



THE STATE
of **ALASKA**
GOVERNOR BILL WALKER

**Department of Environmental
Conservation**

DIVISION OF ENVIRONMENTAL HEALTH
Pesticide Control Program

1700 E. Bogard Road Bldg. B, Ste. 103
Wasilla, Alaska 99654
Main: 907.376.1856
Toll free: 800.478.2577
Fax: 907.376.2382

November 9, 2016

Heather Stewart
Natural Resource Specialist III
Alaska Plant Materials Center
5310 S Bodenburg Spur
Palmer, AK 99645

Subject: Permit to Apply Pesticides #16-AQU-07

Dear Ms. Stewart,

The Department of Environmental Conservation (DEC) has completed its evaluation of your request for a permit for the application of the pesticides Sonar Genesis, with EPA registration number 67690-54 and state of Alaska registration number AK-1600001; Sonar One, with EPA registration number 67690-45; and Sonar H4C, with EPA registration number 67690-61, all with active ingredient fluridone to waters of the state to control invasive Elodea in Chena Lake, Chena Slough, and Totchaket Slough in the Fairbanks area. DEC is issuing the enclosed permit in accordance with Alaska Statute 46.03.330 and Title 18, Chapter 90.525 of the Alaska Administrative Code (18 AAC 90.525).

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 - 18 AAC 15.340, or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Division Director, Alaska Department of Environmental Conservation, 555 Cordova Street, Anchorage, AK 99501 within 15 days of the permit decision. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99801, within 30 days of the permit decision. In both cases, please also send a copy of the request to DEC Pesticide Program, 1700 E. Bogard Road, Building B Suite 103, Wasilla, AK 99654. If a hearing is not requested within 30 days, the right to appeal is waived. More information about the submission of a request for an informal review or adjudicatory hearing may be found at www.dec.state.ak.us/commish/ReviewGuidance.htm.

Sincerely,

A handwritten signature in black ink, appearing to read "RJB".

Robert J. Blankenburg, P.E.
Solid Waste & Pesticides Program Manager

Enclosure

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
555 CORDOVA STREET
ANCHORAGE, ALASKA 99501

PERMIT TO APPLY PESTICIDES

Permit No.: 16-AQU-07
Date Issued: November 9, 2016
Date Effective: December 19, 2016
Date Expires: December 31, 2020

The Alaska Department of Environmental Conservation (ADEC), under authority of Alaska Statute 46.03.330 and Title 18, Chapter 90.525 of the Alaska Administrative Code (18 AAC 90.525), hereby grants a Permit to Apply Pesticides to:

Heather Stewart
Natural Resource Specialist III
Alaska Plant Materials Center
5310 S Bodenbug Spur
Palmer, AK 99645

for the purpose of applying the pesticides Sonar Genesis, with EPA registration number 67690-54 and state of Alaska registration number AK-1600001; Sonar One, with EPA registration number 67690-45; and Sonar H4C, with EPA registration number 67690-61, all with active ingredient fluridone to waters of the state to control invasive Elodea in Chena Lake, Chena Slough, and Totchaket Slough in the Fairbanks area.

The permit holder shall manage and apply the pesticide in accordance with 18 AAC 90 and the permit application materials submitted March 4, 2016. In addition, the following permit conditions and stipulations are required:

1. Apply pesticide only when target plants are actively growing.
2. Use pesticides only in the manner specified by the label instructions. Adhere to all the requirements specified by the pesticide product label.
3. Ensure that pesticides are applied only by a person properly certified by DEC to apply such pesticides, or a person under the direct supervision of a person so certified.
4. Apply pesticides using properly calibrated equipment, and in strict compliance with safety precautions.
5. Monitor downstream areas of the outflow of Chena Slough for impacts to vegetation. Visual monitoring shall be conducted once a week throughout active application of liquid pesticide product. Notify the DEC Pesticide Program immediately of any detected impacts.
6. Identify and obtain permission to test at least 5 private drinking wells along the length of the treatment area in Chena Slough. Assay each drinking water well for the presence of fluridone within ten days of initial application, and then at least every eight weeks thereafter until

concentrations of fluridone in the treatment area of Chena Slough decrease to less than 5 ppb.

7. If fluridone in excess of 20 ppb is detected in any private drinking water well, refrain from any additional fluridone application until specifically authorized to continue by DEC.
8. Conduct visual monitoring for dams or blockages along the length of the Chena Slough treatment area at least weekly throughout the duration of the treatment.
9. Install and monitor at least two stream flow gauges in the Chena Slough treatment area.
10. Investigate the cause of any unexpected changes in stream flow indicated on stream flow gauges within 24 hours.
11. If flooding events occur, refrain from any additional fluridone application until stream flow has returned to pre-flood levels.
12. If damming or blockage of stream flow occurs, refrain from any additional fluridone application until damming or blockage is resolved, and stream flow has returned to pre-blockage levels.
13. Locate all automatic drip stations in a secure, locked box capable of containing any leaks which might occur at the distribution site.
14. Monitor the drip station at least once per week when in use, and immediately repair any malfunctions or leaks.
15. Obtain baseline measurements of water quality parameters including pH, dissolved oxygen, conductivity, turbidity, nitrogen, and phosphorus levels prior to treatment in two separate locations in Chena Lake, and in locations that are upstream and downstream of treatment areas in both Chena and Totchaket Sloughs.
16. Prior to application, notify each resident adjacent to treatment area that waters should not be used for irrigation purposes, and cautioning them to use an alternative irrigation source until ambient concentrations are less than 5 ppb. Ensure that residents can obtain information about measured ambient concentrations.
17. Maintain the following records for each pesticide used. Records must be available to DEC upon request:
 - Product name
 - EPA registration number
 - Target pest
 - Date and time of application
 - Location of drip stations
 - Method of application
 - Weather conditions during application
 - Amount of pesticide used
 - Location and size of treatment area
 - Names of applicators

- Purchase, storage, and disposal information
 - Drinking water well laboratory results
 - Schedule and results of visual vegetation monitoring
 - Schedule and results of visual dam and blockage monitoring
 - Results of any stream flow investigations
 - Schedule and results of drip station monitoring
 - Pre-treatment water quality parameters
 - Irrigation notification dates and addresses.
18. Dispose of empty pesticide containers in accordance with label directions and 18 AAC 90.615(a). Any burning of pesticide containers must be done in compliance with 18 AAC 50.
19. Immediately report any spill or accident, alleged accident, or complaint to the DEC Pesticide Program at 1-800-478-2577.
20. Ensure that decontamination, safety, and spill cleanup supplies are available at the treatment site at all times during application.
21. Store all pesticide containers securely, as required by 18 AAC 90.615(d). Post a warning notice on the outside of each storage area in compliance with 18 AAC 90.615(e)-(h).
22. No later than **March 31 of each year** throughout the duration of the permit, submit a written Summary of Treatment Results in accordance with 18 AAC 90.535. This summary must include the following information:
- All records specified under Stipulation 17;
 - Assessment of success or failure of the treatments; and
 - Any observed effect on human health, safety or welfare, animals, or the environment.

In addition to the above stipulations, the ADEC Pesticide Program may monitor treatments to ensure compliance with 18 AAC 90 and the Permit Conditions and Stipulations.

This permit expires on **December 31, 2020**, or upon completion of the above described project, whichever comes first, and may be revoked in accordance with 18 AAC 90.540.



Robert J. Blankenburg, P.E.
Solid Waste & Pesticides Program Manager