



STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

**PESTICIDE APPLICATION
TO SURFACE WATERS OF THE STATE OF MICHIGAN**

Permits are required by Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), and Part 33, Aquatic Nuisance Control, of the NREPA (Part 33).

**GENERAL PERMIT NUMBER ANC9420000 AQUATIC NUISANCE CONTROL ACTIVITIES
FOR CERTAIN NON-NATIVE INVASIVE EMERGENT AND FLOATING-LEAF PLANTS**

In compliance with the provisions of Part 33 of the NREPA, pesticides are authorized to be applied to waters of the state (waterbody) for the control of invasive plants in accordance with the requirements and conditions set forth in this Aquatic Nuisance Control General Permit.

The applicability of this General Permit shall be limited to chemical treatment of certain non-native, invasive emergent and floating-leaf aquatic plants where the treatment will not negatively impact human health and will have no more than minimal short-term adverse impacts on the natural resources and environment.

In order to have authorization to chemically treat non-native plants rooted or floating in waters of the state under this General Permit, the permittee must be issued a Certificate of Coverage (COC) by the Michigan Department of Environment Quality (DEQ). The following information will be identified in the COC:

- COC number
- date effective/issued
- expiration date
- permittee name and address
- waterbody name and location where chemical treatment is authorized
- an approved treatment map specifying where treatment will take place

The terms and conditions of this General Permit shall apply to the permittee for the identified waterbody on the effective date of a COC issued by the DEQ.

All submissions and notifications to the DEQ as required by this General Permit shall be accomplished through the MiWaters permitting database. General questions about this General Permit may be directed to the staff of the Aquatic Nuisance Control Program (ANC), Permits Section, Water Resources Division (WRD), located at DEQ, P.O. Box 30458, Lansing, MI, 48909-7958, telephone 517-284-5593, or e-mail at deq-wrd-anc@michigan.gov.

This permit was issued on February 4, 2016. The provisions of this General Permit are severable. This permit shall expire on **December 31, 2019.**



Sylvia N. Heaton, Chief
Lakes Michigan and Superior Permits Unit
Water Resources Division

Section A. Qualified Sites

A site qualifying for approval to be chemically treated under this General Permit must meet both of the following criteria:

1. The area of impact at the time of chemical treatment has standing water or is located below the ordinary high-water mark of the Great Lakes (Lakes Erie, Huron, Michigan, and Superior) or connecting waters.
2. The target for selective chemical control is one or more of the plants listed in the table titled "Non-native Species approved for chemical treatment under the ANC General Permit." The list is available at www.michigan.gov/anc, "Applications & Permit Information," "General Permits and Pre-Approved Lists of Specific Waterbodies Eligible for Certificates of Coverage (COC)," "Non-native Species Approved for chemical treatment under the ANC General Permit."

Section B. Authorizations and Coverage Provisions

1. Authorized Areas

Chemical treatment for control of non-native invasive emergent plants is authorized only to qualified sites as defined by this General Permit, specified by the issued COC, and identified on the approved treatment map(s) on file with the DEQ, or through an expansion due to an infestation of an adjacent area in accordance with Section 324.3311 of Part 33.

Areas where chemical treatment for control of non-native invasive emergent plants is undertaken must be either under the legal control of the permittee or the party(ies) who has/have granted the permittee permission to treat or otherwise under legal control as specified in Section 324.3308 of Part 33.

2. Chemical Application

The permittee shall comply with this permit and all pesticide label instructions to protect self, others, and the environment. The label is provided with the pesticide container. It explains how to use the pesticide safely, and effectively, and may suggest ways to avoid unintended impacts to human health and the environment. Read and understand the label before mixing or applying any pesticide. Most labels list a toll-free number for consumers. Pesticide labels are federally-approved legal documents and their requirements are enforced under both federal and state laws. Non-compliance with the label is a violation of this permit.

The permittee may apply only those specific chemical products that are approved by the DEQ and listed in the chemical table titled "Chemicals approved for use under the ANC General Permit for Certain Non-Native Invasive Emergent and Floating-leaf Plants." This list is available from the ANC program upon request or at www.michigan.gov/anc, "Applications & Permit Information," "General Permits and Pre-Approved Lists of Specific Waterbodies Eligible for Certificates of Coverage (COC)," "Chemicals approved for use under the ANC General Permit for Certain Non-Native Invasive Emergent and Floating-leaf Plants." The necessary application rate may depend on the target species, the timing of the treatment, the use of additives such as surfactants, and various site conditions (refer to the product label).

Some chemical products may require special applicator certifications. Refer to the federal product label for applicator certification requirements.

3. Treatment Intervals

With few exceptions, the products approved for use in Section B(2) of this General Permit have a minimum length of time required between each treatment in the same area(s) of impact, in accordance with the federal product label. Some of the federal product labels also have limits on the total amount of chemical applied annually per treatment area. Follow the federal treatment interval and annual limits. Further restrictions are outlined in Section B(4) of this permit.

4. General Conditions

This General Permit is intended to allow for the selective chemical control of the non-native invasive emergent and floating-leaf plant species listed in the table titled "Non-native Species approved for chemical treatment under the ANC General Permit." The list of non-native plant species is available at www.michigan.gov/anc, "Applications & Permit Information," "General Permits and Pre-Approved Lists of Specific Waterbodies Eligible for Certificates of Coverage (COC)," "Non-native Species Approved for chemical treatment under the ANC General Permit." The intentional chemical treatment of native species is a violation of this permit.

Multiple products with the same active ingredient are approved by this General Permit. Consult the federally-approved product labels to ensure that the total amount of the active ingredient applied does not exceed the amount allowed by label application rates and/or active ingredient concentration for the target species and site conditions.

Glyphosate and imazapyr products are broad-spectrum herbicides and can damage all types of vegetation. Triclopyr is generally selective against only broad-leaf species such as purple loosestrife; however, it may also affect other species. All herbicides are to be applied in a manner which best targets the invasive species. Refer to the product label requirements and suggestions to optimize selectivity. The applicator is expected to take all practical measures to avoid impacting non-target vegetation and make each treatment as selective as possible, such as through the careful selection of equipment, method of application, and timing of treatment.

With few exceptions, the federal labels for aquatic herbicides require setback distances from active surface water intakes used for potable drinking water. Such intakes exist in inland lakes and along the Great Lakes and connecting waters and serve as drinking water sources for some communities. Refer to the specific product label for setback requirements or guidelines prior to application of these products. Contact the local drinking water authority in proximity to the treatment area if you are unsure about the local drinking water source and location of the intake.

For treatment of all waterbodies in Ingham County, the permittee shall notify the Ingham County Drain Commission a minimum of two (2) working days prior to application of chemical(s). Notify Mr. Randy Abbott by e-mail at dr_abbott@ingham.org and copy the DEQ at deq-wrd-anc@michigan.gov. Notification must include the date, time, and location(s) of the proposed chemical use. The permittee is required to complete the notification in the MiWaters permitting database under "Apps, Requests, Reports," "Compliance Reports." For general questions to the Ingham County Drain Commissioner, contact the office at telephone 517-676-8381 between 8:00 a.m. and 5:00 p.m., Monday through Friday.

Upon receipt of written notification from the DEQ, the permittee may be required to do any of the following:

- Conduct the chemical treatment only when a DEQ representative is present.
- Notify the DEQ a minimum of three (3) working days prior to application of chemical(s).
- Submit an accurate map or written description of the exact locations where each chemical was applied to the DEQ within 24 hours of the completion of each treatment.
- In addition to the normally required notification, also notify other person(s) specified by the DEQ.
- Satisfy additional reporting requirements (instead of, or in addition to, the requirements listed below in Section C).
- Allow the DEQ or its representative to collect a sample of the chemical(s) used before or during any chemical treatment.
- Apply chemicals so that swimming restrictions are not imposed on any Saturday, Sunday, or state-declared holiday.
- Take special precautions to avoid or minimize potential impacts to human health, the environment, and non-target organisms.
- Perform water residue analysis to verify the chemical concentrations in the waterbody according to a frequency, timing, and methodology approved by the DEQ.
- Any other requirements determined by the DEQ as necessary to protect the natural resources or the public health, to prevent economic loss or impairment of recreational uses, to protect non-target organisms, or to help ensure control of the aquatic nuisance.
- Hire a certified pesticide applicator where treatment may affect significant or unique natural resources and/or human health interests.

- Implement other measures to avoid impacting sensitive natural resources, environmental attributes and human health, such as federally or state-listed endangered or threatened species, unique habitats or ecosystems, designated critical dunes, designated environmental areas, critical fish spawning areas, and community drinking water intakes.

5. Notification and Posting Requirements

The ANC statute allows a permittee to expand the area of impact, without a formal permit revision, beyond that authorized in the permit to include *adjacent* (as defined in Section E. Definitions) areas of the same waterbody or treatment area that became infested after the application was submitted. These areas allowed for expansion, without a formal revision, include only infestations of non-native species, as defined in Section E. Definitions. The expansion treatment must use the same chemicals and application rates as those currently authorized in the permit.

The permittee shall submit 1) a notification of an impending expansion treatment, and 2) an expansion report.

1. Notification of impending expansion treatment - If expanding the area of impact for treatment of an infestation, the permittee shall notify the DEQ prior to the initial treatment of the impending expansion area. This notification may be submitted by telephone at 517-284-5593 or by e-mail at deq-wrd-anc@michigan.gov, except in the following two situations:
 - a) The original area of impact authorized on the permit or COC is greater than 100 acres and the proposed expansion exceeds 50 percent of the original authorized area.
 - b) The treatment area expansion is proposed in a waterbody or treatment area that is located within or along the shoreline of the Great Lakes or inland waters in a municipality or township on the list in Appendix A.

In these two situations, the permittee shall complete the ANC Pre-Expansion Notification in the MiWaters permitting database not less than two (2) full business days before the planned treatment of the expanded area. This notification shall include a map of the proposed expansion area(s), a list of chemical(s) to be applied, the date and time of anticipated treatment, and contact information for the on-site chemical applicator. The DEQ has two (2) business days to notify the permittee of any specific concerns about the proposal.

2. Expansion Report Form - The permittee shall complete the ANC Treatment Expansion Report in the MiWaters permitting database no later than 15 days following the initial expansion treatment.

The permittee is required to notify, in writing, an owner of any waterfront property within 100 feet of the area of impact, not less than seven (7) days, and not more than 45 days, before each initial chemical treatment of the treatment season, in accordance with Section 324.3310(h) of Part 33. If the owner is not the occupant of the waterfront property or the dwelling located on the property, then the owner is responsible for notifying the occupant. This notification requirement also applies to each new, or expanded, area of impact added during the treatment season.

Notice of the chemical application must be posted prior to each chemical application, in accordance with Section 324.3310(d) of Part 33. Postings shall also be placed at likely points of public access in non-shoreline treatment areas. Alternate posting locations may be reviewed on a case-by-case basis by DEQ upon written request from the permittee. The written request must explain the necessity for alternative posting locations and a description of the proposed posting locations, including a map for clarification. An alternate posting request shall be submitted, through the MiWaters permitting database as an attachment to the permit application or revision request.

Water use restrictions listed on the label for the specific product(s) used shall be included on the posting sign. In addition, a 24-hour water use restriction for swimming/entry shall be indicated on the signs for all chemical applications. A posting sign template is available at www.michigan.gov/anc, "Application & Permit Information," "Posting Sign."

Section C. Reporting and Record Keeping

1. Environmental Impacts and Time Sensitive Reports

The permittee is required to immediately contact the DEQ-WRD at 517-284-5593 and complete the "ANC Treatment Impact Report" in the MiWaters permitting database under "Apps, Requests, Reports," "Compliance Reports" if any fish or wildlife damage or significant non-target plant or human safety impacts occur in association with any chemical application.

2. Treatment Report

A completed DEQ Aquatic Nuisance Treatment Report Form must be submitted through the MiWaters permitting database no later than November 30 of the year(s) the COC is in effect, even if treatment is not undertaken.

3. Record Retention

The permittee shall keep written or electronic records as required in this permit. These records must be accurate, complete, and sufficient to demonstrate compliance with the conditions of this permit. All records shall be made available within two (2) calendar days to the DEQ upon request, or a timeframe agreed upon by the DEQ and permittee.

The permittee shall obtain and maintain written permission from each bottomland owner in the area of impact for one (1) year from the expiration date of the COC issued under this General Permit, unless exempt under Section 324.3308 of Part 33.

All other records shall be retained for a minimum of one (1) year beyond the expiration date of the COC issued under this General Permit.

Section D. Liability

1. Noncompliance

Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this General Permit. Noncompliance with these terms and conditions, and/or the initiation of other regulated activities not specifically authorized by this General Permit, shall be cause for the modification, suspension, or revocation of the COC, in whole or in part. Further, the DEQ may initiate criminal and/or civil proceedings to correct project deficiencies, protect public health and natural resource, and secure compliance with statutes. Federal pesticide label requirements are incorporated into this permit by reference. Violation of federal pesticide label requirements is considered a violation of this permit.

The issuance of this General Permit does not authorize violation of any federal, state or local laws or regulations, nor does it obviate the necessity of obtaining such permits, including any other DEQ permits or approvals from other units of government, as may be required by law.

Nothing in this permit shall be construed to preclude the initiation of any legal action or relieve any permittee from any responsibilities, liabilities or penalties to which the permittee may be subject under the Endangered Species Act of 1973 (16 U.S.C. § 1531 et seq.) or Endangered Species Protection, Part 365 of the Michigan Act.

2. Property Rights

This General Permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights.

3. Indemnification

The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents and representatives for any and all claims or causes of action arising from acts or omissions of the permittee, or employees, agents, or representatives of the permittee, undertaken in connection with this General Permit. This General Permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.

4. Right of Entry

The permittee shall allow the Department the following actions upon the presentation of credentials:

- To enter upon the permittee's premises where application equipment is located or in which any records are required to be kept under the terms and conditions of this permit
- To copy any records required to be kept under the terms and conditions of this permit
- At reasonable times to have access to waterbodies regulated under this permit
- To inspect equipment for use under this permit
- To sample chemicals, discharges, chemical products, and waterbodies

5. Laboratory and Analytical

When required by this permit or per the pesticide product label, laboratory analytical methods, practices and product or water sampling techniques shall be performed in accordance with standard laboratory guidelines. The permittee shall periodically calibrate and maintain all monitoring instrumentation at necessary intervals to ensure accuracy of measurements. When outside contractors or volunteers are utilized to perform sampling and analysis, the permittee shall ensure that said contractors or volunteers are sufficiently qualified to perform the required sampling and analysis, and that the quality control measures listed above are properly executed.

6. Permission to Treat

The permittee shall obtain authorization to chemically treat the proposed area of impact by obtaining written permission from each property owner who owns bottomlands in the area of impact. Written authorization from all property owners within the area of impact is required for each season that this permit is in effect, prior to chemical treatment. It is the responsibility of the permittee to ensure that all permissions within the permitted treatment area are up to date each season.

Written authorizations shall be maintained for one (1) year from the expiration date of the permit and shall be made available to the Department upon request.

Section E. Definitions

1. Adjacent – an area of impact, contiguous to an approved treatment area, permissible for expansions for an infestation per Section 3311(3) of Part 33.
2. Emergent plants – a plant that is rooted in the sediment with most parts of the plant maintained above the waterline.
3. Floating-leaf plants – plants with leaves and flowers that float on the water surface.
4. Infestation – includes any non-native invasive species that have grown into dense, monotypic stands causing ecological or economic harm.
5. Initial chemical treatment – the first treatment of each season to areas originally permitted, and to each area of expansion or revision, for each year of the life of the permit.
6. Native – an indigenous species to the ecosystem of Michigan prior to European settlement.
7. Non-native invasive – an introduced species that did not occur in Michigan's ecosystem prior to European settlement and where introduction causes or is likely to cause economic, or environmental harm or harm to human, animal and/or plant health.
8. Shoreline – the line marking the edge of a body of water.

APPENDIX A

List of municipalities for the purpose of notification two (2) business days prior to an expansion of chemical treatment due to an infestation of non-native invasive species

Waterbody	Name
Chippewa River	Union Township
Detroit River	City of Ecorse
Detroit River	Grosse Ile Township
Detroit River	City of Wyandotte
Flint River	City of Flint
Huron River	City of Ann Arbor
Indian River	Hiawatha Township
Indian River	City of Manistique
Indian River	Manistique Township
Lake Adrian	City of Adrian
Lake Erie	Frenchtown Township
Lake Huron	Alpena Township
Lake Huron	City of Alpena
Lake Huron	City of Caseville
Lake Huron	City of Harbor Beach
Lake Huron	Lexington Township
Lake Huron	City of Mackinac Island
Lake Huron	Port Austin Township
Lake Huron	Rubicon Township
Lake Huron	Sand Beach Township
Lake Huron	City of St. Ignace
Detroit River	City of Detroit
Lake Huron/Saginaw Bay	Bangor Township
Lake Huron/St. Mary's River	Detour Township
Lake Michigan	City of Bridgman
Lake Michigan	Charlevoix Township
Lake Michigan	City of Charlevoix
Lake Michigan	City of Grand Haven
Lake Michigan	Grand Haven Township
Lake Michigan	Lake Township
Lake Michigan	City of Ludington
Lake Michigan	City of New Buffalo
Lake Michigan/Big Bay de Noc	Fairbanks Township
Lake Michigan/Green Bay	City of Escanaba
Lake Michigan/Green Bay	City of Menominee
Lake Michigan/Green Bay	Menominee Township
Lake Michigan/Little Bay de Noc	City of Gladstone
Lake St. Clair	City of Grosse Pointe Farms
Lake St. Clair	Harrison Township
Lake St. Clair	Ira Township
Lake St. Clair	City of New Baltimore
Lake Superior	Baraga Township
Lake Superior	Carp Lake Township
Lake Superior	Eagle Harbor Township
Lake Superior	Houghton Township

Lake Superior	City of Marquette
Lake Superior/Keweenaw Bay	L'Anse Township
Lake Superior/Scott Bay	Drummond Township
Lake Superior/Upper St. Mary's River	City of Sault Ste Marie
Pine River	City of Alma
Pine River	Arcada Township
River Raisin	Blissfield Township
River Raisin	Deerfield Township
River Raisin	City of Monroe
River Raisin	Riga Township
St. Clair River	City of Algonac
St. Clair River	Clay Township
St. Clair River	East China Township
St. Clair River	City of Marine City
St. Clair River	City of Marysville
St. Clair River	City of Port Huron
St. Clair River	City of St. Clair