



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY  
GENERAL RULE 97 CERTIFICATION OF APPROVAL  
AUTHORIZING BACTERIAL AUGMENTATION IN SURFACE WATERS

In compliance with the provisions of Part 31, Water Resources Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), and Rule 97 (R 323.1097), promulgated thereunder, certain bacterial augmentation products are authorized to be applied to surface waters of the state, generally to control sludge/muck build-up, and/or odor, by individuals submitting a complete Notification of Intent to treat under this certification. The Notification of Intent and instructions for its submittal are available from the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, or on EGLE's [Bacterial Augmentation Web page](#). Notifications of Intent must be submitted at least 30 days before planned application.

This certification **does not** authorize any of the following:

- a) The application of bacterial augmentation products other than those listed as approved on the [Acceptable Michigan Bacterial Augmentation Products list](#).
  - b) The application of bacterial augmentation products to waters in a wastewater treatment system covered by a National Pollutant Discharge Elimination System (NPDES) permit; this includes any portion of a storm water system if covered by an NPDES permit.
  - c) The application of bacterial augmentation products to control algae, weeds, or other aquatic plant growth. Bacterial products used in tank mixes as adjuvants are not authorized under Rule 97 and must be applied for under an [Aquatic Nuisance Control Permit](#).
  - d) The application of bacterial augmentation products to lotic (flowing) waters, vernal woodland pools, roadside ditches, storm water catch basins, or wetlands.
  - e) The application of bacterial augmentation products to lakes, ponds, or retention basins with an outlet, except where noted below (Bullet 7). Outlet means any natural or artificially created watercourse or structure that allows passage of water out of a water body into other surface waters of the state, in an intermittent or continuous flow.
1. A complete Notification of Intent must be submitted by one of the following:
    - a. A person or entity who owns the property to be treated or who is the bottomland owner of the surface water body.
    - b. A lake board established under Part 309, Inland Lake Improvements, of the NREPA.
    - c. A state or local government acting under authority of state law.
    - d. A person who has written authorization to act on behalf of an entity in (a), (b), or (c).

2. The application of bacterial augmentation products shall be conducted according to all pertinent label instructions and additional restrictions identified in this certification, including:
  - a. Aqua-prep Enzyme Solution (Applied Biochemists) - maximum allowable dose is 0.124 gallons per acre-foot.
3. The application of the bacterial augmentation products shall be for the control of sludge/muck build-up, and/or odor.
4. The bacterial augmentation product must appear on the [Acceptable Michigan Bacterial Augmentation Products list](#).
5. The entity submitting the Notification of Intent shall retain records identifying treatment locations, dates of treatment, bacterial augmentation product applicator(s) (if applicable), bacterial augmentation products and amounts used at each location, and any written authorization obtained to comply with Item 1 for **five (5) years** from date of treatment. These records shall be available for EGLE inspection upon request.
6. Treatment may not occur during or prior to an anticipated rain event or any other period that may produce high water or a flood condition.
7. Treatment to lakes, ponds, or retention basins that have an outlet to another water body may occur ONLY when there is no observable flow during treatment or a 200-foot (~60 meter) setback from the outlet is observed.
8. Treatment to lakes with nesting loons (*Gavia immer*), a state threatened species, shall NOT occur within 500 feet of loons' nests between April 15 and August 15.
9. Treatment shall NOT occur within six feet of undeveloped shorelines during June and July in the following counties: Alpena, Barry, Branch, Calhoun, Cass, Cheboygan, Gladwin, Hillsdale, Ingham, Ionia, Kalamazoo, Kent, Leelanau, Lenawee, Macomb, Manistee, Mecosta, Montmorency, Newaygo, Oakland, Presque Isle, Shiawassee, St. Clair, Van Buren, Washtenaw, and Wayne.

The issuance of this certification does not authorize violation of any federal, state, or local laws or regulations, nor does it remove the necessity of obtaining such permits, including any other EGLE permits, or approvals from other units of government as may be required by law. Rule 97 Certification of Approval represents a conclusion, based on the current body of evidence, that the proposed product application is unlikely to cause harm to the native flora and fauna present within the surface waterbody. Product efficacy is not a consideration in determining likelihood of harm.

If any condition of this Certificate of Approval may not be met, the applicant shall immediately notify EGLE, Water Resources Division, District Supervisor, responsible for the area where the treatment occurred. A list of EGLE district boundaries, Water Resources Division District Supervisors, and contact information is provided in Attachment 1.

Upon acknowledgement that a complete Notification of Intent has been received, the applicant is authorized to commence bacterial augmentation product treatment in the

water body identified in the Notification of Intent in compliance with this certification. Acknowledgement of receipt of the Notification of Intent can be determined on the [2026 Authorized Bacterial Augmentation Product Applicants](#) list, or by contacting Ashley Hanas, Water Toxics Unit, Great Lakes Watersheds Assessment, Restoration, and Management Section, Water Resources Division, at 517-855-0199 or [HanasA1@Michigan.gov](mailto:HanasA1@Michigan.gov).

Issued this 16th day of January 2026, by EGLE, and shall expire at midnight, December 31, 2026.



Gary Kohlhepp, Manager  
Great Lakes Watersheds Assessment, Restoration,  
and Management Section  
Water Resources Division

Attachment

This publication is intended for guidance only and may be impacted by changes in legislation, rules, policies, and procedures adopted after the date of publication.

Although this publication makes every effort to teach users how to meet applicable compliance obligations, use of this publication does not constitute the rendering of legal advice.

EGLE does not discriminate on the basis of race, sex, religion, age, national origin, color, marital status, disability, political beliefs, height, weight, genetic information, or sexual orientation in the administration of any of its programs or activities, and prohibits intimidation and retaliation, as required by applicable laws and regulations.

People with disabilities may request this material in an alternate format by emailing EGLE-Accessibility@Michigan.gov or calling 800-662-9278..

**Attachment 1**

**District Supervisor or Representative Contacts**

<b>DISTRICT</b>	<b>CONTACT</b>	<b>COUNTIES</b>
<b>Bay City District Office</b> 401 Ketchum Street, Suite B Bay City, MI 48708-5430	Charles Bauer, Supervisor Surface Water Quality Program <a href="mailto:BauerC@Michigan.gov">BauerC@Michigan.gov</a> 989-439-3845	Arenac, Bay, Clare, Gladwin, Huron, Iosco, Isabella, Midland, Ogemaw, Sanilac, Saginaw, Tuscola
<b>Cadillac District Office</b> 120 West Chapin Street Cadillac, MI 49601-2158	Justin Bragg, Supervisor, Surface Water Quality Program <a href="mailto:BraggJ@Michigan.gov">BraggJ@Michigan.gov</a> 989-370-5819	Benzie, Grand Traverse, Kalkaska, Lake, Leelanau, Manistee, Mason, Missaukee, Osceola, Wexford
<b>Gaylord District Office</b> 22100 West M-32 Gaylord, MI 49735-9282	Joseph Haas, Supervisor, Surface Water Quality Program <a href="mailto:HaasJ1@Michigan.gov">HaasJ1@Michigan.gov</a> 989-330-9252	Benzie, Grand Traverse, Kalkaska, Lake, Leelanau, Manistee, Mason, Missaukee, Osceola, Wexford
<b>Grand Rapids District Office</b> State Office Building, 5 <sup>th</sup> Floor 350 Ottawa Avenue NW, Unit 10 Grand Rapids, MI 49503-2341	Mike Worm, Supervisor, Surface Water Quality Program <a href="mailto:WormM@Michigan.gov">WormM@Michigan.gov</a> 616-350-3395	Barry, Ionia, Kent, Mecosta, Montcalm, Muskegon, Newaygo, Oceana, Ottawa
<b>Jackson District Office</b> 301 East Louis Glick Highway Jackson, MI 49201-1556	Tiffany Myers, Supervisor, Surface Water Quality Program <a href="mailto:MyersT1@Michigan.gov">MyersT1@Michigan.gov</a> 517-243-4915	Hillsdale, Jackson, Lenawee, Monroe, Washtenaw
<b>Kalamazoo District Office</b> 6938 Elm Valley Drive, Unit 106 Kalamazoo, MI 49009-5025	Jennifer Klang, Supervisor, Surface Water Quality Program <a href="mailto:KlangJ@Michigan.gov">KlangJ@Michigan.gov</a> 269-568-2697	Allegan, Berrien, Branch Calhoun, Cass, Kalamazoo, St. Joseph, Van Buren
<b>Lansing District Office</b> P.O. Box 30242 Lansing, MI 48909-7742	Laura Mathews, Supervisor, Surface Water Quality Program <a href="mailto:MathewsL2@Michigan.gov">MathewsL2@Michigan.gov</a> 517-388-3404	Clinton, Eaton, Genesee, Gratiot, Ingham, Lapeer, Livingston, Shiawassee
<b>Marquette District Office</b> 1504 West Washington Street Marquette, MI 49855	Jay Parent, Supervisor Surface Water Quality Program <a href="mailto:ParentJ@Michigan.gov">ParentJ@Michigan.gov</a> 906-236-9611	Alger, Baraga, Chippewa, Delta, Dickenson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon, Schoolcraft
<b>Warren District Office</b> 27700- Donald Court Warren, MI 48092-2793	Melinda Steffler, Supervisor Surface Water Quality Program <a href="mailto:StefflerM@Michigan.gov">StefflerM@Michigan.gov</a> 586-208-5075	Macomb, Oakland, St. Clair, Wayne