as Fe)	1.0 mg/L
	Zinc, Total (as Zn)	0.234 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
F3 Rolling, Drawing, and Extruding of Nonferrous Metals	Copper, Total (as Cu)	0.028 mg/L [1]
	Zinc, Total (as Zn)	0.234 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
F4 Nonferrous Foundries	Copper, Total (as Cu)	0.028 mg/L [1]
	Zinc, Total (as Zn)	0.234 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
F5 Primary & Secondary Smelting and Refining of Nonferrous Metals and Miscellaneous Primary Metal Products	Solids, Total Suspended (TSS)	100 mg/L [2]

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector F industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

G. Metal Mining (Ore Mining and Dressing)

1. Authorized **Stormwater** Discharges

The requirements in Sector G apply to **stormwater discharges associated with industrial activity** from metal mining facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D, including mines abandoned on Public lands on or after August 25, 1980, discharges from inactive facilities, and mining sites undergoing reclamation. Coverage is required for metal mining facilities that discharge **stormwater** contaminated by contact with, or that has come in contact with, any overburden, raw material, intermediate product, finished product, byproduct, or waste product located on the site of the operation.

Discharges from the following areas are authorized for active and temporarily inactive facilities:

a. Discharges from waste rock and overburden piles if composed entirely of **stormwater** and not combining with mine drainage.

b. Topsoil piles.

c. Off-site haul and access roads.

d. On-site haul and access roads constructed of waste rock, overburden, or spent ore if discharge is composed entirely of **stormwater** and not combined with mine drainage.

e. On-site haul and access roads not constructed of waste rock, overburden, or spent ore except if mine drainage is used for dust control.

f. Runoff from tailings dams or dikes when not constructed of waste rock or tailings and no process fluids are present.

g. Runoff from tailings dams or dikes when constructed of waste rock or tailings and no process fluids are present, if composed entirely of **stormwater** and not combined with mine drainage.

h. Concentration building if no contact with material piles.

i. Mill site if no contact with material piles.

j. Office or administrative building and housing if mixed with **stormwater** from industrial area.

k. Chemical storage area.

l. Docking facility if no excessive contact with waste product that would otherwise constitute mine drainage.

m. Explosive storage.

n. Fuel storage.

o. Vehicle and equipment maintenance area and building.

p. Power plant.

q. Truck wash areas if no excessive contact with waste product that would otherwise constitute mine drainage.

r. Unreclaimed, disturbed areas outside of active mining area.

s. Partially or inadequately reclaimed areas or areas not released from reclamation requirements.

2. **Industrial Activities** Authorized by Sector G

Permittees under Sector G are primarily engaged in the following types of activities:

a. Mining of ores.

b. Ore dressing and beneficiating, whether performed at co-located, dedicated mills, or at separate (e.g. custom) mills.

c. Reclamation of mining sites.

3. Limitations on Authorization

Discharges not authorized by this permit:

a. Discharges from active metal mining facilities that are subject to effluent limitation guidelines for the Ore Mining and Dressing Point Source Category (40 CFR pt. 440). Discharges that come in contact with overburden or waste rock are subject to 40 CFR pt. 440, and are therefore not authorized under this permit, provided that the discharges drain to a point source (either naturally or as a result of intentional diversion) and they combine with “mine drainage” that is otherwise regulated under the Part 440 regulations. Discharges from overburden or waste rock can be covered under this permit if they are composed entirely of **stormwater**, do not combine with sources of mine drainage that are subject to 40 CFR pt. 440, and meet other eligibility criteria contained in Part I.A.

b. Discharges from exploration sites and land disturbance activities that are conducted to determine the viability of ore extraction and the construction of infrastructure prior to ore extraction, including the building of site access roads and removal of overburden and waste rock, and are not covered by an active mining permit issued by the applicable State or Federal agency. These discharges do not require an NPDES/SDS industrial **stormwater** permit. Discharges from these areas which disturb greater than one acre are covered by the General **Stormwater** Permit for **Construction Activity**.

c. Acid drainage and contaminated springs or seeps. Contaminated seeps and springs discharging from waste rock dumps that do not directly result from precipitation events are not authorized by this permit (see also the standard Limitations on Authorization in Part I.B).

d. Closed or abandoned mine sites where disturbances associated with extraction, beneficiation, or processing of mined materials took place prior to August 25, 1980, and where extraction, beneficiation or processing activities have not taken place after August 25, 1980, are not considered either active or inactive mining facilities and do not require an NPDES/SDS industrial **stormwater** permit.

e. Sites where mining claims are being maintained prior to disturbances associated with extraction, beneficiation, or processing of mined materials and sites where minimal activities are undertaken for the sole purpose of maintaining a mining claim are not considered either active or inactive mining facilities and do not require an NPDES industrial **stormwater** permit.

4. Sector-Specific Definitions

The following definitions do not supersede the definitions of active and inactive mining facilities established by 40 CFR 122.26(b)(14)(iii):

a. *Reclamation* - activities undertaken, in compliance with applicable mined land reclamation requirements, following cessation of the activities associated with extraction through production of a salable product, intended to return the land to an appropriate post-mining land use in order to meet applicable Federal and State reclamation requirements.

b. *Active metal mining facility* - a place where work or other activity related to the extraction, removal, or recovery of metal ore is being conducted. For surface mines, this definition does not include any land where grading has returned the earth to a desired contour and reclamation has begun. This definition is derived from the definition of “active mining area” found at 40 CFR pt. 440.132(a).

c. *Inactive metal mining facility* - a site or portion of a site where metal mining and/or milling occurred in the past but is not an active **facility** as defined above, and where the inactive portion is not covered by an active mining permit issued

by the applicable State or Federal agency. An inactive metal mining facility has an identifiable **Owner**/**Operator**.

d. *Temporarily inactive metal mining facility* - a site or portion of a site where metal mining and/or milling occurred in the past but currently are not being actively undertaken, and the **facility** is covered by an active mining permit issued by the applicable State or Federal agency.

5. **Stormwater** Controls

a. Employee Training.

The **Permittee** shall conduct training at active and temporarily inactive sites. All training regardless of site type shall be documented in the **facility's SWPPP**.

b. Erosion and Sedimentation Controls *(No additional requirements)*.

c. Good Housekeeping *(No additional requirements)*.

d. Inspections.

The **Permittee** shall conduct site inspections in accordance with Part III.F, of the permit. If the **facility** is inactive and unstaffed, temporarily inactive and unstaffed as defined above, or is a site undergoing reclamation, the **Permittee** is waived from the requirement to conduct monthly **facility** inspections in Part III.F.1, and shall conduct semiannual inspections in accordance with Part III.F.2. The **Permittee** shall inspect the site when the **Permittee** has reason to believe that severe weather or natural disasters may have damaged **stormwater** control measures or increased discharges.

If circumstances change and the **facility** becomes active and/or staffed, this exception no longer applies and compliance with monthly inspection requirements in accordance with Part III.F.1 shall begin immediately.

The **Agency** retains the authority to revoke this waiver where it is determined that the discharge causes, has a reasonable potential to cause, or contributes to an in-stream excursion above an applicable **water quality standard**, including designated uses.

e. Preventive Maintenance *(No additional requirements)*.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff.

If treatment of **stormwater** (e.g. chemical or physical systems, oil and water separators, artificial wetlands) is necessary to protect water quality, describe the type and location of treatment used. Passive and/or active treatment of **stormwater** runoff is encouraged where practicable. Treated runoff may be discharged as a **stormwater** source regulated under this permit provided the discharge is not combined with discharges subject to effluent limitation guidelines for the Ore Mining and Dressing Point Source Category (40 CFR pt. 440).

h. Other Industry specific Controls Measures.

When capping is necessary to minimize pollutant discharges in **stormwater**, identify the source being capped and the material used to construct the cap.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall document in the **SWPPP** the locations of the following (as appropriate):

1. Mining or milling site boundaries.

2. Access and haul roads.

3. Outline of the drainage areas of each **monitoring location** within the facility with indications of the types of discharges from the drainage areas.

4. Location(s) of all permitted discharges covered under an individual NPDES/SDS permit, outdoor equipment storage, fueling, and maintenance areas.

5. Materials handling areas.

6. Outdoor manufacturing, outdoor storage, and material disposal areas.

7. Outdoor chemicals and explosives storage areas.

8. Overburden, materials, soils, or waste storage areas.

9. Location of mine drainage (where water leaves mine) or other process water.

10. Tailings piles and ponds (including those proposed).

11. Heap leach pads.

12. Off-site points of discharge for mine drainage and process water.

13. **Surface waters**.

14. Boundary of tributary areas that are subject to effluent limitations guidelines.

15. Location(s) of sites undergoing reclamation and reclaimed areas.

b. Inventory of Exposed Materials.

The **Permittee** shall document in the **SWPPP** the mining and associated activities that can potentially affect **stormwater**, including a general description of the location of the site relative to major transportation routes and communities**.**

c. Potential Pollutant Sources.

For each area of the mine or mill site where **stormwater discharges associated with industrial activities** occur, the **Permittee** shall identify the types of pollutants (e.g. heavy metals, sediment) likely to be present in significant amounts. The **Permittee** shall consider the following factors:

1. The mineralogy of the ore and waste rock (e.g. acid forming).

2. Toxicity and quantity of chemicals used, produced, or discharged.

3. The likelihood of contact with **stormwater**.

4. Vegetation of site (if any).

5. History of significant leaks or spills of toxic or hazardous pollutants. Also include a summary of any existing ore or waste rock or overburden characterization data and test results for potential generation of acid rock. If any new data is acquired due to changes in ore type being mined, the **Permittee** shall update the **SWPPP** with this information.

d. Description of **Stormwater** Controls.

The **Permittee** shall document all control measures that are implemented consistent with Part 5. If control measures are implemented or planned but are not listed in Part 5, above, the **Permittee** shall include descriptions of these controls in the **SWPPP**.

7. Monitoring and Reporting Requirements

a. Monitoring and reporting requirements in this part do not apply to unstaffed inactive and temporarily inactive facilities or sites undergoing reclamation.

b. In accordance with the benchmark monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table G-1, below.

Table G-1

Sector-Specific Benchmark Monitoring Values for Active Copper Ore Mining and Dressing Facilities. Discharges may be subject to requirements for more than one sector or subsector.

Table G-1		
Subsector	**Parameter**	**Benchmark Values**
G1 Active Copper Ore Mining, Dressing Facilities	Solids, Total Suspended (TSS)	100 mg/L [3]
	Nitrite Plus Nitrate, Total (as N)	0.68 mg/L
	COD (Chemical Oxygen Demand)	120 mg/L

c. In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table G-2. The **Permittee** may be notified by the **Agency** that additional monitoring must be conducted to accurately characterize the quality and quantity of pollutants discharged from waste rock and overburden piles.

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.

Table G-2.		
Subsector	**Parameter**	**Benchmark Values**
G2 Active Metal Mining Facilities	Solids, Total Suspended (TSS)	100 mg/L [3]
	pH [4]	6.0-9.0 SU
	Hardness, Calcium & Magnesium, Calculated (as CaCO3)[1]	no benchmark value
	Antimony, Total (as Sb)	0.18 mg/L
	Arsenic, Total (as As)	0.680 mg/L
	Cadmium, Total (as Cd) [1]	0.0078 mg/L [2]
	Copper, Total (as Cu) [1]	0.028 mg/L [2]
	Iron, Total (as Fe)	1.0 mg/L

	Lead, Total (as Pb) [1]	0.164 mg/L [2]
	Nickel, Total (as Ni) [1]	0.938 mg/L [2]
	Selenium, Total (as Se)	0.040 mg/L
	Silver, Total (as Ag) [1]	0.0041 mg/L [2]
	Zinc, Total (as Zn) [1]	0.234 mg/L [2]

1. *The benchmark values of some metals are dependent on water hardness. For these parameters, the **Permittee** shall determine the hardness of the receiving water to identify the applicable 'hardness range' for determining their benchmark value. See Table 4 of Appendix B for hardness dependent benchmark values in accordance with Minn. R. 7050.0222 and Minn. R. 7052.0100.*
2. *Values given are for total hardness of 100 mg/L only.*
3. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*
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 Agency will be performing a logarithmic average for this parameter using the instantaneous results submitted.*

Table G-3

Table G-3. Applicability of the Multi-Sector General Permit to Stormwater Runoff From Active Mining and Dressing Sites, Temporarily Inactive Sites, and Sites Undergoing Reclamation	
Discharge/Source of Discharge	**Note/Comment**
Piles	
Waste rock/overburden	If composed entirely of **stormwater** and not combining with mine drainage. See note below.
Topsoil	No additional comments
Roads constructed of waste rock or spent ore	
On-site haul roads	If composed entirely of **stormwater** and not combining with mine drainage. See note below.
Off-site haul and access roads	No additional comments
Roads not constructed of waste rock or spent ore	
On-site haul roads	Except if mine drainage is used for dust control
Off-site haul and access roads	No additional comments
Ore Processing/Plant Site	
Runoff from tailings dams and dikes when constructed of waste rock/tailings	Except if process fluids are present and only if composed entirely of **stormwater** and not combining with mine drainage. See note below.
Runoff from tailings dams/dikes when not constructed of waste rock and tailings	Except if process fluids are present
Concentration building	If **stormwater** only and no contact with piles

Table G-3. Applicability of the Multi-Sector General Permit to Stormwater Runoff From Active Mining and Dressing Sites, Temporarily Inactive Sites, and Sites Undergoing Reclamation	
Mill site/pellet plant	If **stormwater** only and no contact with piles
Ancillary areas	
Office and administrative building and housing	If mixed with **stormwater** from the industrial area
Chemical storage area	No additional comments
Docking facility	Except if excessive contact with waste product that would otherwise constitute mine drainage
Explosive storage	No additional comments
Fuel storage (oil tanks/coal piles)	No additional comments
Vehicle and equipment maintenance area/building	No additional comments
Parking areas	But coverage unnecessary if only employee and visitor-type parking
Power plant	
Truck wash area	Except when excessive contact with waste product that would otherwise constitute mine drainage
Reclamation-related areas	
Any disturbed area (unreclaimed)	Any disturbed area (unreclaimed)
Partially/inadequately reclaimed areas or areas not released from reclamation requirements	No additional comments

Note: **Stormwater** runoff from these sources is subject to the NPDES program for **stormwater** unless mixed with discharges subject to 40 CFR pt. 440 that are regulated by another permit prior to mixing. **Non-stormwater discharges** from these sources are subject to NPDES/SDS permitting and may be subject to the effluent limitation guidelines under 40 CFR pt. 440. Discharges from overburden/waste rock and overburden/waste rock-related areas are not subject to 40 CFR pt. 440 unless: (1) it drains naturally (or is intentionally diverted) to a point source; and (2) combines with “mine drainage” that is otherwise regulated under the Part 440 regulations. For such sources, coverage under this permit would be available if the discharge composed entirely of **stormwater** does not combine with other sources of mine drainage that are not subject to 40 CFR pt. 440, as well as meeting other eligibility criteria contained in Part I of the permit. Permit applicants bear the initial responsibility for determining the applicable technology-based standard for such discharges.

8. Use of I**nfiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

Sector G industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

9. Termination of Permit Coverage

A site or a portion of a site that has been released from applicable state or federal reclamation requirements on or after August 25, 1980, is no longer required to maintain coverage under this permit, provided that the covered **stormwater** discharges do not have the potential to cause or contribute to violations of state **water quality standards**.

H. Coal Mines and Coal Mining-Related Facilities

1. Authorized **Stormwater** Discharges

   The requirements in Sector H apply to **stormwater discharges associated with industrial activity** from coal mines and coal mining-related facilities as identified by the SIC codes specified under Sector H in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector H

   Permittees under Sector H are primarily engaged in the following types of activities:

   a. Haul roads (non-public roads on which coal or coal refuse is conveyed).

   b. Access roads (non-public roads providing light vehicular traffic within the **facility** property and to public roadways).

   c. Railroad spurs, siding, and internal haulage lines (rail lines used for hauling coal within the **facility** property and to off-site commercial railroad lines or loading areas).

   d. Conveyor belts, chutes, and aerial tramway haulage areas (areas under and around coal or refuse conveyer areas, including transfer stations).

   e. Equipment storage and maintenance yards, coal handling buildings and structures, and inactive coal mines and related areas (abandoned and other inactive mines, refuse disposal sites, and other mining-related areas).

3. Limitations on Authorization

   Discharges not authorized by this permit:

   a. Discharges from pollutant seeps or underground drainage from inactive coal mines and refuse disposal areas that do not result from precipitation events, and discharges from floor drains in maintenance buildings and other similar drains in mining and preparation plant areas.

   b. **Stormwater** discharges subject to an existing effluent limitation guideline at 40 CFR pt. 434.

4. Sector-Specific Definitions

   The following definitions do not supersede the definitions of active and inactive mining facilities established by 40 CFR 122.26(b)(14)(iii).

a. *Reclamation* - activities undertaken in compliance with applicable mined land reclamation requirements following cessation of the activities associated with extraction, removal, or recovery of coal intended to return the land to an appropriate post-mining land use in order to meet applicable Federal and State reclamation requirements.

b. *Active coal mining facility* - is a place where work or other activity related to the extraction, removal, or recovery of coal is being conducted. For surface mines, this definition does not include any land where grading has returned the earth to a desired contour and reclamation has begun. This definition is derived from the definition of "active mining area" found at 40 CFR pt. 440.132(a).

c. *Inactive metal mining facility* – a site or portion of a site where metal mining and/or milling occurred in the past but is not an active **facility** as defined above, and where the inactive portion is not covered by an active mining permit issued by the applicable State or Federal agency. An inactive metal mining facility has an identifiable **Owner**/**Operator**.

d. *Temporarily inactive metal mining facility* - a site or portion of a site where metal mining and/or milling occurred in the past but currently are not being actively undertaken, and the **facility** is covered by an active mining permit issued by the applicable State or Federal agency.

5. **Stormwater** Controls

a. Employee Training.

As part of the employee training program, the **Permittee** shall address the following activities: use of reused and recycled waters, solvents management, proper disposal of dyes, and proper disposal of petroleum products and spent lubricants.

b. Erosion and Sedimentation Controls.

Surface Mining Control and Reclamation Act (SMCRA) requirements regarding sediment and erosion control measures are primary requirements of the **SWPPP** for mining-related areas subject to SMCRA authority.

c. Good Housekeeping.

The **Permittee** shall use sweepers and covered storage, water haul roads to minimize dust generation, and conserve vegetation to minimize erosion.

d. Inspections.

1. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

2. For active mining-related areas and inactive areas under SMCRA Bond Authority, the **permittee** shall perform quarterly inspections, corresponding with the inspections performed by SMCRA inspectors, of all mining-related areas required by SMCRA. Also maintain the records of the SMCRA authority representative.

3. The **Permittee** shall perform inspections or other equivalent measures of storage tanks and pressure lines of fuels, lubricants, hydraulic fluid, and slurry to prevent leaks due to deterioration or faulty connections.

e. Preventive maintenance (*No additional requirements).*

f. Spills and Leaks (*No additional requirements).*

g. Management of runoff (*No additional requirements).*

h. Other Industry Specific **Stormwater** Control Measures (*No additional requirements).*

6. **SWPPP** Requirements

   In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

   a. **Facility** Map.

      The **Permittee** shall identify where any of the following may be exposed to **stormwater**:

      1. All applicable mining-related areas.

      2. Acidic spoil, refuse, or unreclaimed disturbed areas.

3. Liquid storage tanks containing pollutants such as caustics, hydraulic fluids, and lubricants.

b. Inventory of Exposed Materials (*No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following sources that have potential pollutants associated with them:

1. Truck traffic on haul roads and resulting generation of sediment subject to runoff and dust generation.

2. Fuel or other liquid storage.

3. Pressure lines containing slurry, hydraulic fluid, or other potential harmful liquids.

4. Loading or temporary storage of acidic refuse or spoil.

d. Description of **Stormwater** Controls.

Most active coal mining-related areas (SIC Codes 1221- 1241) are subject to sediment and erosion control regulations of the U.S. Office of Surface Mining (OSM) that enforces the Surface Mining Control and Reclamation Act (SMCRA). OSM has granted authority to most coal-producing states to implement SMCRA through State SMCRA regulations. All SMCRA requirements regarding control of **stormwater**-related pollutant discharges shall be addressed in the **SWPPP**.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Parts V, the **Permittee** shall monitor the applicable parameters in Table H-1, below:

Table H-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	**Parameter**	**Benchmark Values**
H1 Coal Mines and Related Areas	Solids, Total Suspended (TSS)	100 mg/L [1]
	Aluminum, Total (as Al)	0.75 mg/L
	Iron, Total (as Fe)	1.0 mg/L
	pH [2]	6.0-9.0 SU

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*
2. *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 Agency will be performing a logarithmic average for this parameter using the instantaneous results submitted.*
3.

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector H industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

I. Oil and Gas Extraction and Refining

1. Authorized **Stormwater** Discharges

   The requirements in Sector I apply to **stormwater discharges associated with industrial activity** from Oil and Gas Extraction facilities as identified by the **industrial activity** codes specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized By Sector I

   Permittees under Sector I are primarily engaged in the following types of activities:

   a. Production of crude petroleum and natural gas.

   b. Natural gas liquids.

   c. Oil and gas field exploration services.

   d. Drilling oil and gas wells.

   e. Petroleum refining.

3. Limitations on Authorization

   This permit does not authorize **stormwater** discharges from petroleum drilling operations that are subject to nationally established effluent limitation guidelines found at 40 CFR pt. 435, respectively.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Control *(No additional requirements)*.

   c. Good Housekeeping *(No additional requirements)*.

   d. Inspections.

      1. The **Permittee** shall inspect equipment and vehicles that store, mix (including all on- and offsite mixing tanks), or transport chemicals or hazardous materials (including those transporting supplies to oil field activities).

      2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur

during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance.

The **Permittee** shall describe and implement measures that prevent or minimize contamination of **stormwater** from chemical mixing areas, and take measures necessary to prevent discharges of **stormwater** that have contacted wastewater pollutants from any sources associated with production, field exploration, drilling, well completion, or well treatment (i.e. produced water, drilling muds, drill cuttings, and produced sand).

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify where any of the following may be exposed to **stormwater**:

1. Locations used for the treatment, storage, or disposal of wastes.

2. Chemical mixing areas.

3. Construction and drilling areas.

4. All areas subject to the effluent guidelines requirements for “No Discharge” in accordance with 40 CFR 435.32.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following sources that have pollution potential:

1. Chemical, cement, mud, or gel mixing activities.

2. Drilling or mining activities.

3. Equipment rehabilitation activities.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table I-1, below:

Table I-1

Sector-specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
I1 Oil and Gas Extraction	Solids, Total Suspended (TSS)	100 mg/L [2]
	pH [3]	6.0-9.0 SU
I2 Oil Refining	Solids, Total Suspended (TSS)	100 mg/L [2]
	Zinc, Total (as Zn)	0.234 mg/L [1]
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*
3. *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 Agency will be performing a logarithmic average for this parameter using the instantaneous results submitted.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector I industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

J. Mineral Mining and Dressing

1. Authorized **Stormwater** Discharges

   The requirements in Sector J apply to **stormwater discharges associated with industrial activity** from active, temporarily inactive and inactive mineral mining and dressing facilities, and mining sites undergoing reclamation as identified by the **industrial activity** codes specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector J

   Permittees under Sector J are primarily engaged in the following types of activities:

   a. Mining of minerals.

   b. Mineral dressing and non-metallic mineral services.

   c. Reclamation of mining sites.

3. Limitations on Authorization

   Discharges not authorized by this permit:

   1. Dewatering of mine or quarry areas (except for those facilities operating under SIC Code 1442 (Construction Sand and Gravel) or 1446 (Industrial Sand). **Facilities** operating under SIC Codes 1442 or 1446 are authorized under Part I.A.2.k to discharge non-**stormwater** from dewatering operations composed entirely of **stormwater** or uncontaminated groundwater seepage.

   2. Discharges from exploration sites and land disturbance activities to determine the financial viability of a site and construction of infrastructure prior to mineral extraction, including the building of site access roads and removal of overburden and waste rock to expose minerals and are not covered by an active mining permit issued by the applicable State or Federal agency. These discharges do not require an NPDES industrial **stormwater** permit. Discharges from these areas which disturb greater than one acre are covered by the General **Stormwater** Permit for **Construction Activity**.

      a. Closed mineral mining sites where disturbances associated with extraction, removal or recovery of minerals took place prior to September 30, 1992, and where extraction, removal or recovery activities have not taken place on or after September 30, 1992 are not considered either active or inactive mineral mining facilities and do not require an NPDES/SDS industrial **stormwater** permit.

b. Sites where mineral mining claims are being maintained prior to disturbances associated with extraction, removal, or recovery of minerals and sites where minimal activities are undertaken for the sole purpose of maintaining a mineral mining claim are not considered either active or inactive mining facilities and do not require an NPDES/SDS industrial **stormwater** permit.

4. Sector-Specific Definitions

The following definitions are not intended to supersede the definitions of active and inactive mining facilities established by 40 CFR 122.26(b)(14)(iii).

a. *Reclamation* – activities undertaken in compliance with applicable mined land reclamation requirements following the cessation of activities associated with extraction, removal and recovery of minerals, intended to return the land to an appropriate post-mining land use.

b. *Active Mineral Mining Facility* - a place where work or other activity related to the extraction, removal, or recovery of minerals is being conducted. For surface mines, this definition does not include any land where grading has returned the earth to desired contour and reclamation has begun. This definition is derived from the definition of "active mining area" found at 40 CFR pt. 440.132(a).

c. *Inactive Mineral Mining Facility* - a site or portion of a site where mineral mining and/or milling occurred in the past but is not an active **facility** as defined above, and where the inactive portion is not covered by an active mining permit issued by the applicable State or Federal agency. An inactive metal mining facility has an identifiable **Owner**/**Operator**.

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d. *Temporarily Inactive Mineral Mining Facility* - a site or portion of a site where mineral mining and/or milling occurred in the past but currently are not being actively undertaken, and the **facility** is covered by an active mining permit issued by the applicable State or Federal agency.

5. **Stormwater** Controls

a. Employee Training (*No additional requirements)*.

b. Erosion and Sedimentation Control.

The **Permittee** shall implement sediment control on all down-gradient perimeters before any up-gradient land disturbing activities begin. Use a range of erosion controls within the broad categories of: flow diversion (e.g. swales); stabilization (e.g. temporary or permanent seeding); and structural controls (e.g. sediment traps, dikes, silt fences). The timing of the installation of sediment control practices may be adjusted to accommodate short-term activities.

c. Good Housekeeping (*No additional requirements)*.

d. Inspections.

If a **facility** is inactive and unstaffed, the **Permittee** is waived from the requirement to conduct monthly **facility** inspections under Part III.F.1 and may conduct semi-annual inspections in accordance with Part III.F.2.

e. Preventive Maintenance (*No additional requirements)*.

f. Spills and Leaks (*No additional requirements)*.

g. Management of Runoff (*No additional requirements)*.

h. Other Industry Specific Control Measures (*No additional requirements)*.

6. **SWPPP** Requirements

The **SWPPP** requirements are applicable for active mineral mining facilities, inactive mining facilities, temporarily inactive mineral mining facilities, temporarily inactive mineral mining facilities, and sites undergoing reclamation. In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify the following locations:

1. Mining or milling site boundaries.

2. Access and haul roads.

3. Outline of the drainage areas of each **monitoring location** within the **facility** with indications of the types of discharges from the drainage areas.

4. Location(s) of all permitted discharges covered under an individual NPDES permit.

5. Outdoor equipment storage, fueling, and maintenance areas.

6. Materials handling areas.

7. Outdoor manufacturing, outdoor storage, and material disposal areas.

8. Outdoor chemicals and explosives storage areas.

9. Overburden, materials, soils, or waste storage areas.

10. Location of mine drainage dewatering or other process water.

11. Heap leach pads.

12. Off-site points of discharge for mine dewatering and process water.

13. **Surface waters**.

14. Boundary of tributary areas that are subject to effluent limitations guidelines.

15. Location(s) of reclaimed areas.

b. Inventory of Exposed Materials (*No additional requirements)*.

c. Potential Pollutant Sources.

1. For each area of the mine or mill site where **stormwater discharges associated with industrial activities** occur, the **Permittee** shall identify the types of pollutants (e.g. heavy metals, sediment) likely to be present in significant amounts. Evaluate the following factors in the identification of pollutants:

   a. The mineralogy of the waste rock (e.g. acid forming).

   b. Toxicity and quantity of chemicals used, produced, or discharged.

   c. The likelihood of contact with **stormwater.**

   d. Vegetation of site (if any).

   e. History of significant leaks or spills of toxic or hazardous pollutants. Also include a summary of any existing waste rock or overburden characterization data and test results for potential generation of acid rock.

2. The **Permittee** shall describe the mining and associated activities that can affect the **stormwater** discharges covered by this permit, including a general description of the location of the site relative to major transportation routes and communities**.**

d. Description of **Stormwater** Controls (*No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Parts V and VI, the **Permittee** shall monitor the applicable parameters in Table J-1, below:

Table J-1

Sector-Specific Benchmark Monitoring and Effluent Limitations.
Discharges may be subject to requirements for more than one sector or subsector

Subsector	Parameter	Benchmark Values	Effluent Limits
J1 Sand and Gravel Mining	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required
J2 Dimension, Crushed Stone, Nonmetallic Minerals	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required
J3 Clay, Ceramic, Refractory Materials, Chemical and Fertilizer Mineral Mining	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required
J4 Mine dewatering discharges at construction sand and gravel, or industrial sand mining facilities (SIC codes 1442 and 1446)	Solids, Total Suspended (TSS)	Benchmark Monitoring Not Required	Construction Sand and Gravel Mining Facilities: 25 mg/L calendar month average Industrial Sand Mining Facilities 45 mg/L daily maximum
	pH	Benchmark Monitoring Not Required	6.5 SU, instantaneous minimum 8.5 SU, instantaneous maximum

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector J industrial facilities are authorized to use **infiltration devices or industrial stormwater ponds** for **stormwater** management.

9. Termination of Permit Coverage

A site or a portion of a site that has been released from applicable county, state, or federal reclamation requirements after September 30, 1992, is no longer required to maintain coverage under this permit, provided that the covered **stormwater** discharges do not have the potential to cause or contribute to violations of state **water quality standards**. If the site or portion of a site reclaimed after September 30, 1992, was not subject to reclamation requirements, the site or portion of the site is no longer required to maintain coverage under this permit if the site or portion of the site has been reclaimed. A site or portion of a site is considered to have been reclaimed if:

a. Raw materials, intermediate byproducts, finished products, and waste products do not have the potential to cause or contribute pollutants to **stormwater** discharges.

b. The drainage ways that leave the site are stabilized to prevent erosion with riprap or other protective material.

c. The soil disturbing activities at the site are completed and all soils are stabilized by a uniform perennial vegetative cover with a density of 70 percent over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under erosive conditions.

d. The drainage ditches constructed to drain water from the site are stabilized to preclude erosion.

e. The temporary synthetic and structural erosion prevention and sediment control **BMPs** are removed.

f. The **Permittee** cleans out all sediment from conveyances and from temporary sedimentation basins that are to be used as permanent water quality management basins; sediment must be stabilized to prevent it from being washed back into the basin, conveyances or drainage-ways discharging off-site or to **surface waters**. The cleanout of permanent basins must be sufficient to return the basin to design capacity.

g. The **Permittee** installs permanent **stormwater** treatment for new **impervious surfaces** created as a result of the activities covered by this permit. The permanent **stormwater** treatment must be designed for 0.5 inches of runoff from all created **impervious surfaces**.

h. Other **BMPs** as necessary are implemented so as to prevent erosion from the site excavation areas and stockpiles that have been used by the **Permittee**.

K. Hazardous Waste Treatment, Storage, or Disposal Facilities

1. Authorized **Stormwater** Discharges

   The requirements in Sector K apply to **stormwater discharges associated with industrial activity** from hazardous waste treatment, storage, or disposal facilities (TSDFs) as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector K

   Permittees under Sector K are primarily engaged in treating, storing, or disposing of hazardous wastes, including those that are operating under interim status or a permit under Subtitle C of RCRA.

3. Limitations on Authorization

   The following discharges are not authorized by this permit:

   a. Hazardous waste landfill wastewaters, sanitary wastewater, contaminated groundwater, wastewater from recovery pumping wells, leachate, gas collection condensate, drained free liquids, contaminated ground water, laboratory-derived wastewater, and contact washwater from washing truck and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility.

   b. Contaminated **stormwater** from hazardous waste landfills is regulated pursuant to 40 CFR pt. 445, subp. A. These numeric limitations (effluent limitation guidelines) apply to contaminated **stormwater** discharges from hazardous waste landfills subject to the provisions of RCRA Subtitle C at 40 CFR pts. 264 (Subpart N) and 265 (Subpart N).

4. Sector-Specific Definitions

   a. *Contaminated **stormwater*** - as defined in 40 CFR pt. 445 (Landfills Point Source Category) is **stormwater** that comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in K.4.e of this Part. Some specific areas of a landfill that may produce contaminated **stormwater** include, but are not limited to, the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment, or machinery that has been in direct contact with the waste; and waste dumping areas.

   b. *Drained free liquids* - aqueous wastes drained from waste containers (e.g. drums) prior to landfilling.

c. *Land treatment facility* - a **facility** or part of a **facility** at which hazardous waste is applied onto or incorporated into the soil surface; such facilities are considered disposal facilities if the waste will remain after closure.

d. *Landfill* - an area of land or an excavation in which wastes are placed for permanent disposal, but that is not a land application or land treatment unit, surface impoundment, underground injection well, waste pile, salt dome formation, salt bed formation, underground mine, or cave as these terms are defined in 40 CFR 257.2, 258.2, and 260.10.

e. *Landfill wastewater* - as defined in 40 CFR pt. 445 (Landfills Point Source Category) all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated **stormwater**, contaminated groundwater, and wastewater from recovery pumping wells. Landfill wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated **stormwater**, and contact washwater from washing truck, equipment, and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility.

f. *Leachate* - liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste as defined in 40 CFR 257.

g. *Non-contaminated **stormwater*** - as defined in 40 CFR pt. 445 (Landfills Point Source Category) is **stormwater** that does not come into contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in K.4.e of this Part. Non-contaminated **stormwater** includes **stormwater** that flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.

h. *Pile* - any non-containerized accumulation of solid, nonflowing hazardous waste that is used for treatment or storage and that is not a containment building as defined in 40 CFR 260.10 .

i. *Surface impoundment* - a **facility** or part of a **facility** that is a natural topographic depression, human-made excavation, or diked area formed primarily of earthen materials (although it may be lined with man-made materials), that is designed to hold an accumulation of liquid wastes or wastes containing free liquids, and that is not an injection well. Examples of surface impoundments are holding storage, settling, and aeration pits, ponds, and lagoons as defined in 40 CFR pt. 257.

5. **Stormwater** Controls *(No Additional Requirements)*

6. **SWPPP** Requirements *(No Additional Requirements)*

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Parts V and VI, the **Permittee** shall monitor the applicable parameters in Table K-1, below:

Table K-1

Sector-Specific Benchmark Monitoring Values and Effluent Limitations.
Discharges may be subject to requirements for more than one sector or subsector.

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	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L	Effluent Monitoring Not Required
	COD (Chemical Oxygen Demand)	120 mg/L	Effluent Monitoring Not Required
	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L	Effluent Monitoring Not Required
	Lead, Total (as Pb)	0.164 mg/L [1]	Effluent Monitoring Not Required
	Arsenic, Total (as As)	0.680 mg/L	Effluent Monitoring Not Required
	Cadmium, Total (as Cd)	0.0078 mg/L [1]	Effluent Monitoring Not Required
	Zinc, Total (as Zn)	0.234 mg/L [1]	Effluent Monitoring Not Required
	Chromium, Total (as Cr)	3.5 mg/L [1]	Effluent Monitoring Not Required
	pH	6.0-9.0 SU [4]	Effluent Monitoring Not

Subsector	Parameter	Benchmark Values	Effluent Limits
			Required
	Cyanide, Total (as CN)	0.045 mg/L	Effluent Monitoring Not Required
	Selenium, Total (as Se)	0.040 mg/L	Effluent Monitoring Not Required
	Silver, Total (as Ag)	0.0041 mg/L [1]	Effluent Monitoring Not Required
K2[3] Discharges From Hazardous Waste Landfills Subject To Effluent Limitations In 40 CFR Part 445 Subpart A	Solids, Total Suspended (TSS)	Benchmark Monitoring Not Required	88 mg/L daily maximum
			27 mg/L calendar month average
	Nitrogen, Ammonia, Total (as N)	Benchmark Monitoring Not Required	10 mg/L daily maximum
			4.9 mg/L calendar month average
	BOD, Carbonaceous 05 Day (20 Deg C)	Benchmark Monitoring Not Required	220 mg/L daily maximum
			56 mg/L calendar month average
	Arsenic, Total (as As)	Benchmark Monitoring Not Required	1.1 mg/L daily maximum
			0.54 mg/L calendar month average
	Phenol	Benchmark Monitoring Not Required	0.048 mg/L daily maximum
			0.029 mg/L calendar month average
	Zinc, Total (as Zn)	Benchmark Monitoring Not Required	0.535 mg/L daily maximum
			0.296 mg/L calendar month average
	Chromium, Total (as Cr)	Benchmark Monitoring Not Required	1.1 mg/L daily maximum
			0.46 mg/L calendar month

Subsector	Parameter	Benchmark Values	Effluent Limits
			average
	pH	Benchmark Monitoring Not Required	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum
	Alpha-Terpineol	Benchmark Monitoring Not Required	0.042 mg/L daily maximum
			0.019 mg/L calendar month average
	Aniline	Benchmark Monitoring Not Required	0.024 mg/L daily maximum
			0.015 mg/L calendar month average
	Benzoic Acid	Benchmark Monitoring Not Required	0.119 mg/L daily maximum
			0.073 mg/L calendar month average
	Naphthalene	Benchmark Monitoring Not Required	0.059 mg/L daily maximum
			0.022 mg/L calendar month average
	p-Cresol	Benchmark Monitoring Not Required	0.024 mg/L daily maximum
			0.015 mg/L calendar month average
	Pyridine	Benchmark Monitoring Not Required	0.072 mg/L daily maximum
			0.025 mg/L calendar month average

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

3. *As set forth at 40 CFR Part 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 Parts 264 (Subpart N) and 265 (Subpart 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 Part 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.*
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 Agency will be performing a logarithmic average for this parameter using the instantaneous results submitted.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   a. **Industrial Stormwater Ponds**

      1. The **Permittee** of a sector K industrial **facility** not operating as a Solid Waste Management Unit (SWMU) with outdoor storage is authorized to use **industrial stormwater ponds** for **stormwater** management without additional restrictions.

      2. The **Permittee** of a sector K industrial **facility** operating as a SWMU with outdoor storage is authorized to use **industrial stormwater ponds** for **stormwater** management provided that any **industrial stormwater pond** constructed after the **effective date** of this permit meets the following design criteria. Any **Permittee** required to comply with this part is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

a. The **industrial stormwater pond** must be lined with a synthetic liner that is chemically compatible with materials expected to enter the pond, must be Ultra Violet (UV) stable, and must be designed to restrict infiltration to less than 500 gallons per acre per day.

b. The **industrial stormwater pond** must be designed in accordance with accepted engineering practices. (See **Agency** "Recommended Pond Design Criteria" December 2009, Document number: wq-wwtp5-53 and any applicable supporting technical criteria)

b. **Infiltration Devices**

1. The **Permittee** of a sector K industrial **facility** not operating as a SWMU with outdoor storage is authorized to use a designed **infiltration device** for industrial **stormwater** management and is not required to comply with Part VII.K.8.b.2, below.

2. The **Permittee** of a sector K industrial **facility** operating as a SWMU with outdoor storage is authorized to use a designed **infiltration device**, implemented prior to the **effective date** of this permit, for **stormwater** management provided the **Permittee** complies with the following requirements:

   a. The **Permittee** shall conduct benchmark monitoring in accordance with the terms and conditions of Part V of all industrial **stormwater** prior to infiltration. However, any **Permittee** required to comply with this part that is using a designed **infiltration device** to manage industrial **stormwater** is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

   b. If the **Permittee** has a designed **infiltration device** operating prior to the **effective date** of this permit, the **Permittee** is authorized to continue using that device. However, on or after the **effective date** of this permit, the **Permittee** is not authorized to construct new **infiltration devices,** expand infiltration activities or practices that result in infiltration, or expand volume of infiltration.

L. Landfills and Land Application Sites

1. Authorized **Stormwater** Discharges

   The requirements in Sector L apply to **stormwater discharges associated with industrial activity** from landfills and land application sites as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector L

   Permittees under Sector L are primarily engaged in the following types of activities:

   a. Waste disposal at landfills.

   b. Land application sites.

   c. Sites subject to regulation under Subtitle D of RCRA.

3. Limitations on Authorization

   The following discharges are not authorized by this permit:

   a. Leachate.

   b. Gas collection condensate.

   c. Drained free liquids.

   d. Contaminated and non-contaminated groundwater.

   e. Wastewater from recovery wells.

   f. Sanitary wastewater.

   g. Laboratory wastewater.

   h. Contact washwater from washing truck and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility.

4. Sector-Specific Definitions

   a. *Contaminated* ***stormwater*** - **stormwater** that comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in 4.c of this Part. Some specific areas of a landfill that may produce contaminated **stormwater** include, but are not limited to, the open face of an active landfill with exposed waste (no cover added); the areas around wastewater

treatment operations; trucks, equipment, or machinery that has been in direct contact with the waste; and waste dumping areas.

b. *Drained free liquids* - aqueous wastes drained from waste containers (e.g. drums) prior to landfilling.

c. *Landfill wastewater* - all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated **stormwater**, contaminated groundwater, and wastewater from recovery pumping wells. Landfill process wastewater includes, but is not limited to, leachate; gas collection condensate; drained free liquids; laboratory-derived wastewater; contaminated **stormwater**; and contact washwater from washing truck, equipment, and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility.

d. *Leachate* - liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste.

e. *Non-contaminated **stormwater*** - **stormwater** that does not come in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined in 4.c of this Part. Non-contaminated **stormwater** includes **stormwater** that flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill.

5. **Stormwater** Controls

a. Employee Training *(No additional requirements)*.

b. Erosion and Sedimentation Control.

The **Permittee** shall implement sediment control practices on all down-gradient perimeters before any up-gradient land disturbing activities begin. These practices shall remain in place until final stabilization has occurred. The **Permittee** shall provide temporary stabilization (e.g. temporary seeding, mulching, and placing geotextiles on the inactive portions of stockpiles) for the following:

1. Materials stockpiled for daily, intermediate, and final cover.

2. Inactive areas of the landfill.

3. Landfills areas that have final cover but where vegetation has yet to be established.

4. Land application sites where waste application has been completed but final vegetation has not yet been established.

c. Good Housekeeping.

The **Permittee** shall provide protected storage areas for pesticides, herbicides, and fertilizers.

d. Inspections.

The **Permittee** shall ensure the following areas are inspected while conducting inspections as required by Part III.F, of the permit.

1. Areas of landfills that have not yet been finally stabilized.

2. Active land application areas, areas used for storage of material and wastes that are exposed to precipitation, stabilization, and structural control measures.

3. Leachate collection and treatment systems.

4. Locations where equipment and waste trucks enter and exit the site.

5. Inactive landfills for stabilization and structural erosion control measures, leachate collection and treatment systems, and all closed land application areas.

e. Preventive Maintenance Program.

The **Permittee** shall maintain the following:

1. All containers used for outdoor chemical and **significant materials** storage.

2. All elements of leachate collection and treatment systems, to prevent commingling of leachate with **stormwater**.

3. The integrity and effectiveness of any intermediate or final cover (including repairing the cover as necessary), to minimize the effects of settlement, sinking, and erosion.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific **Stormwater** Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV of the permit, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify where any of the following may be exposed to **stormwater**:

1. Active and closed landfill cells or trenches.

2. Active and closed land application areas.

3. Locations where open dumping is occurring or has occurred.

4. Locations of any known leachate springs or other areas where uncontrolled leachate may commingle with runoff.

5. Leachate collection and handling systems.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following sources that have potential pollutants associated with them:

1. Fertilizer, herbicide, and pesticide application.

2. Earth and soil moving.

3. Waste hauling and loading or unloading.

4. Daily, interim, and final cover material stockpiles as well as temporary waste storage areas.

5. Exposure of active and inactive landfill and land application areas.

6. Uncontrolled leachate flows.

7. Failure or leaks from leachate collection and treatment systems.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Parts V and VI, the **Permittee** shall monitor the applicable parameters in Table L-1, below:

Table L-1

Sector-Specific Benchmark Monitoring Values and Effluent Limitations.
Discharges may be subject to requirements for more than one sector or subsector.

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 [2]	Effluent Monitoring Not Required
L2 Any Open Or Closed Non-Hazardous Waste Landfills And Land Application Sites, Which Do Not Discharge To **Surface Water(s)**, **Stormwater** That Has Directly Contacted Solid Waste.	Solids, Total Suspended (TSS)	100 mg/L [2]	Effluent Monitoring Not Required
	Iron, Total (as Fe)	1.0 mg/L	Effluent Monitoring Not Required
L3 [3] Any Landfill That Discharges To **Surface Water**(s), **Stormwater** 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 daily maximum
			37 mg/L calendar month average
	Solids, Total Suspended (TSS)	100 mg/L [2]	88 mg/L daily maximum
			27 mg/L calendar month average
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L	10 mg/L daily maximum
			4.9 mg/L calendar month average
	Alpha-Terpineol	Benchmark Monitoring Not Required	0.033 mg/L daily maximum
			0.016 mg/L calendar month average

Subsector	Parameter	Benchmark Values	Effluent Limits
	Benzoic acid	Benchmark Monitoring Not Required	0.12 mg/L daily maximum
			0.071 mg/L calendar month average
	P-Cresol	Benchmark Monitoring Not Required	0.025 mg/L daily maximum
			0.014 mg/L calendar month average
	Phenol	Benchmark Monitoring Not Required	0.026 mg/L daily maximum
			0.015 mg/L calendar month average
	Zinc, Total (as Zn)	0.234 mg/L [1]	0.20 mg/L daily maximum
			0.11 mg/L calendar month average
	pH	6.0-9.0 SU [4]	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*
3. *As set forth at 40 CFR Part 445 Subpart B, these numeric limitations apply to contaminated stormwater discharges from MSWLFs that have not been closed in accordance with 40 CFR 258.60, and to contaminated stormwater discharges from those landfills that are subject to the provisions of 40 CFR Part 257 except for discharges from 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 CWT facilities subject to 40 CFR Part 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.

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 Agency will be performing a logarithmic average for this parameter using the instantaneous results submitted.

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

Sector L industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

M. Automobile Salvage Yards

1. Authorized **Stormwater** Discharges

   The requirements in Sector M apply to **stormwater discharges associated with industrial activity** from automobile salvage yards as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector M

   Permittees under Sector M are primarily engaged in the dismantling or wrecking of used motor vehicles for parts recycling or resale and scrap.

3. Limitations on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training.

      The **Permittee** shall address the following areas in the employee training program: proper handling (collection, storage, and disposal) of fuels, oil, used mineral spirits, antifreeze, mercury switches, refrigerants, and solvents.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping.

      To the maximum extent feasible, the **Permittee** shall:

      1. Store all batteries indoors.

      2. Recycle lead battery cable ends and wheel balancing weights.

      3. Remove all fluids from vehicles and recycle or dispose of accordingly.

      4. Remove and segregate mercury switches and mercury containing devices.

      5. Recycle fuels.

      6. Remove and dispose of refrigerants as required with complete avoidance of venting to atmosphere.

      7. Remove and dispose of glycols as required.

8. Remove and recycle all lead parts.

9. Separate and recycle plastics if feasible, or dispose as solid waste.

10. Store all engines and transmissions (that have been removed from vehicles) in covered areas not exposed to precipitation.

d. Inspections.

1. The **Permittee** shall immediately inspect vehicles arriving at the **facility**. The **Permittee** shall inspect the following for signs of leakage; all equipment containing oily parts, hydraulic fluids, any other types of fluids, and mercury switches. Also inspect all vessels and areas where hazardous materials and general automotive fluids are stored, including, but not limited to, mercury switches, brake fluid, transmission fluid, fuels and oils, refrigerants, and antifreeze.

2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance *(No additional requirements)*.

f. Spills and Leaks.

   The **Permittee** shall drain vehicles of all fluids before storage in the **facility** yard or before vehicles are crushed. If vehicles arrive at the **facility** with leaks, the **Permittee** shall either eliminate or contain the leak immediately to prevent **stormwater** contamination.

g. Management of Runoff *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall indicate the location of the following areas:

1. Dismantling areas.

2. Motor vehicle part storage areas (e.g. engine blocks, transmissions, radiators, tires, batteries, etc).

3. Vehicle part maintenance areas.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall assess the potential for the following to contribute pollutants to **stormwater** discharges:

1. Vehicle storage areas.

2. Dismantling areas.

3. Parts storage areas (e.g. engine blocks, tires, transmissions, batteries).

4. Fueling stations.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table M-1, below:

Table M-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
M1 Automobile Salvage Yards	Solids, Total Suspended (TSS)	100 mg/L [2]
	Aluminum, Total (as Al)	1.5 mg/L
	Iron, Total (as Fe)	1.0 mg/L
	Lead, Total (as Pb)	0.164 mg/L [1]
	Benzene	9.0 mg/L
	Toluene	3.7 mg/L
	Ethyl benzene	2.7 mg/L
	Xylene	2.8 mg/L

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   a. **Industrial Stormwater Ponds**

      1. The **Permittee** of a sector M industrial **facility** is authorized to use **industrial stormwater ponds** for **stormwater** management provided that any **industrial stormwater pond** constructed after the **effective date** of this permit meets the following design criteria. Any **Permittee** required to comply with this part is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

         a. Th**e industrial stormwater pond** must be lined with a synthetic liner that is chemically compatible with materials expected to enter the pond, must be Ultra Violet (UV) stable, and must be designed to restrict infiltration to less than 500 gallons per acre per day.

         b. **The industrial stormwater pond** must be designed in accordance with accepted engineering practices. (See MPCA "Recommended Pond Design Criteria" December 2009, Document number: wq-wwtp5-53 and any applicable supporting technical criteria)

b. **Infiltration Devices**

1. The **Permittee** of a sector M industrial **facility** is authorized to use a designed **infiltration device**, implemented prior to the **effective date** of this permit, for **stormwater** management provided the **Permittee** complies with the following requirements:

   a. The **Permittee** shall conduct benchmark monitoring in accordance with the terms and conditions of Part V of all industrial **stormwater** prior to infiltration. However, any **Permittee** required to comply with this part that is using a designed **infiltration device** to manage industrial **stormwater** is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

   b. If the **Permittee** has a designed **infiltration device** operating prior to the **effective date** of this permit, the **Permittee** is authorized to continue using that device. However, on or after the **effective date** of this permit, the **Permittee** is not authorized to construct new **infiltration devices,** expand infiltration activities or practices that result in infiltration, or expand volume of infiltration.

9. Mercury Minimization Plan

a. All vehicle recyclers and vehicle scrap processors shall remove and manage and recycle mercury containing convenience lighting switch assemblies, mercury containing ABS switch assemblies, and mercury containing air bag sensor switch assemblies found in some vehicles manufactured before model year 2002. Under Minn. Stat. 116.92, subd. 4(c), “A person may not crush a motor vehicle unless the person has first made a good faith effort to remove all of the mercury switches in the motor vehicle.”

b. In addition, the **Permittee** shall also evaluate the **facility** to identify any additional sources of mercury that may be introduced to, or used at, the **facility**. This includes, but is not limited to, mercury containing devices such as float switches; tilt switches; manometers; barometers; batteries; flame sensors (diostats); hydrometers; medical devices; lamps; mercury compounds; pyrometers; displacement relays; wetted reed relays; thermometers; pressure gauges; thermostats; etc. The plan shall describe how the **Permittee** is removing mercury containing devices, segregating mercury containing devices to avoid spills and contact with **stormwater**, and the methods used for recycling any mercury generated at the **facility** (including the specific recycling program used). All mercury and mercury-containing devices must be removed and recycled in accordance with Minn. Stat. §§ 115A.932 and 116.92 and in accordance with state and federal Universal Waste Rules and other applicable water, air, and waste regulations.

N. Scrap Recycling and Waste Recycling Facilities

1. Authorized **Stormwater** Discharges

   The requirements in Sector N apply to **stormwater discharges associated with industrial activity** from scrap recycling and waste recycling facilities, as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector N

   Permittees under Sector N are primarily engaged in the following types of activities:

   a. Processing, reclaiming, and wholesale distribution of scrap and waste materials, such as ferrous and nonferrous metals, paper, plastic, cardboard, glass, and animal hides.

   b. Reclaiming and recycling of liquid wastes, such as used oil, antifreeze, mineral spirits, and industrial solvents.

3. Limitation on Authorization

   Non-stormwater discharges from ferrous and non-ferrous metal turnings containment areas are not authorized by this permit.

4. Sector -Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping.

      The **Permittee** shall minimize exposure of recyclables to precipitation and runoff and use good housekeeping measures to prevent accumulation of particulate matter and fluids, particularly in high traffic areas.

   d. Inspections.

      1. The **Permittee** shall minimize acceptance of materials that may be significant sources of pollutants by conducting inspections of the in-bound materials.

      2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt.

Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance *(No additional requirements)*.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff.

The **Permittee** shall minimize;

1. Contact of **stormwater** runoff with stockpiled scrap materials, processed materials, storage of materials and non-recyclable wastes.

2. Contact of surface runoff with stockpiles of turnings exposed to cutting fluids by:

   a. Storing all turnings exposed to cutting fluids under some form of permanent or semi-permanent cover.

   b. Establishing dedicated containment areas for all turnings that have been exposed to cutting fluids. **Stormwater** runoff from these areas can be discharged, provided that any runoff is first collected and treated by an oil and water separator or its equivalent. The **Permittee** shall regularly maintain the oil and water separator (or its equivalent) and properly dispose of or recycle collected residual fluids.

3. Contact of **stormwater** with residual liquids, particulate matter, and waste materials that are stored either outdoors or under cover.

4. Surface runoff from coming in contact with scrap processing equipment, including operations that generate visible particulate residue (e.g. shredding).

5. Pollutants in discharges from truck and rail car loading and unloading areas, and must include measures to clean up spills and leaks resulting from the transfer of liquid wastes.

h. Other Industry Specific **Stormwater** Control Measures.

1. The **Permittee** shall notify major suppliers about which scrap materials will not be accepted at the **facility** or will be accepted only under certain conditions.

2. The **Permittee** shall properly handle, store, and manage scrap lead-acid batteries.

6. **SWPPP** Requirements

The **SWPPP** may refer to applicable portions of other existing plans, such as SPCC plans required under 40 CFR pt. 112. In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify the locations of any of the following activities or sources that may be exposed to **stormwater**:

1. Outdoor scrap and waste processing equipment.

2. Containment areas for turnings exposed to cutting fluids.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources *(No additional requirements)*.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table N-1, below:

Table N-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
N1 Scrap Recycling Facilities	Solids, Total Suspended (TSS)	100 mg/L [2]
	COD (Chemical Oxygen Demand)	120 mg/L
	Aluminum, Total (as Al)	0.75 mg/L
	Copper, Total (as Cu)	0.028 mg/L [1]
	Iron, Total (as Fe)	1.0 mg/L
	Lead, Total (as Pb)	0.164 mg/L [1]
	Zinc, Total (as Zn)	0.234 mg/L [1]
	pH [3]	6.0-9.0 SU

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*
3. *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 Agency will be performing a logarithmic average for this parameter using the instantaneous results submitted.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   a. **Industrial Stormwater Ponds**

      1. The **Permittee** of a sector N industrial **facility** is authorized to use **industrial stormwater ponds** for **stormwater** management provided that any **industrial stormwater pond** constructed after the **effective date** of this permit meets the following design criteria. Any **Permittee** required to comply with this part is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

         a. The **industrial stormwater pond** must be lined with a synthetic liner that is chemically compatible with materials expected to enter the pond, must be Ultra Violet (UV) stable, and must be designed to restrict infiltration to less than 500 gallons per acre per day.

b. **The industrial stormwater pond** must be designed in accordance with accepted engineering practices. (See **Agency** "Recommended Pond Design Criteria" December 2009, Document number: wq-wwtp5-53 and any applicable supporting technical criteria)

b. **Infiltration Devices**

1. The **Permittee** of a sector N industrial **facility** is authorized to use a designed **infiltration device**, implemented prior to the **effective date** of this permit, for **stormwater** management provided the **Permittee** complies with the following requirements:

a. The **Permittee** shall conduct benchmark monitoring in accordance with the terms and conditions of Part V of all industrial **stormwater** prior to infiltration. However, any **Permittee** required to comply with this part that is using a designed **infiltration device** to manage industrial **stormwater** is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

b. If the **Permittee** has a designed **infiltration device** operating prior to the **effective date** of this permit, the **Permittee** is authorized to continue using that device. However, on or after the **effective date** of this permit, the **Permittee** is not authorized to construct new **infiltration devices,** expand infiltration activities or practices that result in infiltration, or expand volume of infiltration.

9. Mercury Minimization Plan

a. All vehicle recyclers and vehicle scrap processors shall remove and manage and recycle mercury containing convenience lighting switch assemblies, mercury containing ABS switch assemblies, and mercury containing air bag sensor switch assemblies found in some vehicles manufactured before model year 2002. Under Minn. Stat. 116.92, Subd 4(c), "A person may not crush a motor vehicle unless the person has first made a good faith effort to remove all of the mercury switches in the motor vehicle."

b. In addition, the **Permittee** shall also evaluate the **facility** to identify any additional sources of mercury that may be introduced to, or used at, the **facility**. This may include but is not limited to mercury containing devices such as float switches, tilt switches, manometers, barometers, batteries, flame sensors (diostats), hydrometers, medical devices, lamps, mercury compounds, pyrometers, displacement relays, wetted reed relays, thermometers, pressure gauges, thermostats, etc. The plan shall describe how the **Permittee** is removing mercury containing devices, segregating mercury containing devices to avoid spills and contact with **stormwater**, and the methods used for recycling any mercury

generated at the facility (including the specific recycling program used). All mercury and mercury-containing devices must be removed and recycled in accordance with Minn. Stat. §§ 115A.932 and 116.92 and in accordance with state and federal Universal Waste Rules and other applicable water, air, and waste regulations.

O. Steam Electric Generating Facilities

1. Authorized **Stormwater** Discharges

   The requirements in Sector O apply to **stormwater discharges associated with industrial activity** from steam electric power generating facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector O

   Permittees under Sector O are primarily engaged in the following types of activities:

   a. Steam electric power generation.

   b. Dual fuel co-generation facilities producing steam.

3. Limitations on Authorization

   The following discharges are not authorized by this permit:

   a. **Non-stormwater discharges** subject to effluent limitations guidelines.

   b. **Stormwater** discharges from ancillary facilities (e.g. gas turbine stations and substations) that are not contiguous to a steam electric power generating facility and heat capture co-generation facilities.

   c. Coal pile runoff wastewater. Coal pile runoff wastewater shall be collected and treated separate from other collected **stormwater** runoff. Discharge of coal pile runoff wastewater is authorized and permitted under an individual NPDES/SDS permit for the **facility** which includes effluent limitations for this discharge.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping.

      The **Permittee** shall describe and implement procedures to reduce or control the tracking of ash and residue from ash loading areas. The **Permittee** shall describe and implement housekeeping procedures, such as, dust suppression, containment, or clearing loading areas, floors and roadways of ash and excess water.

d. Inspections.

1. The **Permittee** shall inspect the following areas:

   a. Coal handling areas.

   b. Switchyards.

   c. Ash handling areas.

   d. Areas adjacent to disposal ponds and landfills.

2. The **Permittee** shall inspect all residue-hauling (e.g. ash) vehicles for proper covering over the load, adequate gate sealing, and overall integrity of the container body. Repair, as soon as practicable, vehicles without load covering or adequate gate sealing, or with leaking containers or beds.

3. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance.

1. The **Permittee** shall describe and implement measures that prevent or minimize **stormwater** from contacting fugitive dust emissions from coal handling areas.

2. The **Permittee** shall describe and implement measures that prevent or minimize contamination of **stormwater** runoff from delivery vehicles carrying **significant materials** arriving at the **facility**. The **Permittee** shall have procedures ensuring overall integrity of the body or container and procedures to deal with leakage or spillage from vehicles or containers.

3. The **Permittee** shall describe and implement measures that prevent or minimize contamination of surface runoff from oil-bearing equipment in switchyard areas. Use level grades and gravel surfaces to retard flows and

limit the spread of spills from oil-bearing equipment in switchyards, or collect runoff in perimeter ditches from these areas.

f. Spills and Leaks.

The **Permittee** shall describe and implement measures to reduce the potential for an oil or chemical spill, or reference the appropriate part of the **facility** SPCC plan. Visually inspect the structural integrity of all above-ground tanks, pipelines, pumps, and related equipment, and conduct any necessary repairs, pursuant to Minnesota tanks program requirements.

g. Management of Runoff.

The **Permittee** shall describe and implement measures that prevent or minimize contamination of surface runoff from areas adjacent to disposal ponds or landfills. Develop procedures to reduce ash residue that may be tracked on to access roads traveled by residue handling vehicles, and reduce ash residue on exit roads leading into and out of residue handling areas.

h. Other Industry Specific **Stormwater** Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify the locations of any of the following activities or sources that may be exposed to **stormwater**:

1. Scrap yards and general refuse areas.

2. Short- and long-term storage of construction materials, paint equipment, oils, fuels, used and unused solvents, cleaning materials, paint, water treatment chemicals, fertilizer, and pesticides.

3. Landfills and construction sites.

4. Stockpile areas (e.g. coal, ash or limestone piles).

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutants *(No additional requirements)*.

d. Description of **Stormwater** Controls *(No additional requirements).*

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V and VI, the **Permittee** shall monitor the applicable parameters in Table O-1, below:

Table O-1

Sector-Specific Benchmark Monitoring Values and Effluent Limitations. Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values	Effluent Limits
O1 Coal Fired and Oil Fired Steam Electric Generating Facilities	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required
	Iron, Total (as Fe)	1.0 mg/L	Effluent Monitoring Not Required
O2 Nuclear, Natural Gas Fired, And Any Other Fuel Source Used For Steam Electric Generation	Solids, Total Suspended (TSS)	100 mg/L [1]	Effluent Monitoring Not Required
O3 Runoff From Coal Storage Piles At Steam Electric Generating Facilities	Solids, Total Suspended (TSS)	Benchmark Monitoring Not Required	50 mg/L daily maximum [2]
	pH	Benchmark Monitoring Not Required	6.0 SU, instantaneous minimum 9.0 SU, instantaneous maximum

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*
2. *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. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector O industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

P. Land Transportation and Warehousing

1. Authorized **Stormwater** Discharges

   The requirements in Sector P apply to **stormwater discharges associated with industrial activity** from land transportation and warehousing facilities as identified by the **industrial activity** codes in Major Groups 40, 41, 42, 43 and SIC 5171, and specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector P

   Permittees under Sector P are primarily engaged in the following types of activities:

   a. Vehicle and equipment fluid changes.

   b. Mechanical repairs.

   c. Parts cleaning.

   d. Sanding, refinishing and painting.

   e. Fueling and lubrication.

   f. Locomotive sanding (loading sand for traction).

   g. Storage of vehicles and equipment awaiting repair or maintenance.

   h. Storage of materials and waste materials, such as oil, fuel, batteries, tires, or oil filters.

   i. Equipment cleaning operations.

   j. Farm product warehousing and storage.

   k. Refrigerated warehousing and storage.

   l. General warehousing and storage.

3. Limitation on Authorization

   a. Only those portions of a land transportation **facility** that are involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or deicing operations are regulated as **industrial activity** under this permit. If other portions of the **facility** include **industrial activities** that are described at 40 CFR 122.26(b)(14)(i-ix and

xi), those **industrial activities** are also regulated under this permit, and the appropriate sector requirements for such activities apply.

b. The limitation in 3.a. above does not apply to warehousing and storage. All portions of a **facility** conducting warehousing and storage operations are regulated under this permit, as long as the **industrial activity** is described in 40 CFR 122.26(b)(14)(xi) regarding SIC codes 4221-4225 for warehousing and storage.

c. This permit does not authorize the discharge of vehicle/equipment/surface washwater, including tank cleaning operations. Such discharges must be authorized under a separate NPDES/SDS permit, discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements, or recycled on site.

4. Sector-Specific Definitions (*No Additional Definitions)*

5. **Stormwater** Controls

a. Employee Training.

When conducting employee training, the **Permittee** shall include:

1. Proper management and disposal of used oil and spent solvent management.

2. Fueling procedures.

3. Proper painting procedures.

4. Used battery management.

b. Erosion and Sedimentation Controls *(No additional requirements).*

c. Good Housekeeping.

The **Permittee** shall minimize or prevent **stormwater** from contacting locomotive sanding (loading sand for traction) areas. Sediment removal practices shall be implemented to minimize the offsite transport of sanding material.

d. Inspections.

1. The **Permittee** shall inspect the following areas/activities:

a. Storage areas for vehicles/equipment awaiting maintenance.

b. Fueling areas.

c. Indoor and outdoor vehicle/equipment maintenance areas.

d. Vehicle/equipment cleaning areas.

2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance.

   The **Permittee** shall maintain all material storage vessels (e.g. used oil/oil filters, spent solvents, paint wastes, hydraulic fluids) to prevent contamination of **stormwater,** and plainly label the storage vessels.

f. Spills and Leaks.

   The **Permittee** shall confine the storage of leaky or leak prone vehicles/equipment awaiting maintenance to designated areas.

g. Other Industry Specific **Stormwater** Controls.

   All petroleum bulk oil stations and terminals shall comply with applicable State and Federal laws regulating large bulk fuel storage tanks, including the SPCC and provisions for secondary containment. Above ground storage tanks with a capacity larger than 1.0 million gallons are regulated by permits negotiated with the **Agency**. Follow all rules and requirements pursuant to Minn. R. 7151.1200 concerning above ground storage tanks, and Minn. R. 7150 regarding underground storage tanks.

6. **SWPPP** Requirements

   In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify the following areas of the **facility** and indicate whether activities occurring there may be exposed to **stormwater**:

1. Fueling stations.

2. Vehicle/equipment maintenance or cleaning areas.

3. Storage areas for vehicle/equipment with actual or potential fluid leaks.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe and assess the potential for the following **facility** activities and areas to contribute pollutants to **stormwater** discharges:

1. On-site waste storage or disposal.

2. Dirt/gravel parking areas for vehicles awaiting maintenance.

3. Fueling areas.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table P-1, below:

Table P-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsectors	Parameter	Benchmark Values
P1 Rail Transportation Facilities	Solids, Total Suspended (TSS)	100 mg/L [1]
P2 Petroleum Bulk Oil Stations and Terminals	Solids, Total Suspended (TSS)	100 mg/L [1]
P3 Motor Vehicle Facilities	Solids, Total Suspended (TSS)	100 mg/L [1]
P4 [2] Warehousing and Storage: General Warehousing, Farm Product Warehousing, Refrigerated Warehousing	Solids, Total Suspended (TSS)	100 mg/L [1]

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*
2. *SIC codes 4221-4225 are not limited by vehicle/equipment maintenance*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector P industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

Q. Water Transportation

1. Authorized **Stormwater** Discharges

   The requirements in Sector Q apply to **stormwater discharges associated with industrial activity** from water transportation facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector Q

   Permittees under Sector Q are primarily engaged in water transportation facilities and activities classified in SIC Code Major Group 44 that have vehicle (vessel) maintenance shops and/or equipment cleaning operations, including:

   a. Water transportation industry, including facilities engaged in foreign or domestic transport of freight or passengers in deep sea or inland waters.

   b. Marine cargo handling operations.

   c. Ferry operations.

   d. Towing and tugboat services.

   e. Marinas.

3. Limitations on Authorization

   The following discharges are not authorized by this permit:

   a. Bilge and ballast water.

   b. Sanitary wastes.

   c. Pressure wash water.

   d. Cooling water originating from vessels.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training.

      The **Permittee** shall, as part of the employee training program, address the following activities:

1. Used oil management.

2. Spent solvent management.

3. Disposal of spent abrasives.

4. Fueling procedures.

5. Painting and blasting procedures.

6. Used battery management.

b. Erosion and Sedimentation Controls *(No additional requirements)*.

c. Good Housekeeping.

1. The **Permittee** shall implement and describe a schedule for routine yard maintenance and cleanup. Regularly remove from the general yard area scrap metal, wood, plastic, miscellaneous trash, paper, glass, industrial scrap, insulation, welding rods, and packaging.

2. The **Permittee** shall describe procedures for routinely maintaining and cleaning the drydock area to prevent or minimize pollutants in **stormwater** runoff. Address the cleaning of accessible areas of the drydock prior to flooding and following removal of the vessel and raising the dock. Include procedures for cleaning up oil, grease, and fuel spills occurring on the drydock.

3. The **Permittee** shall regularly clean deposits of abrasive blasting debris and paint chips.

d. Inspections.

1. The **Permittee** shall inspect the following areas:

a. Pressure washing area.

b. Blasting, sanding, and painting areas.

c. Engine maintenance and repair areas.

d. Drydock area.

e. General yard area.

2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance.

   1. The **Permittee** shall implement and describe measures to prevent spent abrasives, paint chips, and overspray from coming into contact with **stormwater**. The **Permittee** shall contain all blasting and painting activities, or use other measures to prevent the discharge of the contaminants (e.g. hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris).

   2. The **Permittee** shall implement and describe measures to prevent or minimize the contamination of **stormwater** from all areas used for engine maintenance and repair.

   3. The **Permittee** shall implement and describe measures to prevent or minimize the contamination of **stormwater** from material handling operations and areas (e.g. fueling, paint and solvent mixing, disposal of process wastewater streams from vessels).

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific **Stormwater** Controls.

   If pressure washing is used to remove paint, dirt, marine growth, or other materials from vessels, the discharge water must be permitted by a separate NPDES permit and is not authorized by this permit.

6. **SWPPP** Requirements

   In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify where any of the following may be exposed to **stormwater**:

1. Fueling.
2. Engine and vessel maintenance and repair.
3. Pressure washing.
4. Painting.
5. Sanding.
6. Blasting.
7. Welding.
8. Metal fabrication.
9. Locations used for the treatment, storage, or disposal of wastes.
10. Liquid storage areas (e.g. paint, solvents, resins).

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following additional sources that have potential pollutants associated with them:

1. Outdoor manufacturing or processing activities (e.g. welding, metal fabricating).
2. Significant dust or particulate generating processes (e.g. abrasive blasting, sanding and painting).

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table Q-1, below:

Table Q-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
Q1 Water Transportation Facilities	Solids, Total Suspended (TSS)	100 mg/L [2]
	Lead, Total (as Pb)	0.164 mg/L [1]
	Zinc, Total (as Zn)	0.234 mg/L [1]
	Iron, Total (as Fe)	1.0 mg/L
	Aluminum, Total (as Al)	1.5 mg/L

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector Q industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

R. Ship and Boat Building and Repair Yards

1. Authorized **Stormwater** Discharges

   The requirements in Sector R apply to **stormwater discharges associated with industrial activity** from ship and boat building and repair yards as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector R

   Permittees under Sector R are primarily engaged in ship building and repairing and boat building and repairing.

3. Limitations on Authorization

   The following discharges are not authorized by this permit:

   a. Bilge and ballast water.

   b. Sanitary wastes.

   c. Pressure wash water.

   d. Cooling water originating from vessels.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training

      As part of the employee training program, the **Permittee** shall address the following activities:

      1. Used oil management.

      2. Spent solvent management.

      3. Disposal of spent abrasives.

      4. Fueling procedures.

      5. Painting and blasting procedures.

      6. Used battery management.

b. Erosion and Sedimentation Controls *(No additional requirements)*.

c. Good Housekeeping.

1. The **Permittee** shall implement and describe a schedule for routine yard maintenance and cleanup. Regularly remove from the general yard area scrap metal, wood, plastic, miscellaneous trash, paper, glass, industrial scrap, insulation, welding rods, and packaging.

2. The **Permittee** shall describe procedures for routinely maintaining and cleaning the drydock area to prevent or minimize pollutants in **stormwater** runoff. Address the cleaning of accessible areas of the drydock prior to flooding and following removal of the vessel and raising the dock. Include procedures for cleaning up oil, grease, and fuel spills occurring on the drydock.

d. Inspections.

1. The **Permittee** shall inspect the following areas:

   a. Pressure washing area.

   b. Blasting, sanding, and painting areas.

   c. Engine maintenance and repair areas.

   d. Drydock area.

   e. General yard area.

2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance.

1. The **Permittee** shall implement and describe measures to prevent spent abrasives, paint chips, and overspray from coming into contact with **stormwater**. The **Permittee** shall contain all blasting and painting activities, or use other measures to prevent the discharge of the contaminants (e.g. hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris). The **Permittee** must also regularly clean deposits of abrasive blasting debris and paint chips.

2. The **Permittee** shall implement and describe measures to prevent or minimize the contamination of **stormwater** from all areas used for engine maintenance and repair.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific **Stormwater** Controls *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify where the following may be exposed to **stormwater**:

1. Fueling.

2. Engine maintenance or repair.

3. Vessel maintenance or repair.

4. Pressure washing.

5. Painting.

6. Sanding.

7. Blasting.

8. Welding.

9. Metal fabrication.

10. Liquid storage areas (e.g. paint, solvents, resins).
11. Blasting media, aluminum, steel, and scrap iron storage areas.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following additional sources that have potential pollutants associated with them:

1. Outdoor manufacturing or processing activities (e.g. welding, metal fabricating).

2. Significant dust or particulate generating processes (e.g. abrasive blasting, sanding and painting).

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table R-1, below:

Table R-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	**Parameter**	**Benchmark Values**
R1 Ship and Boat Building and Repairing Yards	Solids, Total Suspended (TSS)	100 mg/L [1]

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

Sector R industrial facilities are authorized to use designed **infiltration devices industrial stormwater ponds** for **stormwater** management.

S. Air Transportation

1. Authorized **Stormwater** Discharges

   The requirements in Sector S apply to **stormwater discharges associated with industrial activity** from air transportation facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector S

   Permittees under Sector S are primarily engaged in the following types of activities:

   a. Servicing, repairing, or maintaining aircraft and ground vehicles.

   b. Equipment cleaning and maintenance (including vehicle and equipment rehabilitation, mechanical repairs, painting, fueling, and lubrication).

   c. Deicing/anti-icing operations.

3. Limitation on Authorization

   a. Only those portions of the air transportation **facility** that are involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, or deicing operations are regulated as **industrial activity** under this permit, unless other portions of the **facility** include **industrial activities** that are described at 40 CFR 122.26(b)(14)(i-ix and xi), which are also regulated under this permit. In this case, these activities are **co-located** with the air transportation activities and the appropriate sector requirements for these activities also apply.

   b. This permit does not authorize the discharge of aircraft, ground vehicle, runway and equipment washwater, or the dry weather discharge of deicing chemicals. Such discharges must be authorized by a separate NPDES permit.

4. Sector-Specific Definitions

   a. “Deicing” means both deicing (removing frost, snow, or ice) and anti-icing (preventing accumulation of frost, snow, or ice) activities, unless specific mention is made regarding anti-icing and/or deicing activities.

   b. “Airport Authority” means a single management organization of the airport (usually a public entity).

   c. “Tenant” means airline carriers, fixed-base operators (e.g. fueling companies and maintenance shops), and others that have leases/agreements with the airport authority to conduct business on airport property. Tenants of the airport that

conduct **industrial activities** as described above, or as described anywhere in 40 CFR 122.26(b)(14), are required to apply for authorization under an NPDES **stormwater** permit.

d. "Deicing Season" means the average seasonal timeframe (e.g. December-February, October - March, etc.) during which deicing activities occur at the **facility**. The **Permittee** shall identify the average deicing season length in the **facility's SWPPP**.

5. **Stormwater** Controls

a. Employee Training.

The **Permittee** shall address the following in the employee training program:

1. Proper handling of deicing materials and fuels.

2. Spill and leak prevention.

3. Proper recordkeeping of deicing fluids applied and stored.

b. Erosion and Sedimentation Controls *(No additional requirements)*.

c. Good Housekeeping *(No additional requirements)*.

d. Inspections.

1. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall conduct two (2) inspections per month with no less than ten (10) days between inspections during the deicing season, as specified in the **Permittee's SWPPP**.

2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheens or films from oil and grease shall be implemented and documented in the **SWPPP**.

The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance.

1. The **Permittee** shall evaluate whether over-application of deicing chemicals on runways occurs by analyzing and adjusting application rates as necessary, consistent with considerations and requirements of flight safety. The evaluation must be carried out by the personnel most familiar with the particular aircraft and flight operations in question.

2. The **Permittee** shall describe and implement measures that prevent or minimize the contamination of **stormwater** runoff from all areas used for aircraft, ground vehicle, and equipment maintenance (including the maintenance conducted on the terminal apron and in dedicated hangers).

3. The **Permittee** shall describe and implement measures that prevent or minimize the contamination of **stormwater** with fuels and fuel servicing activities or other operations conducted in support of the airport fuel system.

4. The **Permittee** shall store all aircraft, ground vehicles and equipment awaiting maintenance in designated areas only. **BMPs** should be implemented in these designated areas to prevent or minimize contact of **stormwater** with materials exposed from vehicles awaiting maintenance.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff.

The **Permittee** shall describe and implement a program to control or manage contaminated runoff to reduce the amount of pollutants being discharged from the **facility**. Describe the controls used for collecting or containing contaminated melt water from collection areas used for disposal of contaminated snow.

6. **SWPPP** Requirements

In addition to **SWPPP** requirements in Part IV, the following sector-specific requirements must be met for an air transportation facility. Where applicable, **Permittees** meeting the definition of tenant, above, shall create a **SWPPP** specific to the tenant's own operations for **stormwater** discharges associated with the leased property/space. The individual tenant’s **SWPPP** shall reference the airport authority’s **SWPPP** with coordination between the two entities. Conversely, the airport authority’s SWPPP shall reference the tenant’s SWPPP with coordination between the two entities.

a. **Facility** Map.

The **Permittee** shall identify the following areas of the **facility** and indicate whether activities occurring are or may be exposed to **stormwater**:

1. Aircraft and runway deicing operations.

2. Fueling stations.

3. Aircraft.

4. Ground vehicle and equipment maintenance/cleaning areas.

5. Storage areas for aircraft, ground vehicles, and equipment awaiting maintenance.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall identify the potential for the following activities and **facility** areas to contribute pollutants to **stormwater** discharges:

1. Aircraft.

2. Runways.

3. Ground vehicle and equipment maintenance and cleaning.

4. Aircraft and runway deicing operations (including apron and centralized aircraft deicing stations, runways, taxiways, and ramps).

If the **Permittee** uses deicing chemicals or pesticides, records must be maintained of the types used (including the Material Safety Data Sheets [MSDS]) and the monthly quantities. This includes all deicing chemicals, not just glycols and urea (e.g. potassium acetate). All tenants that conduct these activities shall provide the above information in the **facility's SWPPP**, which will be attached and updated as necessary to the airport authority's comprehensive **SWPPP**.

d. Description of **Stormwater** Controls.

The **Permittee** shall clean equipment only in the areas identified in the **SWPPP** and clearly designate these areas using ground signage or other appropriate means.

7. Monitoring and Reporting Requirements

In addition to the monitoring requirements specified in Part V, the **Permittee** shall collect two (2) of the **facility's** four (4) required samples during periods that are during the airport's specified deicing season, for the applicable parameters, below.

Table S-1

Sector-Specific Benchmark Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	**Parameter**	**Benchmark Values**
S1 Airports that use more than 100,000 gallons of glycol-based deicing/anti-icing chemicals and/or 100 tons or more of urea on an average annual basis.	Solids, Total Suspended (TSS)	100 mg/L [1]
	5-Day Carbonaceous, Biochemical Oxygen Demand ($CBOD_5$)	25 mg/L
	Chemical Oxygen Demand (COD)	120 mg/L
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L
	pH [2]	6.0-9.0 SU

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*
2. *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 Agency will be performing a logarithmic average for this parameter using the instantaneous results submitted.*

Table S-2

Sector-Specific Benchmark Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Value
S2 Airports that use less than 100,000 gallons of glycol-based deicing/anti-icing chemicals and/or 100 tons or less of urea on an average annual basis.	Solids, Total Suspended (TSS)	100 mg/L [1]
	COD (Chemical Oxygen Demand)	120 mg/L
	5-Day Carbonaceous, Biochemical Oxygen Demand ($CBOD_5$)	25 mg/L
	Nitrogen, Ammonia, Total (as N)	2.8 mg/L

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   a. **Industrial Stormwater Ponds**

      1. The **Permittee** of a sector S industrial **facility** that does not conduct deicing activities, as defined above, is authorized to use **industrial stormwater ponds** for **stormwater** management without additional restrictions.

      2. The **Permittee** of a sector S industrial **facility** that conducts deicing activities, as defined above, is authorized to use **industrial stormwater ponds** for **stormwater** management provided that any **industrial stormwater pond** constructed after the **effective date** of this permit meets the following design criteria. Any **Permittee** required to comply with this part is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

         a. Th**e industrial stormwater pond** must be lined with a synthetic liner that is chemically compatible with materials expected to enter the pond, must be Ultra Violet (UV) stable, and must be designed to restrict infiltration to less than 500 gallons per acre per day.

         b. The **industrial stormwater pond** must be designed in accordance with accepted engineering practices. (See **Agency** "Recommended Pond Design Criteria" December 2009, Document number**:** wq-wwtp5-53 and any applicable supporting technical criteria)

b. **Infiltration Devices**

1. The **Permittee** of a sector S industrial **facility** that does not conduct deicing activities, as defined above, is authorized to use a designed **infiltration device** for industrial **stormwater** management and is not required to comply with Part VII.S.8.b.2, below.

2. The **Permittee** of a sector S industrial **facility** that conducts deicing activities, as defined above, is authorized to use a designed **infiltration device**, implemented prior to the **effective date** of this permit, for **stormwater** management provided the **Permittee** complies with the following requirements:

   a. The **Permittee** shall conduct benchmark monitoring in accordance with the terms and conditions of Part V of all industrial **stormwater** prior to infiltration. However, any **Permittee** required to comply with this part that is using a designed **infiltration device** to manage industrial **stormwater** is not authorized to utilize the benchmark monitoring waiver described in Part V.B.6.a of the permit.

   b. If the **Permittee** has a designed **infiltration device** operating prior to the **effective date** of this permit, the **Permittee** is authorized to continue using that device. However, on or after the **effective date** of this permit, the **Permittee** is not authorized to construct new **infiltration devices,** expand infiltration activities or practices that result in infiltration, or expand volume of infiltration.

T. Treatment Works

1. **Authorized Stormwater** Discharges

   The requirements in Sector T apply to **stormwater discharges associated with industrial activity** from treatment works as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector T

   Permittees under Sector T are primarily engaged in treatment works treating domestic sewage, or any other sewage sludge or wastewater treatment device or system used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage; including land dedicated to the disposal of sewage sludge; that are located within the confines of the facility with a design flow of 1.0 million gallons per day (MGD) or more; or are required to have an approved pretreatment program under 40 CFR pt. 403.

3. Limitations on Authorization

   The following discharges are not authorized by this permit:

   a. Sanitary and industrial wastewater.

   b. Equipment and vehicle washwater.

   c. Discharges from farm lands, domestic gardens, or lands used for sludge management where sludge is beneficially reused and which are not physically located within the facility, or areas that are in compliance with Section 405 of the CWA.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training.

      The **Permittee** shall address the following during employee training:

      1. Petroleum product management.

      2. Process chemical management.

      3. Fueling procedures.

      4. Proper procedures for using fertilizer, herbicides, and pesticides.

b. Erosion and Sedimentation Controls *(No additional requirements)*.

c. Good Housekeeping *(No additional requirements)*.

d. Inspections.

The **Permittee** shall include the following areas in all inspections:

1. Access roads and rail lines.

2. Grit, screenings, and other solids handling.

3. Sludge drying beds.

4. Dried sludge piles.

5. Compost piles.

6. Septage or hauled waste receiving stations.

e. Preventive Maintenance *(No additional requirements)*.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific **Stormwater** Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify where any of the following may be exposed to **stormwater**:

1. Handling, storage, or disposal areas for grit, screenings, and other solids.

2. Sludge drying beds.

3. Dried sludge piles.

4. Compost piles.

5. Septage or hauled waste receiving station.

6. Storage areas for process chemicals, petroleum products, solvents, fertilizers, herbicides, and pesticides.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following additional sources that have potential pollutants associated with them:

1. Grit, screenings, and other solids handling.

2. Sludge drying beds.

3. Dried sludge piles.

4. Compost piles.

5. Septage or hauled waste receiving station.

6. Access roads and rail lines.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table T-1, below:

Table T-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	**Parameter**	**Benchmark Values**
T1 Treatment Works	Solids, Total Suspended (TSS)	100 mg/L [1]
	BOD, Carbonaceous 05 Day (20 Deg C)	25 mg/L

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector T industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

U. Food and Kindred Products

1. Authorized **Stormwater** Discharges

   The requirements in Sector U apply to **stormwater discharges associated with industrial activity** from food and kindred products facilities as specified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector U

   Permittees under Sector U are primarily engaged in the following types of activities:

   a. Meat products.

   b. Dairy products.

   c. Canned, frozen, and preserved fruits, vegetables, and food specialties.

   d. Grain mill products.

   e. Bakery products.

   f. Sugar and confectionery products.

   g. Fats and oils.

   h. Beverages.

   i. Miscellaneous food preparations and kindred products.

   j. Tobacco products.

3. Limitations on Authorization

   a. The following discharges are not authorized by this permit:

      1. **Stormwater** discharges co-mingled with wastewaters or sources of non-**stormwater**, other than those listed under Part II of this permit, including those from industrial plant yards; material handling sites; refuse sites; sites used for application or disposal of process wastewaters; sites used for storage and maintenance of material handling equipment; sites used for residential wastewater treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; and storage areas for raw material and intermediate and finished products. This includes areas where **industrial activity** has taken place in the past and **significant materials** remain. Material handling activities include the storage, loading and unloading, transportation, or

conveyance of any raw material, intermediate product, finished product, by-product, or waste product.

2. Discharges subject to operations and process requirements of Part II, which include discharges containing boiler blowdown, cooling tower overflow and blowdown, ammonia refrigeration purging, and vehicle washing and clean-out operations.

b. Wastewater generated from these areas shall be treated at the **facility's** wastewater treatment facility in accordance with the **facility's** NPDES permit, or by discharge to a publicly owned treatment works (POTW), as authorized by the POTW. **Stormwater** discharges from these areas are authorized where no mixing of **stormwater** with wastewater or non-**stormwater** occurs, and where these areas do not at any time generate wastewater or non-**stormwater**.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

a. Employee Training.

The **Permittee** shall include the following activities as appropriate:

1. Used oil and spent solvent management.

2. Segregation of organic materials, raw materials, and products from contact with **stormwater** and precipitation.

3. Pest control.

b. Erosion and Sedimentation Controls *(No additional requirements)*.

c. Good Housekeeping *(No additional requirements)*.

d. Inspections.

1. The **Permittee** shall inspect the following areas where the potential for exposure to **stormwater** exists:

a. Waste management units.

b. Vents and stacks associated with **industrial activities**.

c. Spoiled product and broken product container holding areas.

d. Animal holding pens.

e. Staging areas.

f. Air pollution control equipment.

2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance *(No additional requirements)*.

f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific **Stormwater** Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

   The **Permittee** shall identify the locations of the following activities if they are exposed to **stormwater**:

   1. Vents and stacks from cooking, drying, and similar operations.

   2. Dry product vacuum transfer lines.

   3. Animal holding pens.

   4. Spoiled product and broken product container storage areas.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe, in addition to food and kindred products processing-related **industrial activities**, application and storage of pest control chemicals (e.g. rodenticides, insecticides, fungicides) used on plant grounds.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table U-1, below:

Table U-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
U1 Grain Mill Products	Solids, Total Suspended (TSS)	100 mg/L [1]
U2 Fats and Oils Products	Solids, Total Suspended (TSS)	100 mg/L [1]
	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
U3 Food and Tobacco Products, Food Preparation Facilities	Solids, Total Suspended (TSS)	100 mg/L [1]
	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

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

Sector U industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

V. Textile Mills, Apparel, and Other Fabric Products Manufacturing

1. Authorized **Stormwater** Discharges

   The requirements in Sector V apply to **stormwater discharges associated with industrial activity** from textile mills, apparel, and other fabric product manufacturing as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector V

   Permittees under Sector V are primarily engaged in the following types of activities:

   a. Textile mill product preparation, including preparation of fiber and subsequent manufacturing of yarn, thread, braids, twine, and cordage.

   b. The manufacture of broadwoven fabrics, narrow-woven fabrics, knit fabrics, and carpets and rugs from yarn.

   c. Processes involved in the dyeing and finishing of fibers, yarn fabrics, and knit apparel.

   d. Apparel and other finished products made from fabric and similar materials, integrated manufacturing of knit apparel and other finished articles of yarn, manufacturing of felt goods (e.g. wool), lace goods, non-woven fabrics, miscellaneous textiles, and other apparel products.

   e. Leather and leather products, except leather tanning and finishing.

3. Limitations on Authorization

   Discharges of wastewater (e.g. wastewater resulting from wet processing or from any processes relating to the production process), reused or recycled water, and waters used in cooling towers are not authorized under this permit.

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training.

      As part of the employee training program, the **Permittee** shall address the following activities:

      1. Use of reused and recycled waters.

      2. Solvents management.

3. Proper disposal of dyes.

4. Proper disposal of petroleum products and spent lubricants.

b. Erosion and Sedimentation Controls *(No additional requirements)*.

c. Good Housekeeping *(No additional requirements)*.

d. Inspections.

In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance.

The **Permittee** shall describe and implement measures that prevent or minimize contamination of **stormwater** from material handling operations by using the following:

1. Spill and overflow protection.

2. Covering or enclosing areas where the transfer of materials occurs. The **Permittee** shall address the replacement or repair of leaking connections, valves, transfer lines, and pipes that carry chemicals, dyes, or wastewater.

f. Spills and Leaks *(No additional requirements)*.

g. Management of runoff *(No additional requirements)*.

h. Other Industry Specific **Stormwater** Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map *(No additional requirements)*.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following additional sources and activities that have potential pollutants associated with them:

1. Backwinding.
2. Beaming.
3. Bleaching.
4. Backing bonding.
5. Carbonizing.
6. Carding.
7. Cut and sew operations.
8. Desizing.
9. Drawing.
10. Dyeing locking.
11. Fulling, knitting.
12. Mercerizing.
13. Opening.
14. Packing.
15. Plying.
16. Scouring.

17. Slashing.

18. Spinning.

19. Synthetic-felt processing.

20. Textile waste processing.

21. Tufting.

22. Turning.

23. Weaving.

24. Web forming.

25. Winging.

26. Yarn spinning.

27. Yarn texturing.

d. Description of **Stormwater** Controls *(No additional requirements).*

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table V-1, below:

Table V-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	**Parameter**	**Benchmark Value**
V1 Textile, Fabric, & Apparel Manufacturing, Leather & Leather Products	Solids, Total Suspended (TSS)	100 mg/L [1]

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

Sector V industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

W. Furniture and Fixtures

1. Authorized **Stormwater** Discharges

   The requirements in Sector W apply to **stormwater discharges associated with industrial activity** from furniture and fixtures facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector W

   Permittees under Sector W are primarily engaged in the following types of activities:

   a. Furniture and fixtures.

   b. Wood kitchen cabinets.

3. Limitations on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls *(No Additional Requirements)*

6. **SWPPP** Requirements *(No Additional Requirements)*

7. Monitoring and Reporting Requirements

   In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table W-1, below:

Table W-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Value
W1 Furniture and Fixtures	Solids, Total Suspended (TSS)	100 mg/L [1]

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector W industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management. See Appendix C for requirements.

X. Printing and Publishing

1. Authorized **Stormwater** Discharges

   The requirements in Sector X apply to **stormwater discharges associated with industrial activity** from printing and publishing facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector X

   Permittees under Sector X are primarily engaged in the following types of activities:

   a. Book printing.

   b. Commercial printing and lithographics.

   c. Platemaking and related services.

   d. Commercial printing, gravure.

   e. Commercial printing, not elsewhere classified.

3. Limitation on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls Measures

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping *(No additional requirements)*.

   d. Inspections *(No additional requirements)*.

   e. Preventive Maintenance.

      The **Permittee** shall describe and implement measures that prevent or minimize contamination of **stormwater** runoff from blanket wash areas and mixing solvent areas. The **Permittee** shall have **BMPs** that address the replacement or repair of leaking connections, valves, transfer lines, and pipes that may carry chemicals or wastewater.

   f. Spills and Leaks *(No additional requirements)*.

g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map *(No additional requirements)*.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following additional sources that have potential pollutants associated with them:

1. Significant dust or particulate generating processes, and onsite waste disposal practices (e.g. blanket wash).

2. The **Permittee** shall also identify the pollutant parameter (e.g. oil and grease, scrap metal) associated with each pollutant source.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table X-1, below:

Table X-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

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

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector X industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

Y. Rubber, Miscellaneous Plastic Products, and Miscellaneous Manufacturing Industries

1. Authorized **Stormwater** Discharges

   The requirements in Sector Y apply to **stormwater discharges associated with industrial activity** from rubber, miscellaneous plastic products, and miscellaneous manufacturing facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector Y

   Permittees under Sector Y are primarily engaged in the following types of activities:

   a. Manufacturing of tires and inner tubes.

   b. Rubber and plastic footwear.

   c. Gaskets, packing and sealing devices, and rubber hose and belting.

   d. Fabricated rubber products.

   e. Manufacturing of miscellaneous plastics products.

   f. Musical instruments.

   g. Dolls, toys, games, and sporting and athletic goods.

   h. Pens, pencils, and other artists' materials.

   i. Costume jewelry, costume novelties, buttons, pins, and needles.

   j. Miscellaneous notions, except precious metal.

3. Limitation on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping *(No additional requirements)*.

   d. Inspections *(No additional requirements)*.

e. Preventive Maintenance.

1. The **Permittee** shall describe and implement specific controls to minimize contact of zinc with **stormwater** discharges by:

a. Using chemicals purchased in pre-weighed, sealed polyethylene bags.

b. Storing in-use materials in sealable containers.

c. Ensuring an airspace between the container and the cover to minimize "puffing" losses when the container is opened.

d. Using automatic dispensing and weighing equipment.

e. Replacing or repairing improperly operating dust collectors or baghouses.

2. The **Permittee** shall describe and implement specific controls to minimize contact of plastic resin pellets with **stormwater** discharges.

f. Spills and Leaks *(No additional requirements).*

g. Management of Runoff *(No additional requirements).*

h. Other Industry Specific **Stormwater** Controls *(No additional requirements).*

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map *(No additional requirements).*

b. Inventory of Exposed Materials *(No additional requirements).*

c. Potential Pollutant Sources.

The **Permittee** shall review the use of zinc at the **facility** and the possible pathways through which zinc may be discharged into **stormwater**. The **Permittee** shall list the materials and activities at the **facility** that are sources of zinc.

d. Description of **Stormwater** Controls *(No additional requirements).*

7. Monitoring and Reporting Requirements

   In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table Y-1, below:

Table Y-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

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

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector Y industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

Z. Leather Tanning and Finishing

1. Authorized **Stormwater** Discharges

   The requirements in Sector Z apply to **stormwater discharges associated with industrial activity** from leather tanning and finishing facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector Z

   Permittees under Sector Z are primarily engaged in leather tanning, currying, and finishing activities.

3. Limitations on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping *(No additional requirements)*.

   d. Inspections *(No additional requirements)*.

   e. Preventive Maintenance.

      1. The **Permittee** shall store pallets and bales of raw, semi-processed, or finished tannery by-products (e.g. splits, trimmings, shavings) indoors or these materials must be protected by polyethylene wrapping, tarpaulins, or roofed storage.

      2. The **Permittee** shall to the extent feasible store materials on an impermeable surface and enclose or put berms (or equivalent measures) around these areas.

      3. The **Permittee** shall describe and implement measures that prevent or minimize contamination of **stormwater** runoff with leather dust from buffing and shaving areas. The **Permittee** shall use dust collection systems and assure that they are operating properly.

   f. Spills and Leaks *(No additional requirements)*.

   g. Management of Runoff *(No additional requirements)*.

h. Other Industry Specific **Stormwater** Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify on the **facility** map where any of the following may be exposed to **stormwater**:

1. Processing and storage areas of the beamhouse.

2. Tanyard.

3. Re-tan wet finishing and dry finishing operations.

4. Haul roads and access roads.

5. Rail spurs.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following additional sources that have potential pollutants associated with them:

1. Temporary or permanent storage of fresh and brine-cured hides.

2. Extraneous hide substances and hair.

3. Leather dust, scraps, trimmings, and shavings.

4. Chemical drums, bags, containers.

5. Empty chemical containers and bags.

6. Spent solvents.

7. Floor sweepings and washings.

8. Refuse, waste piles, and sludge.

9. Significant dust/particulate generating processes (e.g. buffing).

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table Z-1, below:

Table Z-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

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

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

Sector Z industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

AA. Fabricated Metal Products

1. Authorized **Stormwater** Discharges

   The requirements in Sector AA apply to **stormwater discharges associated with industrial activity** from fabricated metal products facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector AA

   Permittees under Sector AA are primarily engaged in the following types of activities:

   a. Fabricated metal products, except machinery and transportation equipment and cutting.

   b. Jewelry, silverware, and plated ware.

   c. Fabricated metal coating, engraving, and allied services.

3. Limitations on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping.

      1. The **Permittee** shall describe and implement measures for controlling or recovering scrap metals, fines, and metal dust. The **Permittee** shall include measures for containing materials within storage and handling areas.

      2. The **Permittee** shall describe and implement measures for storage of metal working fluids.

   d. Inspections.

      1. The **Permittee** shall inspect the following areas where the potential for exposure to stormwater exists:

         a. Areas associated with spent solvents.

b. Chemical storage areas.

c. Outdoor paint areas.

2. In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

   The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

e. Preventive Maintenance.

   The **Permittee** shall describe and implement measures to prevent or minimize exposure of paint and painting equipment to **stormwater**.

f. Spills and Leaks.

   1. The **Permittee** shall describe and implement measures to control and clean up spills of solvents and other liquid cleaners, control sand buildup and disbursement from sand-blasting operations, and prevent exposure of recyclable wastes including rinse waters.

   2. The **Permittee** shall use monitoring equipment or other devices to detect and control leaks and overflows of lubricating oil and hydraulic fluid. The **Permittee** shall install perimeter controls or equivalent measures.

g. Management of Runoff *(No additional requirements)*.

h. Other **Stormwater** Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

   In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

a. **Facility** Map.

The **Permittee** shall identify where any of the following may be exposed to **stormwater**:

1. Raw metal storage areas.
2. Finished metal storage areas.
3. Scrap disposal collection sites.
4. Retention and detention basins.
5. Temporary and permanent diversion dikes or berms.
6. Right-of-way or perimeter diversion devices.
7. Sediment traps and barriers.
8. Processing areas, including outdoor painting areas.
9. Wood preparation.
10. Recycling.
11. Raw material storage.

b. Inventory of Exposed Materials *(No additional requirements)*.

c. Potential Pollutant Sources.

The **Permittee** shall describe the following additional sources that have potential pollutants associated with them. Potential pollutants include chromium, zinc, lubricating oil, solvents, aluminum, oil and grease, methyl ethyl ketone, steel, and related materials.

1. Operations for paints, chemicals, and scrap metals.
2. Outdoor manufacturing or processing activities such as grinding, cutting, degreasing, buffing, and brazing.
3. On-site waste disposal practices for spent solvents, sludge, pickling baths, shavings, ingot pieces, and refuse and waste piles.

d. Description of **Stormwater** Controls *(No additional requirements)*.

7. Monitoring and Reporting Requirements

   In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table AA-1, below:

Table AA-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	Parameter	Benchmark Values
AA1 Fabricated Metal Products	Aluminum, Total (as Al)	1.5 mg/L
	Iron, Total (as Fe)	1.0 mg/L
	Zinc, Total (as Zn)	0.234 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]
AA2 Fabricated Metal Coating and Engraving	Zinc, Total (as Zn)	0.234 mg/L [1]
	Solids, Total Suspended (TSS)	100 mg/L [2]

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

   Sector AA industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

AB. Transportation Equipment and Industrial or Commercial Machinery

1. Authorized **Stormwater** Discharges

   The requirements in Sector AB apply to **stormwater discharges associated with industrial activity** from transportation equipment and industrial or commercial machinery facilities as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector AB

   Permittees under Sector AB are primarily engaged in the following types of activities:

   a. Manufacturing engines and turbines.

   b. Manufacturing farm and garden machinery and equipment.

   c. Manufacturing construction, mining, and materials-handling machinery and equipment.

   d. Manufacturing metalworking machinery and equipment.

   e. Manufacturing special industry machinery, except metalworking machinery.

   f. Manufacturing general industrial machinery and equipment.

   g. Manufacturing refrigeration and service industry machinery.

   h. Manufacturing miscellaneous industrial and commercial machinery and equipment.

   i. Manufacturing motor vehicles and motor vehicle equipment.

   j. Manufacturing aircraft and parts.

   k. Manufacturing motorcycles, bicycles, and parts.

   l. Manufacturing guided missiles and space vehicles and parts.

   m. Manufacturing miscellaneous transportation equipment.

3. Limitation on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls

   a. Employee Training *(No additional requirements)*.

   b. Erosion and Sedimentation Controls *(No additional requirements)*.

   c. Good Housekeeping *(No additional requirements)*.

   d. Inspections.

      In addition to the inspection requirements outlined in Part III.F, the **Permittee** shall ensure that a total of two (2) of the required monthly inspections occur during runoff events, with at least one being performed during snow melt. Each inspection shall include a visual assessment of the runoff to identify any visible sheens or films that indicate the presence of oil or grease in the discharge. If sheens are present in **stormwater** discharges, corrective actions to prevent sheen shall be implemented and documented in the **SWPPP**.

      The **Permittee** is only required to conduct visual inspections of runoff originating from, or passing through, areas of **industrial activity** and/or **significant materials**. Any runoff that does not contact **industrial activity** and/or **significant materials** (e.g. office buildings, employee parking lots, natural areas, etc) is not required to be inspected.

   e. Preventive Maintenance *(No additional requirements)*.

   f. Spills and Leaks *(No additional requirements)*.

   g. Management of Runoff *(No additional requirements)*.

   h. Other **Stormwater** Control Measures *(No additional requirements)*.

6. **SWPPP** Requirements

   In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

   a. **Facility** Map.

      The **Permittee** shall identify where any vents and stacks from metal processing and similar operations are exposed to **stormwater**.

   b. Inventory of Exposed Materials *(No additional requirements)*.

   c. Potential Pollutant Sources *(No additional requirements)*.

d. Description of **Stormwater** Controls *(No additional requirements).*

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table AB-1, below:

Table AB-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

Subsector	**Parameter**	**Benchmark Value**
AB1 Transportation Equipment and Industrial or Commercial Machinery	Solids, Total Suspended (TSS)	100 mg/L [1]

1. *If the Permittee is required to comply with Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

Sector AB industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

AC. Electronic and Electrical Equipment and Components, Photographic and Optical Goods

1. Authorized **Stormwater** Discharges

   The requirements in Sector AC apply to **stormwater discharges associated with industrial activity** from facilities that manufacture electronic and electrical equipment and components and photographic and optical goods as identified by the **industrial activity** code specified in Table 5 of Appendix D.

2. **Industrial Activities** Authorized by Sector AC

   Permittees under Sector AC are primarily engaged in the following types of activities:

   a. Manufacturing of measuring, analyzing, and controlling instruments, photographic and optical goods, watches and clocks.

   b. Manufacturing of computer and office equipment.

   c. Manufacturing of electronic and electrical equipment and components.

3. Limitations on Authorization *(No Additional Limitations)*

4. Sector-Specific Definitions *(No Additional Definitions)*

5. **Stormwater** Controls *(No Additional Requirements)*

6. **SWPPP** Requirements

   In addition to the requirements of Part IV, the **Permittee** shall also comply with the following:

   a. **Facility** Map.

      The **Permittee** shall identify where any of the following may be exposed to **stormwater**:

      1. Finished metal storage areas.

      2. Scrap disposal collection sites.

      3. Retention and detention basins.

      4. Temporary and permanent diversion dikes or berms.

      5. Right-of-way or perimeter diversion devices.

6. Sediment traps and barriers.

7. Processing areas, including outdoor painting areas.

8. Recycling areas.

b. Inventory of Exposed Materials *(No additional requirements).*

c. Potential Pollutants *(No additional requirements).*

d. Description of **Stormwater** Controls *(No additional requirements).*

7. Monitoring and Reporting Requirements

In accordance with the monitoring requirements of Part V, the **Permittee** shall monitor the applicable parameters in Table AC-1, below:

Table AC-1

Sector-Specific Benchmark Monitoring Values.
Discharges may be subject to requirements for more than one sector or subsector.

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

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 Table 4 of Appendix B 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 Appendix A, part F.1, the benchmark value for Solids, Total Suspended (TSS) is 65 mg/L, instead of 100 mg/L.*

8. Use of **Infiltration Devices** and/or **Industrial Stormwater Ponds** for **Stormwater** Treatment and Disposal

Sector AC industrial facilities are authorized to use designed **infiltration devices** or **industrial stormwater ponds** for **stormwater** management.

PART VIII. GENERAL PROVISIONS

A. Incorporation by Reference

This permit incorporates by reference the applicable portions of 40 CFR pts. 122, 123, and 124; Minn. R. chs. 7001, 7050, and 7090; and Minn. Stat. chs. 115 and 116, all of which are enforceable parts of this permit.

B. Liabilities

The **Agency's** issuance of this permit does not release the **Permittee** from any liability, penalty, or duty imposed by Minnesota or federal statutes or rules or local ordinances, except the obligation to obtain the permit. (Minn. R. 7001.0150, subp. 3[A].)

C. More Stringent Rules

The **Agency's** issuance of this permit does not prevent the future adoption by the **Agency** of pollution control rules, standards, or orders more stringent than those now in existence and does not prevent the enforcement of these rules, standards, or orders against the **Permittee**. (Minn. R. 7001.0150, subp. 3[B].)

D. Property Rights

This permit does not convey a property right or an exclusive privilege. (Minn. R. 7001.0150, subp. 3[C].)

E. **Agency** Obligation

The **Agency's** issuance of this permit does not obligate the **Agency** to enforce local laws, rules, or plans beyond what is authorized by Minnesota statutes. (Minn. R. 7001.0150, subp. 3[D].)

F. Compliance

The **Permittee** shall perform the actions or conduct the activity authorized by this permit in accordance with the plans and specifications approved by the **Agency**, if required, and in compliance with the conditions of the permit. (Minn. R. 7001.0150, subp. 3[E].)

G. Toxic Pollutant Discharge

Notwithstanding the absence in this permit of an effluent limitation for any toxic pollutant, the **Permittee** shall not discharge a toxic pollutant except according to 40 CFR pts. 400 to 460 and Minn. R. 7050.0100 to 7050.0220 and 7055.0010 to 7055.0120, and any other applicable **Agency** rules. (Minn. R. 7001.1090, subp. 1[A].)

H. Operation and Maintenance

The **Permittee** shall at all times properly operate and maintain the facilities and systems of treatment and control and the appurtenances related to them which are installed or used by the **Permittee** to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. The **Permittee** shall install and maintain appropriate backup of auxiliary facilities if they are necessary to achieve compliance with the conditions of the permit and, for all permits other than hazardous waste **facility** permits, if these backup or auxiliary facilities are technically and economically feasible. (Minn. R. 7001.0150, subp. 3[F].)

I. Criminal Activity

The **Permittee** may not knowingly make a false or misleading statement, representation, or certification in a record, report, plan, or other document required to be submitted to the **Agency** or to the **Commissioner** by the permit. The **Permittee** shall immediately upon discovery report to the **Commissioner** an error or omission in these records, reports, plans, or other documents. (Minn. R. 7001.0150, subp. 3[G].)

J. Noncompliance

If the **Permittee** discovers, through any means, including notification by the **Agency**, that noncompliance with a condition of the permit has occurred, the **Permittee** shall take all reasonable steps to minimize the adverse impacts on human health, public drinking water supplies, or the environment resulting from the noncompliance. (Minn. R. 7001.0150, subp. 3[J].)

K. Subject to Enforcement Action and Penalties

Noncompliance with a term or condition of this permit subjects the **Permittee** to penalties provided by federal and state law set forth in section 309 of the Clean Water Act, United States Code, Title 33, Section 1319 as amended; and in Minn. Stat. § 115.071, including monetary penalties, imprisonment, or both. (Minn. R. 7001.1090, subp. 1[B].)

L. Records

The **Permittee** shall, when requested by the **commissioner**, submit within a reasonable time the information and reports that are relevant to the control of pollution regarding the construction, modification, or operation of the **facility** authorized by the permit or regarding the conduct of the activity authorized by the permit. (Minn. R. 7001.0150, subp. 3[H].)

M. Confidential Information

Except for any records or other information determined to be confidential under Minn. Stat. § 116.075, subd. 2, all reports required by this permit shall be available for public inspection. In order to maintain data for confidential use of the **Agency**, pursuant to Minn. Stat. § 116.075, or as nonpublic data not on individuals or private data as it relates to individuals, pursuant to Minn. Stat. § 13.37, a **person** must affirmatively request such recognition by providing to the **Commissioner** a written request setting forth the statutory grounds and the reasons that justify the classification of the records or other information as not public. (Minn. R. 7000.1300, subp. 1.)

N. Inspection and Entry

When authorized by Minn. Stat. §§ 115.04, 115B.17, subd. 4, and 116.091; and upon presentation of proper credentials, the **Agency**, or an authorized employee or agent of the **Agency**, shall be allowed by the **Permittee** to enter at reasonable times upon the property of the **Permittee** to examine and copy books, papers, records, or memoranda pertaining to the construction, modification, or operation of the **facility** authorized by the permit or pertaining to the activity authorized by the permit; and to conduct surveys and investigations, including sampling or monitoring, pertaining to the construction, modification, or operation of the **facility** authorized by the permit or pertaining to the activity authorized by the permit. (Minn. R. 7001.0150, subp. 3[I].)

O. Transfer of Ownership or Control

This permit is not transferable to any **person** without the express written approval of the **Agency** after compliance with the requirements of Minn. R. 7001.0190. A **person** to whom the permit has been transferred shall comply with the conditions of the permit. (Minn. R. 7001.0150, subp. 3[N].)

P. Liability Exemption

This permit authorizes the **Permittee** to perform the activities described in this permit under the conditions of the permit. In issuing this permit, the State and **Agency** assume no responsibility for any damage to **persons**, property or the environment caused by the activities of the **Permittee** in the conduct of its actions, including those activities authorized, directed, or undertaken under this permit. To the extent the State and **Agency** may be liable for the activities of its employees, that liability is explicitly limited to that provided in the Torts Claim Act, Minn. Stat. § 3.736. (Minn. R. 7001.0150, subp. 3[O].)

Q. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the **Permittee** from civil or criminal penalties for noncompliance with the terms and conditions provided herein. Nothing in this permit shall be construed to preclude the initiation of any legal action or relieve the

Permittee from any responsibilities, liabilities, or penalties to which the **Permittee** is or may be subject to under Section 311 of the Clean Water Act and Minn. Stat. chs. 115 and 116, as amended; and any rules adopted thereunder.

R. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

APPENDIX A. SPECIAL REQUIREMENTS

A. General Requirements

1. All applicable requirements of Appendix A are in addition to any requirements already specified in this permit.

2. The **Permittee** shall document and implement all appropriate changes to the **SWPPP**, including all industrial **stormwater BMP**s used to comply with Appendix A, in accordance with the documentation, conclusions, and other measures required in this Appendix.

3. If the terms and conditions of Appendix A cannot be met, the **Permittee** is not authorized to discharge industrial **stormwater** under this permit. The **Permittee** must notify the **Agency** and seek coverage under an individual NPDES/SDS permit in accordance with Minn. R. ch. 7001.

B. Specific Requirements for Industrial **Facility** Discharges Regulated Under Minn. R. 7050.0180, Nondegradation For Outstanding Resource Value Waters

1. Industrial facilities are not authorized to discharge industrial **stormwater** to the Outstanding Resource Value Waters listed under Part B.2 of this Appendix unless the **Permittee** complies with all terms and conditions of this permit, including the applicable elements of Part F of Appendix A. Appendix A, Part B, applies to any industrial **facility** that has a **monitoring location** from which a discharge flows to, and is within **one mile** of, the Outstanding Resource Value Water, if after the effective date the Outstanding Resource Value Water was designated, the industrial **facility** either:

   a. Commenced discharging industrial **stormwater**, or

   b. Changed industrial **stormwater** discharges in a manner (location, volume, or any other manner) such that an increase in one or more pollutants has occurred.

2. Restricted discharges as defined in Minn. R. 7050.0180, subp. 6, 6a, and 6b.

   a. Lake Superior, except those portions identified as a prohibited discharges zone.

   The **Permittee** shall comply with F.1.

   b. The Mississippi River, those portions from Lake Itasca to the southerly boundary of Morrison County that are included in the Mississippi Headwaters Board comprehensive plan dated February 12, 1981.

   The **Permittee** shall comply with F.1.

c. *Lake trout lakes, identified in Minn. R. 7050.0460 to 7050.0470.*

The **Permittee** shall comply with F.1, and F.3.

d. *Federal or state designated scenic or recreational river segments: Saint Croix river, entire length; Cannon River from northern city limits of Faribault to its confluence with the Mississippi River; North Fork of the Crow River from Lake Koronis outlet to the Meeker-Wright County line; Kettle River from north Pine County line to the site of the former dam at Sandstone; Minnesota River from Lac qui Parle dam to Redwood County state aid highway 11; Mississippi River from county state aid highway 7 bridge in Saint Cloud to northwestern city limits of Anoka; and Rum River from state aid Highway 27 bridge in Onamia to Madison and Rice streets in Anoka.*

The **Permittee** shall comply with F.1.

e. *Calcareous fens as identified in Minn. R. 7050.0180 subp. 6b.*

The **Permittee** shall comply with F.1, and F.5.

C. Special requirements for industrial facilities that have a **monitoring location** from which a discharge flows to, and is within **One Mile** of, Trout Streams listed in Minn. R. 6264.0050, subp. 4.

The **Permittee** shall comply with F.1, and F.2.

D. Special requirements for industrial facilities that have a **monitoring location** from which a discharge flows to, and is within **One Mile** of, Trout Lakes listed in Minn. R. 6264.0050, subp. 2.

The **Permittee** shall comply with F.1, and F.3.

E. Special requirements for industrial facilities that have a **monitoring location** from which a discharge flows to, and is within **One Mile** of, **Wetlands** as defined in Minn. R. 7050.0186, subp 1a.B.

The **Permittee** shall comply with F.4.

F. Additional Required **BMPs**

If the **Permittee** cannot certify a condition of **No Exposure,** as described in Part I.I, the **Permittee** shall comply with the appropriate requirements below.

1. The **Permittee** shall develop and implement **stormwater** control measures, including **BMPs** that restrict the **facility** industrial **stormwater** discharges to the extent necessary to preserve the existing high quality, or to preserve the wilderness,

scientific, recreational, or other special characteristics that make the water an Outstanding Resource Value Water. In addition, a benchmark value of 65 mg/L for Solids, Total Suspended (TSS) applies to the discharge at a **benchmark monitoring location**, instead of 100 mg/L as specified in the sector requirements of Part VII. If the **Permittee** has a waiver from the requirements to conduct benchmark monitoring in accordance with Part V.B.6, the benchmark value does not apply.

The **SWPPP** shall contain the following components;

a. A selection of industrial **stormwater** volume reduction and/or pollutant concentration reduction **BMPs**, designed to restrict industrial **stormwater** discharges to the designated water. The **SWPPP** shall include necessary calculations to demonstrate the effectiveness of the chosen **BMPs** in reducing volume and/or pollutant concentrations. **BMP** options the **Permittee** can consider for this purpose include, but are not limited to, removing **industrial activities** and/or **significant materials** from contact with rain or snowmelt, re-use of industrial **stormwater**, **stormwater** ponding, infiltration, filtration, porous pavement, constructed wetlands, evaporation, evapotranspiration, etc.

b. A narrative discussion describing how the **Permittee** will ensure the **BMPs** used will be monitored and maintained, long-term, to ensure the industrial **facility** will sustain restricted industrial **stormwater** discharges.

2. The **Permittee** shall design and implement **BMPs** specifically protecting the water quality of trout streams from excess temperature increases. Any associated calculations and design details shall be included with the **SWPPP**, as required by F.1.

3. The **Permittee** shall design and implement **BMPs** specifically protecting the water quality of trout lakes from excess phosphorus increases. Any associated calculations and design details shall be included with the **SWPPP**, as required by F.1.

4. The **Permittee** shall comply with the requirements of Minn. R. 7050.0186, WETLAND STANDARDS AND MITIGATION.

5. The **Permittee** shall seek approval from the Minnesota Department of Natural Resources (DNR) for all discharges to a Calcareous Fen. Any approved management plan and/or the **Permittees** petition to seek approval from the DNR shall be kept with the **SWPPP** or as a separate document.

APPENDIX B. CALCULATING HARDNESS IN DISCHARGE WATERS FOR HARDNESS DEPENDENT METALS

A. The **Agency** allows adjustment of benchmark values for seven hardness-dependent metals (i.e. cadmium, chromium +3, copper, lead, nickel, silver, and zinc) to provide flexibility in compliance with benchmark values in this permit. For any sector required to conduct benchmark monitoring for a hardness-dependent metal, the **Agency** includes "hardness ranges" from which benchmark values can be determined. The **Permittee** has the option to use the default value of 100 mg/L total hardness or to use another range if that is appropriate for the industrial **stormwater** discharge. To determine which hardness range to use, the **Permittee** must collect data on the hardness of the industrial **stormwater** discharge. Once the site-specific hardness data have been collected, the corresponding benchmark value for each metal is determined by comparing where the hardness data fall within 25 mg/L ranges, as shown in Table 4.

Table 4

Hardness Ranges to Be Used to Determine Benchmark Values for Cadmium, Chromium +3, Copper, Lead, Nickel, Silver, and Zinc.

	Benchmark Values (mg/L, total)						
Standard	**Minn. R 7050.0222 Class 2A**	**Minn. R 7050.0222 Class 2A&2B**	**Minn. R 7052.0100**	**Minn. R 7050.0222 Class 2A&2B**	**Minn. R 7052.0100**	**Minn. R 7050.0222 Class 2A&2B**	**Minn. R 7050.0222 Class 2A&2B**
Hardness in mg/L total	**Cadmium Cd**	***Chromium + 3 Cr3**	**Copper Cu**	**Lead Pb**	**Nickel Ni**	**Silver Ag**	**Zinc Zn**
100 or less	0.0078	3.4690	0.0280	0.1637	0.9383	0.0041	0.2341
>100-125	0.0090	3.8204	0.0313	0.1902	1.0366	0.0050	0.2586
>125-150	0.0112	4.5028	0.0479	0.2455	3.7133	0.0070	0.3066
>150-175	0.0136	5.1630	0.0560	0.3037	4.2770	0.0094	0.3532
>175-200	0.0159	5.8049	0.0641	0.3644	4.8275	0.0120	0.3987
>200-225	0.0184	6.4316	0.0722	0.4274	5.3667	0.0148	0.4433
>225-250	0.0208	7.0450	0.0801	0.4924	5.8962	0.0180	0.4871
>250-275	0.0233	7.6467	0.0881	0.5593	6.4172	0.0213	0.5302
>275-300	0.0258	8.2382	0.0959	0.6279	6.9306	0.0250	0.5727
>300-325	0.0284	8.8205	0.1038	0.6983	7.4371	0.0288	0.6146
>325-350	0.0309	9.3943	0.1116	0.7701	7.9374	0.0329	0.6560
>350-375	0.0335	9.9605	0.1194	0.8435	8.4321	0.0372	0.6970
>375-400	0.0361	10.5197	0.1271	0.9182	8.9215	0.0417	0.7375
>400	0.0375	10.7968	0.1310	0.9561	9.1644	0.0440	0.7576

** Measured as Chromium, Total (as Cr)*

B. How to Determine Hardness for Hardness-Dependent Parameters.

If the **Permittee** chooses to determine hardness, the **Permittee** shall document the procedures used for determining hardness values. Hardness samples taken at the same time and location as benchmark samples is recommended because they will be representative of the actual monitored data. Statistical analysis of the hardness is

encouraged if the **Permittee** has existing data over several year cycles. Once the hardness value is established, the **Permittee** is required to include this information with the **Stormwater** Monitoring Report so the **Agency** can make appropriate comparisons between the benchmark monitoring results and the corresponding benchmark value. The **Permittee** shall retain all calculations, reports, and monitoring data in accordance with Part II.C of the permit.

APPENDIX C. BENCHMARK MONITORING WAIVER FOR INDUSTRIAL STORMWATER INFILTRATION AND PONDING

This Appendix addresses requirements for the Benchmark Monitoring Waiver for industrial **stormwater infiltration devices**, and **industrial stormwater ponds** as defined in Appendix E. (Note that effluent limit monitoring is not exempt from monitoring.) The Benchmark Monitoring Waiver is not granted unless all applicable requirements of the permit, and specifically this Appendix, are complied with. Note that Parts III and VII of the permit have specific additional sector or subsector requirements regarding **stormwater** infiltration. **Permittees** must be in compliance with Part III and VII requirements in order to utilize infiltration or ponding as part of a **stormwater** treatment system. Violation of any specific requirements that may affect the operation of the **industrial stormwater pond** or **infiltration device** may result in revocation of the monitoring waiver.

Part I. Requirements for a Benchmark Monitoring Waiver for **Infiltration Devices**

Unless specifically prohibited from obtaining a Benchmark Monitoring Waiver under the sector or subsector requirements of Part VII, a Benchmark Monitoring Waiver is authorized for **infiltration devices** that are operated in accordance with the applicable requirements of the permit, including this Appendix. For **infiltration devices** that meet the requirements of a Benchmark Monitoring Waiver, bypasses or overflow of **stormwater** from storm events that exceed the Benchmark Monitoring Waiver design capacity (specified in this Appendix), are not required to be monitored for benchmark parameters. (Note that effluent limit monitoring is not exempt from monitoring.) To obtain a Benchmark Monitoring Waiver, the **Permittee** must comply with the following terms and conditions which shall be considered the least stringent acceptable values for obtaining a Benchmark Monitoring Waiver:

A. Design Requirements for a Benchmark Monitoring Waiver for **Infiltration Devices**

Infiltration devices shall be designed consistent with accepted engineering practices. Designs shall be approved by a professional engineer or other licensed professional. Accepted practices are generally described in the applicable portions of the Minnesota **Stormwater** Manual (Chapter 12-8 and other parts). Other applicable technical sources can be used as appropriate. The design shall meet the following minimum requirements for a Benchmark Monitoring Waiver:

1. **Infiltration devices** shall be designed and operated to infiltrate at a long term expected rate of no less than 0.2 inches per hour to no greater than 1.63 inches per hour. (See the Minnesota **Stormwater** Manual for detailed information on soils and long term versus perk test or infiltrometer measurements).

2. The **infiltration device** shall provide, at minimum, a storage volume that will contain the entire volume of runoff to the **infiltration device**, up to and including the 2-year, 24-hour storm event.

3. **Infiltration devices** shall infiltrate the design storage volume (which may be equal to or greater than the runoff from the 2 year event) within 48 hours at the long term

infiltration rate. The calculated design volume of runoff shall be based on United States Weather Bureau Technical Paper 40 (USWB TP 40) and the runoff characteristics of the watershed to the **infiltration device**.

4. **Infiltration devices** shall have suitable soils to provide treatment at the design long term infiltration rate. Testing shall be conducted to ensure that the **infiltration device stormwater** storage area has at least three feet of suitable soils between the **stormwater** storage area and either groundwater, the soil elevation leaving evidence of seasonally saturated soils, or fractured bedrock, whichever is least. Soil testing shall be based on the appropriate testing recommendations of the Minnesota **Stormwater** Manual or equivalent professional sources.

B. Operation and Maintenance

1. The **infiltration device** shall be maintained and operated to meet the design criteria. In addition, outlets, overflows or bypasses shall be designed, maintained and modified as needed to expedite maintenance including periodic cleaning and repair. For example, pre-settling of solids, removal of floatable material, and other maintenance actions which allow the **Permittee** to provide effective long term operation of the **infiltration device**.

2. Newly constructed or up-graded **infiltration devices** shall be visually inspected after all precipitation events for 30 days after initiation of operation, and thereafter in accordance with inspection requirements outlined in Part III.F of the permit or, if applicable, Part VII of the permit, to ensure that infiltration is occurring at the appropriate rate and the device is operating correctly.

3. Appropriate access, equipment, and training for staff must be provided for operation and maintenance of the **infiltration devices**.

4. Permit violations regarding the design, operation, and maintenance of an **infiltration device**, may be grounds for the **Agency** to revoke the Benchmark Monitoring Waiver.

C. Documentation

The design basis for meeting the criteria for a Benchmark Monitoring Waiver under this part must be kept with the **SWPPP**. All design assumptions, operational and maintenance methods, tests, calculations and monitoring shall be kept with the **SWPPP**. Portions of the **SWPPP** that are essential to operations may be summarized with specific references, while design and reference documents must be made available within 72 hours of request.

Part II. Requirements for a Benchmark Monitoring Waiver for **Industrial Stormwater Ponds**

Unless specifically prohibited from obtaining a Benchmark Monitoring Waiver under the sector or subsector requirements of Part VII, a Benchmark Monitoring Waiver is authorized for **industrial stormwater ponds** that are operated in accordance with the applicable requirements of the permit, including this Appendix. For **industrial stormwater ponds** that meet the

requirements of a Benchmark Monitoring Waiver**,** bypasses or overflow of **stormwater** from storm events that exceed the Benchmark Monitoring Waiver design capacity (specified in this Appendix), are not required to be monitored for benchmark parameters. (Note that effluent limit monitoring is not exempt from monitoring, under this part.) To obtain a Benchmark Monitoring Waiver, the **Permittee** must comply with the following terms and conditions which shall be considered the least stringent acceptable values for obtaining a Benchmark Monitoring Waiver.

A. Design Requirements for an **Industrial Stormwater Pond** Benchmark Monitoring Waiver

Industrial stormwater ponds qualifying for a Benchmark Monitoring Waiver shall be designed consistent with accepted engineering practices and approved by a professional engineer or other licensed professional. Generally accepted practices are described in the applicable portions of the Minnesota **Stormwater** Manual (Chapter 12-9 and other parts). Other applicable technical sources can be used as appropriate. The design shall meet the following minimum requirements:

1. The **industrial stormwater pond** must be designed to have a permanent dead storage volume, which is the volume below the normal outlet, that is equal to or exceeds the entire runoff volume to the pond which would result from the 5-year, 24-hour rainfall event (based on USWB TP 40).

2. The **industrial stormwater pond** shall be designed and operated to eliminate scour and re-suspending of sediment at high flows, so that benchmark values will be expected to be met up to the 10-year, 24-hour storm event (event based on USWB TP 40).

3. **Industrial stormwater pond** permanent storage (dead storage below the outlet) volume must be designed to eliminate scour and re-suspension of settled solids for the expected flow velocities. The maximum permanent storage (or dead storage) depth must be adjusted for the site conditions to provide enough sediment storage, and to prevent scour. The depth shall be limited to prevent anaerobic conditions from developing in the pool. The optimum depth in the permanent pool usually varies between 3 feet to 10 feet deep, depending on the site-specific conditions of flow and the nature of the pollutants.

4. Skimmers, screens, or equivalent collection devices shall be incorporated into the outlets so that floatable materials in the **industrial stormwater pond** will not be discharged. Such devices shall be inspected and maintained to prevent clogging or discharge of collected material. Collected materials shall be disposed of properly.

B. Operation and Maintenance

1. The **industrial stormwater pond** shall be maintained and operated to meet design criteria. In addition, outlets, overflows or bypasses shall be designed, maintained and modified, as needed to expedite maintenance including periodic cleaning and repair. For example, pre-settling of solids, removal of floatable material, or other

maintenance actions which allow the **Permittee** to provide effective long term operation of the **industrial stormwater pond.**

2. Newly constructed or up-graded **industrial stormwater ponds** shall be visually inspected after all precipitation events for 30 days after initiation of operation, and thereafter in accordance with inspection requirements outlined in Part III.F of the permit or, if applicable, Part VII of the permit, to ensure that the **industrial stormwater pond** is operating correctly.

3. Access, equipment, and training for appropriate staff must be provided for operation and maintenance of the **industrial stormwater pond**.

4. The **Permittee** shall operate and maintain all **industrial stormwater ponds** as required by this permit, including all applicable specific requirements of this Appendix and any restrictions in the sector or subsector specific requirements of Part VII. Permit violations regarding the design, operation, and maintenance of an **industrial stormwater pond**, may be grounds for the **Agency** to revoke the Benchmark Monitoring Waiver.

C. Documentation

All design assumptions, operational and maintenance methods, tests, calculations and monitoring shall be kept with the **SWPPP.** Portions of the **SWPPP** that are essential to operations may be summarized with specific references, while design and reference documents must be made available within 72 hours of request.

APPENDIX D. SECTORS OF INDUSTRIAL ACTIVITIES AUTHORIZED

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.

Table 5

* 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 ***
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

* 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 ***
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
				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

* 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 ***
				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
				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

* 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 ***
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
				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

* 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 ***
				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
		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

* 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 ***
				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
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

* 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 ***
				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
		J4	Mine dewatering discharges at construction sand and gravel, or industrial sand mining facilities (SIC codes 1442 and 1446)	JNEL4	Construction Sand and Gravel
				JNEL4	Industrial Sand
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

* 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 ***
		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 **Surface Water(s)**, **Stormwater** That Has Directly Contacted Solid Waste	LF2	Any Open Or Closed Non-Hazardous Waste Landfills And Land Application Sites, Which Do Not Discharge To **Surface Water(s)**, **Stormwater** That Has Directly Contacted Solid Waste
		L3	Any Landfill That Discharges To **Surface Water**(s), **Stormwater** That Has Directly Contacted Solid Waste (pursuant to 40 CFR pt. 445, subp. B.)	LF3	Any Landfill That Discharges To **Surface Water**(s), **Stormwater** 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
		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

* 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 ***
		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
				4449	Water Transportation of Freight, Not Elsewhere Classified
				4481	Deep Sea Transportation of Passengers, Except by Ferry
				4482	Ferries

* 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 ***
				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 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 100 tons or less 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
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

* 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 *
				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
				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

* 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 ***
				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
				2251	Women's Full-Length and Knee-Length Hosiery, Except Socks

* 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 *
				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

* 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 *
				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
				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

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Sector	**Sector Description**	**Subsector**	**Subsector Description**	**SIC – Nar. Act. ***	**SIC – Nar. Act. Description ***
				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
				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

* 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 ***
				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
		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

* 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 ***
				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
				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

* 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 *
				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
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

* 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 ***
				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
				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

* 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 ***
				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
				3792	Travel Trailers and Campers
				3795	Tanks and Tank Components
				3799	Transportation Equipment, Not Elsewhere Classified

* 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 *
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
				3845	Electromedical and Electrotherapeutic Apparatus
				3851	Ophthalmic Goods
				3861	Photographic Equipment and Supplies
				3873	Watches, Clocks, Clockwork Operated Devices, and Parts

* 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 *
		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

* 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 ***
				3676	Electronic Resistors
				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

APPENDIX E. DEFINITIONS

1. **"Agency"** means the Minnesota Pollution Control **Agency** or MPCA. (Minn. Stat. § 116.36, subd. 2.)

2. **"Benchmark Monitoring Location"** for purposes of the industrial **stormwater** permit, means the location(s) within the boundary of the **facility** where the **Permittee** will collect **stormwater** samples for the purpose of compliance with the benchmark monitoring requirements of this permit. The **benchmark monitoring location**(s) selected by the **Permittee** shall be in a location that:

   a. Is below the most down-gradient **BMP** from the source of **industrial activity** or **significant materials**, but prior to discharging from the **Permittee's** operational control.

   b. Minimizes or eliminates sampling of **stormwater** from off-site sources (run-on).

   c. Yields a sample that best represents the contribution of pollutants the **Permittee** is required to monitor for in accordance with Part V, and that receives discharge from an area of **industrial activities**, processes, and **significant materials** exposed to **stormwater**.

3. **"Best Management Practices"** or **"BMPs"** means practices to prevent or reduce the pollution of **waters of the state**, including schedules of activities, prohibitions of practices, and other management practices, and also includes treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge, or waste disposal or drainage from raw material storage. (Minn. R. 7001.1020, subp.5.)

4. "**Co-located Industrial Activities"** means any **industrial activities** at a **facility** defined by the **stormwater** regulations at 40 CFR § 122.26(b)(14)(i)-(ix) and (xi), other than the **primary SIC Code** or **narrative activity**.

5. **"Commissioner"** means the **Commissioner** of the Minnesota Pollution Control **Agency** or the **Commissioner**'s designee. (Minn. Stat. § 116.36, subd. 3.)

6. **"Construction Activity"** for this permit includes **construction activity** as defined in 40 CFR pt.122.26(b)(14)(x) and **small construction activity** as defined in 40 CFR pt. 122.26(b)(15). This includes a disturbance to the land that results in a change in the topography, existing soil cover (both vegetative and non-vegetative), or the existing soil topography that may result in accelerated **stormwater** runoff, leading to soil erosion and movement of sediment into **surface waters** or drainage systems. Examples of **construction activity** may include clearing, grading, filling, and excavating. **Construction activity** includes the disturbance of less than one acre of total land area that is a part of a larger **common plan of development or sale** if the larger common plan will ultimately disturb one (1) acre or more.

7. **"Effective Date"** means the date the **Agency** made this permit available for application. The **effective date** is located on the front cover of this permit.

8. **"Effluent Monitoring Location"** for the purposes of this permit means the location(s) within the boundary of the **facility** where the **Permittee** will collect **stormwater** samples for the purpose of compliance with Part VI (Effluent Limit Monitoring Requirements). The **effluent monitoring location**(s) selected by the **Permittee** shall be in a location that:

   a. Is immediately below the most 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.

   b. Yields a sample that represents the contribution of the pollutants the **Permittee** is required to monitor for in accordance with Part VII, and that receives discharge from an area of **industrial activities**, processes, and **significant materials** exposed to **stormwater** that has a numeric effluent limit.

9. **"Facility"** for the purposes of this permit, means land that shares a common border and that has a **stormwater discharge associated with industrial activity** as defined by 40 CFR § 122.26(b)(14) with the discharge having a common **owner/operator**.

10. **"Impaired Water"** means waters identified as impaired by the **Agency**, and approved by the **USEPA**, pursuant to section 303(d) of the Clean Water Act (33 U.S.C. § 303(d)).

11. **"Impervious Surface"** means a constructed hard surface that either prevents or retards the entry of water into the soil and causes water to run off the surface in greater quantities and at an increased rate of flow than prior to development. Examples include rooftops, sidewalks, patios, driveways, parking lots, storage areas, and concrete, asphalt, or gravel roads.

12. **"Industrial Activity"** means the eleven categories of **industrial activity** which are directly related to manufacturing, processing, or raw materials storage areas at an industrial plant, as defined in 40 CFR § 122.26(b)(14)(i)-(xi). Not every **industrial activity** in this definition is eligible for authorization under this permit (e.g. **construction activity**); see Part I.A for eligibility criteria. (Minn. R. 7090.0080, subp.6.)

13. **"Industrial Stormwater Pond"** for purposes of the industrial **stormwater** permit means constructed detention or retention facilities for the treatment of **stormwater** runoff under the requirements of this permit. This includes permanent ponds, dry ponds, flow equalization ponds (followed by other **BMPs**), and constructed wetlands. However, natural **wetlands** (including types 1-8) and other natural **surface water** bodies are not **industrial stormwater ponds**, parts of ponds or pond systems, and cannot be used as **BMP**s for **stormwater** treatment unless mitigated in accordance with applicable state rules.

14. **"Infiltration Device"** for purposes of the industrial **stormwater** permit, means a device to which industrial **stormwater** runoff is diverted, collected, or conveyed for the purpose of infiltration. This includes all man-made and natural infiltration areas to which runoff is

diverted. An infiltration device does not include the parts of the system that diverts, collects, or conveys industrial **stormwater**. Incidental infiltration from conveyances such as swales or ditches, including those with erosion prevention devices such as vegetation, silt fence, or fiber bails, is not an infiltration device. However, swales, ditches, or similar devices constructed with stop logs, ditch excavation for storage or other retention devices, which are for the purpose of increased infiltration, are **infiltration devices**. **Wetlands** (including types 1 through 8) and other natural **surface water** bodies are not **infiltration devices** or parts of **infiltration device** systems, and cannot be used as **infiltration devices**, unless mitigated in accordance with applicable state rules.

15. **"Monitoring Location"** means any **Benchmark Monitoring Location** (including those locations that are part of a representative location) and/or any **Effluent Monitoring Location**.

16. **"Municipal separate storm sewer system or MS4"** means a conveyance or system of conveyances including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains:

    a. owned or operated by a state, city, town, county, district, association, or other public body, created by or pursuant to state law, having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under state law such as a sewer district, flood control district, or drainage district or similar entity, or an Indian tribe or an authorized Indian tribe organization, or a designated and approved management agency under section 208 of the federal Clean Water Act, United States Code, title 33, section 1288, that discharges into **waters of the state**;

    b. designed or used for collecting or conveying storm water;

    c. that is not a combined sewer; and

    d. that is not part of a publicly owned treatment works as defined in Code of Federal Regulations, title 40, section 122.2.

    Municipal separate storm sewer systems do not include separate storm sewers in very discrete areas, such as individual buildings. (Minn. R. 7090.0800, subp. 8).

17. **"Narrative Activity"** means those **industrial activities** as defined by 40 CFR § 122.26(b)(14)(i), (iv), (v), (vii) and (ix).

18. **"No Exposure"** means that all industrial materials or activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snow melt, or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, or waste product. (Minn. R. 7090.0080, subp.9.)

19. **"Non-Stormwater Discharge"** means any discharge not comprised entirely of **stormwater**.

20. **"One Mile"** for purposes of the industrial **stormwater** permit, means a direct horizontal distance of **one mile** measured from any **monitoring location** to the Ordinary High Water Level (Minn. Stat. 103G.005, subd. 14) where the **stormwater discharge associated with industrial activity** enters either an **impaired water**, or any water described in Appendix A of this permit.

21. **"Operator"** is the **person** responsible for the overall operation of an industrial **facility** under Minn. R. pt. 7090.3000. (Minn. R. 7090.0080, subp.10.)

22. **"Owner"** is the **person** who owns an industrial **facility** or part of an industrial **facility** under Minn. R. pt. 7090.3000. (Minn. R. 7090.0080, subp.11.)

23. **"Permittee"** means a **person** or **persons**, firm, or governmental agency or other institution that signs the permit application submitted to the **Agency** and is responsible for compliance with the terms and conditions of this permit.

24. **"Person"** means any human being, any municipality or other governmental or political subdivision or public agency, any public or private corporation, any partnership, firm, association, or other organization, any receiver, trustee, assignee, agent, or other legal representative of any of the foregoing, or any other legal entity, but does not include the **MPCA**. (Minn. Stat. § 116.06, subd. 17.)

25. **"Primary Standard Industrial Classification (SIC) Code"** for the purposes of the industrial **stormwater** permit, is the SIC code associated with the **industrial activity** that generates the greatest revenue. If revenue data is not available, the **owner/operator** shall base the determination on the number of employees engaged in the **industrial activity**. If it is not possible to determine the **primary SIC code** using either of these two methods, the **owner/operator** shall base the determination on the SIC code with the greatest production. The **industrial activity** that generates the greatest revenue, employs the most personnel, or has the greatest production, is the **industrial activity** assigned the **primary SIC code**.

26. **"Significant Discharges"** for purposes of the industrial **stormwater** permit means any industrial **stormwater** discharge that either 1) on or after January 1, 1988, commenced discharge from areas of **industrial activities** and/or **significant materials** greater than 90 acres, or 2) on or after January 1, 1988, discharges from areas of **industrial activities** and/or **significant materials** that have expanded cumulatively by greater than 90 acres.

27. **"Significant Materials"** includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under Section 101(14) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); any chemical the **facility** is required to report pursuant to Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA); fertilizers;

pesticides; and waste products such as ashes, slag, and sludge that have the potential to be released with **stormwater** discharges. When determining whether a material is significant, the physical and chemical characteristics of the material should be considered (e.g. the material's solubility, transportability, and toxicity characteristics) to determine the material's pollution potential. (40 CFR 122.26(b)(12).

28. **"Stormwater"** means **stormwater** runoff, snow melt runoff, and surface runoff and drainage. (Minn. R. 7090.0080, subp.12.)

29. **"Stormwater Discharge Associated with Industrial Activity"** means the discharge from any conveyance that is used for collecting and conveying **stormwater** and that is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program under 40 CFR 122. For the categories of industries identified in this section, the term includes, but is not limited to, **stormwater** discharges from:

    - Industrial plant yards.
    - Immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility.
    - Material handling sites.
    - Refuse sites.
    - Sites used for the application or disposal of process waste waters (as defined at part 401 of this chapter).
    - Sites used for the storage and maintenance of material handling equipment.
    - Sites used for residual treatment, storage, or disposal.
    - Shipping and receiving areas.
    - Manufacturing buildings.
    - Storage areas (including tank farms) for raw materials, and intermediate and final products; and
    - Areas where industrial activity has taken place in the past and significant materials remain and are exposed to stormwater.

    For the purposes of this paragraph, material handling activities include storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, by-product or waste product.

    The term excludes areas located on plant lands separate from the plant's **industrial activities**, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with **stormwater** drained from the above described areas.

Industrial facilities include those that are federally, State, or municipally owned or operated that meet the description of the facilities listed in 40 CFR (b)(14)(i) through (xi), except (x). The term also includes those facilities designated under the provisions of 40 CFR 122.26 (a)(1)(v).

30. **"Stormwater Pollution Prevention Plan"** or **"SWPPP"** means a plan for **stormwater** discharge that includes **facility**-specific activities and actions to, first, identify sources of pollution or contamination at the **facility**, and second, select and implement **BMPs** to eliminate or reduce contact of **stormwater** with **significant materials** that may result in polluted runoff from the **facility**.

31. **"Surface Water or Waters"** for purposes of the industrial **stormwater** permit, means all streams, lakes, ponds, marshes, **wetlands**, reservoirs, springs, rivers, drainage systems, waterways, watercourses, and irrigation systems whether natural or artificial, public, or private.

32. **"Total Maximum Daily Load"** or **"TMDL"** means the sum of the individual **wasteload allocations** for point sources and load allocations for nonpoint sources and natural background, as more fully defined in Code of Federal Regulations, title 40, section 130.2, paragraph (i). A **TMDL** sets and allocates the maximum amount of a pollutant that may be introduced into a **water of the state** and still assure attainment and maintenance of **water quality standards**. (Minn. R. 7052.0010 Subp. 42)

33. **"USEPA"** means the United States Environmental Protection Agency.

34. **"Wasteload Allocation (WLA)"** means the portion of a receiving water's loading capacity that is allocated to one of its existing or future point sources of pollution, as more fully defined in Code of Federal Regulations, title 40, section 130.2, paragraph (h). In the absence of a TMDL approved by EPA under Code of Federal Regulations, title 40, section 130.7, or an assessment and remediation plan developed and approved according to part 7052.0200, subpart 1, item C, a WLA is the allocation for an individual point source that ensures that the level of water quality to be achieved by the point source is derived from and complies with all applicable water quality standards and criteria. (Minn. R. 7052.0010 Subp. 45)

35. **"Water Quality Standards"** means those provisions contained in Minn. R Chapters 7050 and 7052.

36. **"Waters of the State"** means all streams, lakes, ponds, marshes, watercourses, waterways, wells, springs, reservoirs, aquifers, irrigation systems, drainage systems and all other bodies or accumulations of water, surface or underground, natural or artificial, public or private, which are contained within, flow through, or border upon the state or any portion thereof. (Minn. Stat. § 115.01, subd. 22.)

37. **"Wetlands"** are those areas that are inundated or saturated by **surface water** or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

Wetlands generally include swamps, marshes, bogs, and similar areas. Constructed **wetlands** designed for wastewater treatment are not **waters of the state**. **Wetlands** must have the following attributes:

1. A predominance of hydric soils.

2. Inundated or saturated by **surface water** or groundwater at a frequency and duration sufficient to support a prevalence of hydrophytic vegetation typically adapted for life in a saturated soil condition.

3. Under normal circumstances support a prevalence of such vegetation. (Minn. R. 7050.0186, subp. 1a.B.)

ABBREVIATIONS AND ACRONYMS

- BOD_5 - Biochemical Oxygen Demand (5 day test)
- BMP - Best Management Practice
- CERCLA - Comprehensive Environmental Response, Compensation and Liability Act
- CFR – Code of Federal Regulations
- COD- Chemical Oxygen Demand
- CWA – Clean Water Act or the Federal Water Pollution Control Act, 33 U.S.C. §1251 *et seq)*
- DMR - Discharge Monitoring Report
- EPA - U. S. Environmental Protection Agency
- LA - Load Allocations
- MS4 - Municipal Separate Storm Sewer System
- NPDES - National Pollutant Discharge Elimination System
- POTW - Publicly Owned Treatment Works
- SDS – State Disposal System
- SIC - Standard Industrial Classification
- SPCC - Spill Prevention, Control, and Countermeasures

- SWPPP - Stormwater Pollution Prevention Plan
- TMDL - Total Maximum Daily Load
- TSS - Total Suspended Solids
- WLA - Wasteload Allocation