



**Minnesota Pollution
Control Agency**

520 Lafayette Road North
St. Paul, MN 55155-4194

Water Treatment Residual Wastes Application

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 application applies to municipal and industrial water treatment facilities.

Complete the application 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.

Facility Information

1. **Permittee name:** _____ **Permit number:** MN
2. Water treatment operator: _____
Mailing address: _____
City: _____ State: _____ Zip code: _____
Office phone: _____ Cell phone: _____ E-mail: _____
Minnesota Department of Health (MDH) certification number (water supply system): _____
3. Is any of the treated water used to supply a public water system? ☐ Yes ☐ No

Treated Water Use

4. Indicate the treated water distribution type:

- ☐ Public water supply drinking water
☐ Non-public water supply water
☐ Both

If both distribution types are used include use percentages for each type of distribution:

Public water supply: _____
Non-public water supply: _____

Facility Type

5. What is/are the Standard Industrial Classification (SIC) code(s) which best reflect the principal products or services provided by the facility?

Municipal service districts and public utility facilities primarily engaged in distributing water for sale for residential, commercial, and industrial uses fall under SIC code 4941. **If that is the applicable SIC code, skip Questions 6 and 7.**

6. What is/are the average production/consumption rates at which this/these activities occur? _____
7. What is/are the maximum production/consumption rates at which this/these activities occur? _____

The information for questions 1-3 must be projected for the next five years, since the Minnesota Pollution Control Agency (MPCA) permit will likely cover this period. The SIC code classification was developed by the U.S. Department of Commerce to classify facilities by their economic activities. SIC codes are commonly used on federal tax forms and unemployment insurance information provided to the Minnesota Department of Jobs and Training. If you do not know the four-digit SIC code number for your facility, please consult the *Standard Industrial Classification Manual*, which is available at http://www.osha.gov/pls/imis/sic_manual.html.

Production/consumption rates should be expressed as, for example, "100,000 lbs/day of milk", "600 wafers/month of integrated circuits", "5100 bbls/day of fuel oil", "23,000 cans/week of canned poultry."

Summary Information

8. Please give a brief description of your water treatment facility:

9. List all individual groundwater, surface water and interconnection sources that supply raw water to the treatment system. For each individual source identify use status. Indicate well/source water locations on topographic map.

| Raw Water Source (ex. well numbers – MDH and/or facility reference, surface water body) | Use Status (ex. active use, emergency use, standby, seasonal use or peak use) |
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10. Have you obtained a Minnesota Department of Natural Resources (DNR) water appropriations permit(s) for this/these water supply/supplies? ☐ Yes ☐ No If yes, complete a. – d. below:

- a. If yes, what is/are the DNR permit number(s)? _____
- b. DNR permit expiration date(s)? _____
- c. What are the DNR authorized annual appropriation limits (in million gallons per year)? _____
- d. Are you proposing, or have you proposed within the past five years, to increase the DNR-authorized annual appropriation limits? ☐ Yes ☐ No If yes, please explain: _____

11. What is the total annual average design finished water production of the water treatment facility in gallons per day?

This is a total of all components of the treatment system (ex. RO, media filters, etc). _____ gallons per day

12. What is the total peak/maximum daily design finished production capacity of the water treatment facility in gallons per day?

This is a total of all components of the treatment system (ex. RO, media filters, etc). _____ gallons per day

13. Are there any known raw water (groundwater, surface water, interconnection source) contaminants (ex: radium, arsenic, etc.)?

☐ Yes ☐ No If yes, please explain: _____

14. Name of laboratory that analyzes your discharge samples: _____

MDH certification number: _____

15. If the facility is currently covered under an NPDES/SDS permit, has the facility been in compliance with the permit limits during the past five years? ☐ Yes ☐ No If no, please explain: _____

Facility Type

16. List below all chemical additives that are used or proposed to be used at the facility. This must include all process reagents, flocculants, biocides, water treatment chemical additives (for example, chlorine, chloramines, potassium permanganate, softener salts, alum), polymers, pH adjustment chemicals, antiscalants, brine solutions, etc.

| Chemical | Purpose | Point of addition (e.g., to raw water supply, at greensand filter, before RO unit #2, etc.) | Amount/ frequency/ duration of addition (continuous, or, e.g., 13.5 gal/3 hours, once every 2 weeks) | Average rate of use (weight or volume per time) | Maximum rate of use (weight or volume per time) |
|----------|---------|--|---|---|---|
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You must attach complete information on chemical composition, aquatic toxicity, human health, and environmental fate for each proposed chemical additive (attach Material Safety Data Sheets [MSDS] and complete product use and instruction labels for each additive). This includes the commercial and chemical names and Chemical Abstract Survey (CAS) number for all ingredients. If the MSDS does not include the complete information on chemical composition, including percentages for each ingredient totaling to 100 pct, contact the supplier to have this information provided.

General Permit Application Information

All permit applications are reviewed for general permit qualification when the water treatment general permits are up for reissuance. Those who qualify will be notified of acceptance. Only domestic water treatment facilities qualify for inclusion in the general permits.

Attachments

- ☐ **Media Filter Attachment:** If a media filter is used for water treatment (ex. sand filter) complete the *Media Filter Attachment*.
- ☐ **Softening Treatment:** if softening treatment is used for water treatment (ex. lime or ion-exchange) complete the *Softening Treatment Attachment*.
- ☐ **Membrane Filtration:** If membrane filtration is used for water treatment (ex. reverse osmosis or ultra filtration) complete the *Membrane Filtration Attachment*.

Review the application to ensure all requested items are submitted with this application.

Please make a copy for your records

Refer to the Transmittal Form for mailing instructions.