



Requirements for Vegetative Pests and Algae Control Checklist

Pesticide NPDES Permit Program
National Pollutant Discharge Elimination System (NPDES)

Doc Type: Permitting Checklist

Instructions: This checklist provides a summary of permit requirements – be sure to read your permit for complete details and responsibilities. Consider printing this page and using it as an easy-reference checklist.

Useful information is available: See U. S. Environmental Protection Agency's (EPA) *Final Pesticide Permit Fact Sheet* at http://www.epa.gov/npdes/pubs/pgp_final_factsheet.pdf for control measure designs and case studies.

If you are treating for vegetative pests or algae and are required to submit a Notice of Intent [refer to Step 2 on the Minnesota Pollution Control Agency (MPCA) website at <http://www.pca.state.mn.us/mvric7f>], you must meet the following requirements

1) Identify the Problem

Prior to the first pesticide application and at least once each calendar year during which you will have a discharge, you must do the following for each pest management area.

- Identify areas with plant pests or algae problems.
- Characterize the extent of the problems. This could include water use goals not being met (e.g., wildlife habitat, fisheries, vegetation, or recreation).
- Identify target plant pests or algae.
- Identify factors that may be causing or contributing to the problems.
- Establish past or present plant pest or algae densities to serve as action thresholds for implementing pest management strategies. Action thresholds help determine the need and proper time for action.
- If there are no data for your pest management area in the past calendar year, use other available data as appropriate to meet the above conditions.

2) Evaluate Pest Management Strategies and Minimize Discharges

- Implement control measures that minimize or eliminate discharges of pesticides to waters of the state. See pages 77-82 of the EPA's Final Permit Fact Sheet for control measure designs and case studies. Consider pesticide and non-pesticide strategies, such as:
 - No action
 - Prevention (most effective control measure, ex: cut off primary pathways)
 - Cultural methods (ex: altering habitat to make it unsuitable)
 - Mechanical/physical methods (ex: dewatering, pressure washing, hand or machine removal, abrasive scrubbing, etc.)
 - Biological control (ex: introduction of diseases, predators, or parasites)
 - Pesticides

Depending on the management strategy, a Minnesota Department of Natural Resources (DNR) permit may be required. Prior to implementing a control measure, contact DNR at 651-259-5100 or find information on their website at <http://www.dnr.state.mn.us>.

- Use the lowest effective amount of pesticides and application frequency needed to control the pest while remaining in compliance with the label.
- Use appropriate pest management measures, such as manufacturer's specifications, industry standards, recommended industry practices, and other prudent provisions to control the pest and minimize the discharge.

3) Pesticide Use

If a pesticide is selected for managing vegetating pests or algae, you must:

- Conduct surveillance of the pest management area before each pesticide application to determine when action thresholds are met.
- Apply the pesticide only when the action thresholds have been met.

4) Report Adverse Incidents

Refer to Step 6 on the MPCA website at <http://www.pca.state.mn.us/zihyc83> for more detailed reporting information. If you are aware or are made aware of an Adverse Incident – such as distressed or dead plants or animals – which may be the result of your pesticide application, you must:

- Immediately notify the Minnesota Duty Officer at 651-649-5451 or 800-422-0798.
- Submit an *Adverse Incident Report* within 15 days. The MPCA has developed an *Adverse Incident Report* form for you to use (found on the MPCA website at <http://www.pca.state.mn.us/publications/wq-wwprm9-02.doc>).
- If you determine that the adverse incident was not a result of your pesticide application, submit a justification letter or email to the MPCA within 15 days.

Note: These Adverse Incident reporting requirements are in addition to those required by Federal Insecticide, Fungicide, and Rodenticide Act.

5) Keep Records

You must keep the following records at the address submitted on the Notice of Intent. The information must be documented within 15 days of pesticide application and must be retained for five years. An asterisk indicates information that is also required in the Annual Report (refer to Step 7 on the MPCA website at <http://www.pca.state.mn.us/qzqhc84>).

- A copy of the Notice of Intent submitted to the MPCA.
- Your assigned permit tracking number.*
- Any correspondence exchanged between you and the MPCA.
- Records of the acres treated to demonstrate if your discharge exceeds the Threshold(s).
- A copy of any Adverse Incident Reports.*
- Rationale for any determination that reporting of an Adverse Incident was not required.
- Target pests identified.*
- Pest density prior to pesticide application.
- Water bodies, either by name or by location, to which you discharged pesticides. Consider recording latitude and longitude, too, since it is required on the Annual Report.*
- Quantity of each pesticide product applied to each treatment area.
- Whether visual monitoring is conducted and if not, why not.
- Any unusual or unexpected effects on non-target organisms.
- Documentation of equipment cleaning, calibration, and repair (only if Decision-maker is also Applicator).

The following records kept by the applicator are required by the Minnesota Department of Agriculture and by this permit. If application is done by a for-hire applicator, the applicator is required to give you a copy of the records.

- Name of applicator (individual and company), including license number and company address.
- Pesticide application dates and times.
- Brand name of the pesticide, the EPA registration number, and dosage used.*
- Location of the site where the pesticide was applied.*
- Number of units treated, such as acres.*
- Temperature, wind speed, and wind direction at time of each pesticide application.

*Also required in the Annual Report (refer to Step 7 on the MPCA website at <http://www.pca.state.mn.us/qzqhc84>).

Large Entities, defined as public entities that serve a population of greater than 10,000 or private enterprises that exceed the Small Business Administration size standard, must keep the following additional records:

- A copy of your Pesticide Discharge Management Plan (PDMP), including any modifications made.
- A copy of your Annual Reports submitted to the MPCA.
- Action Thresholds.
- Methods and/or data used to determine that the Action Thresholds have been met.
- Documentation of any changes made and corrective action taken (see below for more information).

6) Make Changes

- If any of the following situations occur, make changes to ensure the situation is eliminated and will not be repeated in the future:
 - You discover you are using more pesticides than necessary or are applying them more often than needed to control the pest.
 - Your equipment is not being maintained regularly (applies to Applicators only).
 - You report an Adverse Incident.
 - A spill or leak occurs.
 - You become aware, or MPCA concludes, that your control measures are not sufficient for the discharge to meet applicable water quality standards.
 - An inspection or evaluation of your activities reveals that changes are necessary.

Within 15 days of becoming aware of the situation, document the situation and the planned corrective action. Documentation must include the following information:

- Date the problem was identified.
- Brief description of the situation that triggered the need for corrective action.
- Brief description of how the problem was identified, how you learned of the situation, and date you learned of the situation.
- Summary of corrective action taken including date started and date finished or expected to be finished.
- Measures taken to prevent reoccurrence of such a problem, including whether changes were made to the PDMP as a result of the problem (applies to Large Entities only).
- If the discharge did not meet Water Quality Standards, include any ambient monitoring results that were used to make this determination.

7) Requirements for Large Entities that Exceed the Threshold(s)

Refer to Step 5 on the MPCA website at <http://www.pca.state.mn.us/wfhyc82>.