

**JOINT PERMIT FOR USE OF AN ALGICIDE, HERBICIDE OR FISH CONTROL CHEMICAL IN
 WATERS OF THE COMMONWEALTH**
PERMIT NO.: 5814801 A-1

In compliance with the provisions of Pennsylvania's Clean Streams Law, as amended, 35 P.S. §§ 691.1 *et seq.*, the regulations at 25 Pa. Code § 91.38, and the Fish and Boat Code, 30 Pa. C.S. § 2504(a)(1),

**Crescent Lake Assoc
 P.O. Box 105
 Meshoppen, PA 18630**

is authorized to use the algicide(s), herbicide(s) or fish control chemical(s) ("pesticides") specified below, in accordance with the conditions and requirements set forth herein.

THIS PERMIT SHALL BECOME EFFECTIVE ON NOVEMBER 1, 2024

Municipality:	Auburn Township	County:	Susquehanna	
Water Body:	Crescent Lake	Total Area:	35	acres
Receiving Stream:	Little Meshoppen Creek	Avg Depth:	6	feet

TREATMENT INFORMATION					
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Copper Sulfate	1.62 lb/acre ft	17.5 acres	6 ft	170 lbs	8
Reward	2 gal/acre	17.5 acres	6 ft	35 gals	2
Glyphosate 5.4	1 gal/acre	5 acres	6 ft	5 gal	2
Aluminum Sulfate	371.42 gal/acre	35 acres	6 ft	13,000 gal	1 Treatment Only
Sodium Aluminate	148.57 gal/acre	35 acres	6 ft	5,200 gal	1 Treatment Only

THIS PERMIT IS ISSUED UNDER THE FOLLOWING CONDITIONS:

1. The permittee shall use pesticides strictly as described by the product label. Chemical applications shall be performed in accordance with the manufacturer's label directions, existing pesticide use laws, and any conditions imposed by local or state agencies.
2. The permittee may treat a standing body of water (i.e., pond, lake, reservoir, etc.) only when there is minimal or no outflow occurring or expected.
3. The permittee shall not treat Fish and Boat Commission approved stocked trout waters between March 1 and June 15.
4. The permittee shall not treat bass waters during the first week of the Commonwealth inland waters harvest season for bass (the first Saturday after June 11 through the following Saturday).
5. If copper sulfate will be used, the permittee shall not apply copper sulfate at a dose exceeding 0.5 mg/L Cu²⁺ or 1.36 lbs CuSO₄/acre-foot where the total hardness of the water body is less than 50 mg/L CaCO₃. Where total hardness exceeds 50 mg/L CaCO₃, the permittee shall not exceed a dose of 1.0 mg/L Cu²⁺ or 2.72 lbs CuSO₄/acre-foot.
6. The permittee shall not treat water bodies containing stocked or wild trout with copper in excess of 0.1 mg/L Cu²⁺.
7. The permittee shall treat water bodies containing very high plant densities separately, in sections, to prevent suffocation of fish. Monitoring of dissolved oxygen is recommended under these conditions.

8. The permittee is responsible for all damages to aquatic life and human health resulting from treatment.
9. Failure of the permittee or agents acting on behalf of the permittee to follow the approved specifications, conditions and requirements immediately renders this permit null and void.
10. If applicable, treatments must also comply with the terms and conditions of NPDES permit coverage.
11. The permittee shall comply with pesticide licensing requirements established by the Pennsylvania Department of Agriculture for the applications approved under this permit.
12. This permit is valid for the treatment information identified above. The permittee shall submit a new application to amend this permit if any of the following changes are proposed:
 - a. Changes to the water bodies being treated.
 - b. Increases in the maximum dose or to the number of annual treatments for any water body.
 - c. Changes in the pesticide(s) used for treatment, unless the new pesticide(s) contain the same active ingredient(s) and the same or lower percent composition of the ingredient in comparison to the pesticide(s) previously approved by DEP/PFBC.

APPROVALS

For the Pennsylvania Fish and Boat Commission:

<i>Heather Smiles</i>	Division Chief	11/1/2024
Heather Smiles	Title	Date

Additional Requirements: none

For the Department of Environmental Protection:

<i>Amy M. Bellanca</i>	Environmental Program Manager	11/1/2024
Amy M. Bellanca, P.E.	Title	Date

Additional Requirements: The treatment of Crescent Lake with aluminum sulfate and sodium aluminate shall be consistent with the information provided by TIGRIS Aquatic Services in the scope of work document submitted with the permit application. Water quality monitoring shall be conducted on surface waters in real-time during the lake treatment insuring that the pH does not drop below a pH of 6.2 and a water quality profile shall be completed in the deepest part of the lake before, during and after the application of aluminum sulfate and sodium aluminate. If any adverse effects are observed upon aquatic life during the lake treatment, the lake treatment using aluminum sulfate and sodium aluminate must immediately cease and the Department must be notified immediately. The application of aluminum sulfate and sodium aluminate to the surface waters must meet applicable water quality criteria as stated in 25 Pa. Code Chapter 93. Water Quality Standards of the Pennsylvania Code. The Department's Northeast Region's Clean Water Program shall be notified a minimum of 72 hours prior to the proposed lake treatment with aluminum sulfate and sodium aluminate.