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PERMIT TO CONDUCT ULTRA-LOW VOLUME (ULV) TRUCK-MOUNTED ADULTICIDE SPRAYING ON MOSQUITOES

Adulticide Permit No.: **VAAFM Adulticide 2023-1**

Applicants:

**Otter Creek Watershed Insect Control District
(OCWICD)
PO Box 188
Brandon VT 05733**

Towns permitted for application:

Brandon
Goshen
Leicester
Pittsford
Proctor
Salisbury

This permit is issued to OCWICD on a conditional basis for six months beginning May 16, 2023, and incorporates the below-listed required conditions that OCWICD must follow. This permit can be revisited upon OCWICD's request, or when the consultation process required by CVR 20-31-12 Section 6.07(e) is complete, or at the Agency's discretion.



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Required Permit Conditions

1. All pesticide applications shall be made by certified commercial applicators.
2. All pesticide applicators shall possess a valid copy of the labeling for all products applied.
3. All pesticide applications shall be reported to the VT Agency of Agriculture, Food & Markets (VAAFAM) upon request and weekly by way of electronic mail during the application season. Pesticide use shall be recorded and reported using the form provided in Appendix F.2. in the Permit Application dated March 24, 2023 (attached).
4. Use of the following pesticide products is authorized by this permit. Application shall be made according to label specifications and limitations, and to permit conditions.

Product Brand Name	Active Ingredient(s)	EPA Registration Number	Application Rate (active ingredient lb/acre)	Application Rate (formulation fl oz/minute at 10 mph)
PermaSease 4-4 (Adapco)	Permethrin Piperonyl Butoxide	86291-3-96263	0.005 0.005	12.0
PermaSease 4-4 (Azelis)	Permethrin Piperonyl Butoxide	86291-3-96263	0.005 0.005	12.0
PermaSease 3-15	Permethrin Piperonyl Butoxide	86291-4-96263	0.003 0.017	12.0

5. If pesticide resistance to permethrin is documented according to CDC Bottle Bioassay testing per CONUS Manual as <90% of adult females dead at the diagnostic time for the species tested, OCWICD may petition VAAFAM to request use of alternate active ingredients. OCWICD shall conduct pesticide resistance monitoring by participating in the Northeast Regional Center for Excellence in Vector-Borne Disease (NEVBD) Resistance Monitoring program.



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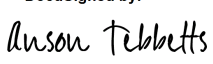
6. All applications shall be made in accordance with rates and dilutions included in the permit application and specified by the original container label or supplemental labeling on or accompanying the product. All products shall be registered with VAAFMM before use.
7. A VAAFMM Pesticide Field Agent will conduct a minimum of three (3) inspections per season, including an initial early season, mid-season, and post-season inspection, that may include but not be limited to product inspection, storage areas, application equipment, records, licenses, personal protective equipment, and treated areas. VAAFMM may conduct additional inspections at its discretion and/or in response to complaints.
8. Annual equipment calibration is required and must be overseen by a third-party, such as an Azelis technician, before each season's first use, in compliance with a written Standard Operating Procedure. OCWICD shall provide the Standard Operating Procedure to VAAFMM upon request.
9. OCWICD's Operations Coordinator shall verify and document pump output monthly throughout the spray season and any time any sprayer is used to spray a different product.
10. Treatment decisions will be based on species counts from surveillance as described in OCWICD's Integrated Pest Management (IPM) plan submitted with its permit application.
11. Identification and counts of collected adult mosquito specimens shall be conducted and recorded before any application is authorized. Identification will be to genera of biting adult mosquitoes on the day of trap or hand net sweep collection as explained in the IPM Plan provided in the permit application (dated March 24, 2023). Identification to species may be conducted later, provided the samples are retained in a manner that will preserve identification characteristics. Mosquito surveillance reports from traps and sweep net collections shall be provided in a format usable by VAAFMM via electronic mail to VAAFMM on a weekly basis during the application season.
12. If during a spraying operation any person or pet is observed traveling along or within 150 feet of the spray route, including on any property along the route, the applicator shall immediately turn off the sprayer until the individual(s) or pet leaves the area or the applicator drives past the individual or pet with the sprayer off. The applicator shall make every effort to avoid pesticides coming into direct contact with any human and/or pet.



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13. The following action thresholds shall be met or exceeded before any application is authorized under this permit:
 - (a) Forty (40) or more adult mosquitoes excluding the genera listed in subparagraph (c) obtained from a 24-hour CDC baited light trap collection;
and/or
 - (b) Fifteen (15) or more adult mosquitoes excluding the genera listed in subparagraph (c) obtained from a maximum 3-minute hand net sweep.
 - (c) Genera excluded from authorized counts include *Uranotaenia*.
 - (d) No insects other than mosquitoes, including biting flies, may be used to justify treatment under this permit.
14. Service requests for truck-mounted spraying shall be subject to the same IPM thresholds as route treatments and include CDC trap counts or net sweeps as required in OCWICD's IPM plan to justify treatment. Records shall be kept for all service requests, including ambient conditions, mosquito counts, and e911 addresses or latitude/longitudes for every request.
15. OCWICD shall comply with the no-spray zone policy provided in Appendix C-4 of the Permit Application dated March 24, 2023 (attached to this permit).
16. OCWICD shall notify residents as described in Appendix C-1 of its Permit Application dated March 24, 2023, and shall also notify residents along each specific planned spray route as provided in Addendum to Appendix C-1, dated May 16, 2023, and attached to this permit.

Dated: May 16, 2023

DocuSigned by:

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Anson C. Tebbetts, Secretary
Vermont Agency of Agriculture, Food & Markets
116 State St, Montpelier VT 05620



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