



NPDES/SDS Permit Program

Doc Type: Permit Application

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Purpose: The National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Permit Program regulates stormwater and wastewater discharges to land and surface waters. This application applies to nonmetallic mining and associated operations that have stormwater that comes in contact with pollutants and may also have wastewater from the dewatering of pits and quarries, wash water from washing product or trucks, cooling cutting saws, or other sources.

For more information, please contact Theresa Haugen of the Minnesota Pollution Control Agency (MPCA) at 218-316-3920 or theresa.haugen@state.mn.us.

Permittee name: Permit number: MN

Nonmetallic Mining and Associated Sites by PLS Coordinates

Let this list serve as an Inventory of all sites owned or operated at the same facility. Include the activities and the Public Land Survey (PLS) coordinates for each site. Consider this a comprehensive listing of all the sites you want covered under this permit. For all sites listed below, you must complete pages 3-7 of this application. You only need to complete this inventory once.

Example: JT's Aggregate owns and operates four pits and quarries throughout southern Minnesota. Three of the pits are construction sand and gravel pits, and one is a limestone quarry with a portable hot mix asphalt plant. The company dewateres from two pits in Fillmore County, but is unable to contain everything on site in one of the pits. The remaining pits are able to contain all stormwater on site. The chart below would be filled out as follows:

[illegible]

[illegible]

Complete the following for each site:

Site name: _____

Facility site street/road address (not P.O. Box): _____

City: _____ State: MN Zip: _____ Telephone: _____

Name of contact person at the site: _____

(If different than Facility Operator on Transmittal Form [wq-wwprm7-03] question #5)

Title: _____ Telephone: _____ E-mail: _____

Name of secondary contact person at the site: _____

Title: _____ Telephone: _____ E-mail: _____

Activity Information

- | | Yes | No |
|--|--------------------------|--------------------------|
| 1. Do you dewater from your mine, pit, or quarry to a surface water of the state?
<i>This is only authorized for Construction Sand and Gravel (SIC Code 1442), Industrial Sand (SIC Code 1446) Dimension stone (SIC Code 1411), Crushed and Broken Limestone (SIC Code 1422), Crushed and Broken Granite (SIC Code 1423), and Crushed and Broken Stone (not elsewhere classified, SIC Code 1429) mining and quarrying areas. (All other activities that dewater must obtain an individual permit.) Dewatering means water that is impounded or that collects in the mine and is pumped, drained or otherwise removed from the mine through the efforts of the mine operator.</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Do you dewater from a mine, pit or quarry to a control device?
<i>Control devices include settling ponds, sedimentation basins, and/or infiltration basins. Devices shall be designed consistent with accepted engineering practices to control the pollutants of concern.</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Is the abovementioned control device designed to control a 10-year, 24-hour storm event?
<i>Documentation must be submitted with this application for MPCA to acknowledge the device as controlling mine pit dewatering from a 10-year, 24-hour storm event and for MPCA to dismiss the monitoring requirements in Section 8 of the permit. Designs must be approved by a professional engineer.</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Have you had an overflow from your control device in the last five years?
<i>An overflow can be a result from direct rainfall and/or groundwater seepage. It is only different from mine pit dewatering because it is passive and not removed through efforts of the mine operator.</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Do you discharge stormwater to groundwater? (e.g., Do you infiltrate stormwater to the ground?) | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Do you discharge stormwater to a surface water of the state?
<i>Because of the nature of the industry, if you answered 'yes' to question #4, this question should be 'yes' also. Often the overflow is a result of rainfall or snowmelt. More information is collected in this application under 'Location Identification of Surface Water Discharge' beginning at #18.</i> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Do you have any of the following non-stormwater (also considered wastewater) activities conducted at your site?
<i>Check all that apply.</i> | | |
| <input type="checkbox"/> a. Wash water from Subsector J1 and J2 facilities | | |
| <input type="checkbox"/> b. Wet scrubbers at Subsector D1 facilities | | |
| <input type="checkbox"/> c. Washing trucks, mixers, transport buckets, forms and/or other equipment at Subsector E2 facilities | | |
| <input type="checkbox"/> d. Scale deck wash water | | |
| <input type="checkbox"/> e. Wash water associated with emergency cleaning of mobile equipment and/or cosmetic cleaning of mobile equipment that does not use detergents, solvents, or degreasers | | |
| <input type="checkbox"/> f. Waters used for dust control on crushers, conveyors, and associated equipment | | |

Yes No

8. Is stormwater co-mingled with any of the non-stormwater listed in #7 above prior to discharge?

☐ ☐

If you answered 'yes', then that stormwater is considered non-stormwater, or process wastewater and must be discharged in accordance with wastewater requirements. Therefore, there shall be no surface water discharge and all water must be collected, contain and infiltrate to the ground. The permittee must implement Best Management Practices to prevent contamination of groundwater.

9. Select the Primary Activity and Secondary Activity (if applicable) at the site:

Subsector J1	Primary	Secondary
Construction sand and gravel mining (Standard Industrial Classification [SIC] Code 1442)	<input type="checkbox"/>	<input type="checkbox"/>
Industrial sand mining (SIC Code 1446) ¹	<input type="checkbox"/>	<input type="checkbox"/>
Subsector J2		
Dimension stone (SIC Code 1411)	<input type="checkbox"/>	<input type="checkbox"/>
Crushed and broken limestone mining/quarry area (SIC Code 1422)	<input type="checkbox"/>	<input type="checkbox"/>
Crushed and broken granite mining/quarry area (SIC Code 1423)	<input type="checkbox"/>	<input type="checkbox"/>
Crushed and broken stone mining/quarry area (not elsewhere classified, SIC Code 1429)	<input type="checkbox"/>	<input type="checkbox"/>
Subsector D1		
Hot mix asphalt production areas also known as asphalt paving mixtures and blocks (SIC Code 2951). This includes portable hot mix asphalt plants.	<input type="checkbox"/>	<input type="checkbox"/>
Subsector E2		
Concrete block and brick (SIC Code 3271)	<input type="checkbox"/>	<input type="checkbox"/>
Concrete products other than block and brick (SIC Code 3272)	<input type="checkbox"/>	<input type="checkbox"/>
Ready-mix concrete (SIC Code 3273)	<input type="checkbox"/>	<input type="checkbox"/>

¹If using flotation or acid leaching process(es), you are **not** eligible for this general permit and must apply for an individual permit.

10. Describe completely your stormwater management systems used to control stormwater:

Includes industrial stormwater ponds, sedimentation basins, and/or infiltration devices.

11. Describe completely your wastewater treatment systems:

12. For permit reissuance or modification, note any changes made to either the stormwater or wastewater treatment systems since this permit was last issued (include additional sheets, if needed):

13. How and where are the sediments and sludge removed from the stormwater and/or wastewater treatment systems at the facility disposed?

14a. Does the facility discharge non-contact cooling water (for example, power generation, refrigeration, boilers, etc.)?

This is a non-stormwater discharge and must be infiltrated on site to be eligible for this general permit.

☐ Yes ☐ No If yes, is this once-through or recirculating: _____

14b. Are there any chemical additives to this waste stream? ☐ Yes ☐ No

15. List below all chemical additives that are used or proposed to be used at the facility.

This must include all process reagents, flocculants, biocides, wastewater treatment chemical additives, chlorine or other disinfectants, detergents, cleaning products, chemical dust suppressants, freeze conditioning agents, etc.

Product name	How often added	Where it is used	Average rate of use (weight or volume/day)

Attach Material Safety Data Sheets and complete product labels for each additive. Attach information on the chemical composition, aquatic toxicity, human health, and environmental fate for each proposed chemical additive.

16. What is the source of the intake water supply for the facility?

Intake water supply includes all make-up water supplied to the facility. (Choose one.)

- ☐ Municipal, include city name: _____
- ☐ Groundwater, intake location: _____
- ☐ Surface water, include name: _____

If this is a non-municipal water supply, have you already obtained a Minnesota Department of Natural Resources (DNR) water appropriations permit? ☐ Yes ☐ No ☐ Not applicable

If yes, what is the DNR permit number: _____ DNR permit expiration date (mm/dd/yyyy): _____

Is the intake water supply chlorinated or otherwise disinfected? ☐ Yes ☐ No

17. Has the facility been required to complete an Environmental Impact Statement (EIS) and/or Environmental Assessment Worksheet (EAW)? ☐ Yes ☐ No ☐ Not applicable

If yes, attach a copy of the completed EIS/EAW and note: _____
(Title) _____ Date (mm/dd/yyyy)

18. What is the fate of the sewage generated by the facility?

Examples are septic tank and drainfield, routing to municipal sanitary sewer, portable containment systems, etc.

19. Is this site covered under any other permit? For example, does this site have an Industrial Stormwater Multi-Subsector General Permit (MNR050000) or a Construction Stormwater Permit (MNR100001)? ☐ Yes ☐ No

If yes, please provide permit identification number. This does not include coverage you already may have through this permit (MNG490000).

20. Have you developed a Pollution Prevention Plan for this site? ☐ Yes ☐ No

You must do so prior to submittal of this application. If you have already created one under another version of this general permit, you must update the plan prior to submittal of this application.

Location Identification of Surface Water Discharges

21. Please identify each surface water discharge location at your site. If you answered 'yes' to question #1, #4 (mine dewatering), and/or #6 (stormwater) above, please provide the discharge location.

The point source discharge location is defined as the location where a wastewater or stormwater discharge enters a surface water (not where the pipe leaves the wastewater facility structure). If a pipe extends out into a river or lake, the location is identified where the pipe leaves the shore and enters the body of water. If the discharge is to a tile line or storm sewer, the location is identified where the tile line or storm sewer enters a surface water. If the discharge is into an open ditch or ravine, the location is identified as the point where the discharge leaves the pipe and enters the open ditch. Examples include "to Twin Lakes", "to unnamed wetlands adjacent to Black Lake", "to a storm sewer to the Cottonwood River", or "to an unnamed ditch to the Sunrise River". For new facilities, enter as much information as available and provide a name or description for the Station ID.

Station ID (if applicable): _____

Type of discharge: _____
(i.e., pit site dewatering, stormwater runoff, overflow from control device)

Average discharge flow rate: _____
(Flow rates are not necessary for discharges that solely consist of stormwater runoff.)

Maximum discharge flow rate: _____

Flow duration and frequency:
Month of flow: _____ Days/week: _____ Hours/day: _____

Complete the table for each surface water discharge point. If this is an existing facility, refer to the current NPDES/SDS Permit for Station ID. For new facilities, enter as much information as available. If more space is needed for additional stations, attach additional pages.

Station ID: SD

Township (26-71 or 101-168)	Range (1-51)	Section (1-36)	¼ Section (NW, NE, SW, SE)	¼ of ¼ Section (NW, NE, SW, SE)
T N	R <input type="checkbox"/> E <input type="checkbox"/> W			
Latitude	Longitude	Datum	Coordinate Collection Method	Date Coordinate Collected

Receiving water name:

A datum for Latitude/Longitude and Universal Transverse Mercator (UTM) should be specified. For latitude/longitude coordinates, this will either be NAD83 or WGS84 (the default on most GPS units). NAD83 is preferred.

For latitude/longitude indicate the method of collection and the date of collection. Methods of collection include:

- GPS – Survey Quality
- GPS – Recreational Receiver WAAS enabled (Real Time Differential Corrected)
- GPS – Recreational Receiver Uncorrected
- GPS – Unknown
- Digitized – Web Map Google / Yahoo / Microsoft
- Digitized – Digital Raster Graph (DRG) (USGS 7.5 min topographic map 1:24,000 scale)
- Digitized – Digital Ortho Quad (DOQ) (USGS aerial photo 1:24,000 scale)

Surface water discharge location example:

Station ID: SD 1

Township (26-71 or 101-168)	Range (1-51)	Section (1-36)	¼ Section (NW, NE, SW, SE)	¼ of ¼ Section (NW, NE, SW, SE)
T 109 N	R 28 <input type="checkbox"/> E <input checked="" type="checkbox"/> W	5	NW	NW
Latitude	Longitude	Datum	Coordinate Collection Method	Date Coordinate Collected
44.271062	-94.180317	NAD83	DOQ (aerial photo)	4/24/2009

Receiving Water: County Ditch 4

	Yes	No
22. Do you dewater to any of the following receiving waters? <i>If the answer is yes to any, you are not eligible for a general permit and must apply for an individual permit.</i>		
a. Designated Outstanding Resource Value Waters (ORVW)? (Defined in Minn. R. 7050.0180 and listed in Minn. R. 7050.0470)	<input type="checkbox"/>	<input type="checkbox"/>
b. DNR-posted fish-spawning areas?	<input type="checkbox"/>	<input type="checkbox"/>
c. DNR-designated trout waters? Trout waters locations are listed in Minn. R. 6264.0050, subp. 1 and 3	<input type="checkbox"/>	<input type="checkbox"/>
23. Do you discharge stormwater to any of the following? <i>If the answer is yes to any, the permit has specific requirements for your discharge. See Section 3 of the permit to insure you are able to meet these requirements. If not, an individual permit may be necessary.</i>		
a. Within 2000 feet of an ORVW?	<input type="checkbox"/>	<input type="checkbox"/>
b. Within 2000 feet of a DNR-designated Trout Stream?	<input type="checkbox"/>	<input type="checkbox"/>
c. Within 1 mile of an impaired water?	<input type="checkbox"/>	<input type="checkbox"/>

24. Provide representative results from tests taken during the most recent discharge for each of the following in the projected discharge. If more than one discharge point is involved, attach additional copies as needed. (Required under Minn. R. 7001.1050 and 7001.1060)

	Minimum	Maximum
Temperature (degrees Fahrenheit)		
pH		
Total suspended solids (TSS) maximum (mg/L)		
Total phosphorus maximum (mg/L)		
Other potential pollutants		

(for example, metals, ammonia, nitrate, nitrite, salts, residual chlorine, fluoride, oil and grease, polychlorinated biphenyls, phenols, polynuclear aromatic hydrocarbons, and/or volatile organic compounds)

Please clearly indicate with the test results the specific dates, locations and methods of sampling. The time when you sample must be representative of the projected discharge wastewater quality.

Minnesota Department of Health (MDH) rules require that all laboratories conducting wastewater tests be certified. To help ensure the precision and accuracy of water quality test results, the MPCA accepts laboratory data only from MDH-certified laboratories. (Dissolved oxygen, pH, temperature and total residual chlorine analyses do not need to be done by a certified laboratory; these analyses shall be conducted as soon as practicable after sample collection and no later than one hour after collection.)

Indicate the name of the laboratory that will analyze your samples: _____

Indicate the MDH Laboratory Certification No. for this laboratory: _____

Site Diagram and Map

25. Attach a site map showing:

- location of all discharge points
- location of all overflow points from control devices
- directions of stormwater runoff (including stormwater that is contained/infiltrated on site).

Instructions

The National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Permit Program regulates stormwater and wastewater discharges to land and surface waters. This application applies to nonmetallic mining and associated operations that have stormwater that comes in contact with pollutants and may also have wastewater from the dewatering of pits and quarries, wash water from washing product or trucks, cooling cutting saws, or other sources.

All permittees must complete the *Transmittal Form* (wq-wwprm7-03). Facilities applying for Nonmetallic Mining and Associated Activities General Permit must complete questions #1-5, 9-11, Application Fees and Certification sections of the *Transmittal Form*. Otherwise, all questions are addressed in this application. The *Transmittal Form* (wq-wwprm7-03) only needs to be completed once regardless of the number of sites.

This is a multi-site permit. Many of the industries covered under this permit may have more than one location where they conduct the permitted activities. Only one *Transmittal Form* is needed, but **for each site (pit, quarry, or production site), a separate application must be completed.** All activities may be covered under one permit, but to correctly assess the discharges, Minnesota Pollution Control Agency (MPCA) needs information about each site.

All activities include construction at the facility and materials stored in compliance with Minn. R. 7035.2860 (Beneficial Use of Solid Waste). Any recycling and storage of these materials must meet the requirements of Minn. R. 7035.2855 (Solid Waste Storage Standards), including uncontaminated asphalt, concrete rubble and other materials for recycling or reuse.