Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, MN 55155-4194

Municipal and Industrial Pond Attachment

NPDES/SDS Permit Program

Doc Type: Permit Application

The National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Permit Program regulates wastewater discharges to land and surface waters. This attachment applies to municipal and industrial facilities with a pond system (i.e. primary, secondary, polishing, equalization, anaerobic, contaminated runoff, etc.).

Complete the attachment by typing or printing in black ink. Attach additional sheets as necessary. For more information, please contact the Minnesota Pollution Control Agency (MPCA) at: In Metro Area: 651-296-6300 or Outside Metro Area: 800-657-3864.

Permittee name: _____ **Permit number:** MN _____

Geology/Hydrogeology Information

1. Provide a description of the soil beneath or in the vicinity of the ponds. Use information from soil surveys or from existing soil borings or well logs if available. (Ex.: 8 feet (ft.) of fine sand underlain by 10 ft, of silty clay.)

_____

_____

2. What is the depth below ground surface of the water table at the pond site? _____ ft.

   How many feet below ground surface is the bottom of the pond? _____ ft.

3. What is the depth to bedrock at the pond site? ☐ <10 ft. ☐ 10-20 ft. ☐ 20-50 ft. ☐ >50 ft.

4. What is the bedrock type (Ex.: limestone, sandstone, etc.)? _____

5. What is the proximity to the ponds of private water supply wells? ☐ < ¼ mile ☐ ¼ - 1 mile ☐ >1 mile

6. Describe the approximate number, type and depth of private water wells in the general vicinity of the ponds (3 mile radius). (Ex.: most (#?) wells generally drilled to greater than 50 ft., however, several shallow (20 ft.) sand point wells also present.)

_____

_____

7. Are the ponds located in a designated Wellhead Protection Area? ☐ Yes ☐ No

8. Are monitoring wells present at the pond site? ☐ Yes ☐ No

   If yes, please submit a topographic or equivalent map showing well locations with respect to the pond system.

   Have any wells shown adverse impacts (Ex.: high nitrate or chloride concentrations)? ☐ Yes ☐ No

   If yes, please describe the adverse impacts: _____

_____

_____

9. What is the proximity to the ponds of any nearby surface waters? (Ex.: Minnesota River located ¼ mile to the north.).

_____

_____

Pond Information

10. Please indicate the types of ponds that are present at the facility. (Check all that apply)

☐ Primary	☐ Secondary	☐ Polishing	☐ Equalization
☐ Aerated	☐ Anaerobic	☐ Cooling	☐ Contaminated runoff
☐ Irrigation holding	☐ Ash handling	☐ Other: _____	

11. Please complete the following table for each pond at the facility.

Pond type	Max operating depth (ft.)	Min operating depth (ft.)	Mean operating depth (ft.)	Acreage at mean operating depth	Days of detention time (design flow)	Year each pond was constructed

12. What is the source of the acreage information in question 11 above? (Ex: as built plans and specs, engineering survey, etc.)

13. Has the pond system ever been repaired or upgraded? ☐ Yes ☐ No If yes, what year? _____

If yes, please describe what the upgrade included: _____

14. Has the pond system ever been dredged? ☐ Yes ☐ No If yes, what year? _____

If yes, please describe the method of dredge material disposal: _____

15. What type of pond liner is present? ☐ Clay ☐ Synthetic/Vinyl ☐ Bentonite ☐ Other: _____

16. Is the pond system ever operated at a depth so that the freeboard is less than 3 feet? ☐ Yes ☐ No

If yes, please describe the situation and identify how often it occurs: _____

17. What is the relationship between current wastewater flows and pond designed hydraulic capacity?

☐ below capacity ☐ at or near capacity ☐ above capacity

18. Are there any drain tiles (designed or pre-existing) located in the vicinity of or beneath the pond system? ☐ Yes ☐ No

If yes, please submit a topographic or equivalent map showing the drain tile locations and a description of each. (The map and description should include but not be limited to: the drain tile location in relation to the pond system; the drain tile location in relation to the irrigation field *[if applicable*]; each drain tile discharge location; and, each discharge location station identification code *[if applicable]*.)

19. Please list the calendar month total influent and effluent flow in million gallons for each of the past 12 months (*not applicable for municipal facilities*).

	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sept.	Oct.	Nov.	Dec.
Influent												
Effluent												

20. What is the average annual influent $CBOD_5$? _____ mg/L

21. Are there known or potential sources of toxic pollutants (metals, Volatile Organic Compounds [VOCs] such as, trichloroethylene, chloroform, methyl tert-butyl ether [MTBE], benzene, etc.)? ☐ Yes ☐ No

If yes, please describe: _____

22. Is the pond system located in karst topography? ☐ Yes ☐ No

If yes and if your facility is listed in the 1993 Administrative Order requiring the preparation of a contingency plan, please ensure your facility has an updated contingency plan on file.

Review the attachment and ensure all requested items are submitted with this attachment.
Please make a copy for your records.
Refer to the *Transmittal Form* for mailing instructions.