



Northeast Vegetation and Mosquito Control

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Proposal for Public Health Mosquito Control and Arboviral Monitoring Services for Kensington, NH 2024

This proposal offers services for mosquito control and surveillance in Kensington, NH for the 2024 season. The mosquito program will be coordinated by Justin Adams, who holds a master license for mosquito control from NH Pesticide Control Division. Justin has over 16 years of experience in mosquito control. He has worked in Kensington controlling mosquitoes since 2007 and has run their mosquito program since 2015. Justin will be leading surveillance efforts and identifying mosquitoes collected for testing. He will be the main point of contact for the Town of Kensington and NH Health and Human Services. Mosquito treatment crews will be led by Foreman Damian Andrada. Northeast Vegetation and Mosquito Control is staffed by longtime veterans of municipal mosquito control with over 35 years of combined experience in our leadership team.

The proposed price offers the following services

State Permit and Mapping

Each year, a mosquito and black fly special permit must be submitted to the New Hampshire Pesticide Control Division. Northeast Vegetation and Mosquito Control will take care of all aspects of permit approval. This includes writing the permit application, creation of GIS maps for treatment areas, providing labels and rates for all proposed pesticides, and submission to Pesticide Control. The only requirement from the Town of Kensington is to sign the permit before submission. We will follow up on permitting to ensure treatment of mosquito breeding can begin as they emerge in April.

Larval Surveillance

A key component of successful mosquito control programs is frequent and diligent larval mosquito monitoring. Based on our years of experience in Kensington, we understand the primary breeding areas of mosquito larvae. Larval surveillance will occur in all common areas of breeding including permanent wetland pools, temporary snowmelt pools, cattail marshes, flood plains, temporary rain pools, catch basins, and retention ponds. Residents are encouraged to contact NVMC with any areas of breeding concern on their property. Our technicians will survey for breeding and treat if mosquito larvae are found. As strong proponents of Integrated Pest Management, staff will also work to

educate residents on ways to reduce mosquito breeding around the home and ways to discourage mosquitoes from their property.

Beginning in April, our crews will begin surveying Kensington breeding sites weekly for larvae. Once larvae are found, crews will be sent to larvicide breeding sites. Additionally, catch basins will be monitored for larvae regularly.

Larval Mosquito Treatment

The most effective means of controlling mosquito populations is treatment of larval breeding sites. Larvae have limited windows of emergence when they can be controlled by larvicide applications to their breeding sites and regular treatment will occur upon surveillance data. NVMC will always seek to use the most environmentally friendly products that can effectively control mosquito larvae. This may change with our needs and severity of breeding. Treatment will be informed by larval surveillance and adult mosquito surveillance.

Applications are targeted to breeding areas dependent on time of year and weather conditions as well. In early spring, the focus is on snowmelt pools where annual species lay eggs to be hatched when melted snow warms up. Permanent sites like red maple swamps, woodland pools, and edges of marshes also are habitats of early breeding species. In early summer, this effort shifts to cattail marshes and phragmites colonies where our most abundant mosquito, *Cq. perturbans* breed. Based on our long running data of mosquito emergence, these can be targeted at time of emergence to greatly reduce this incredibly prolific species. In later summer this again shifts to areas of rainfall collection like catch basins, drainage ditches, and retention ponds. The catch basins are of particular importance to species that carry West Nile Virus and will be treated with bacterial larvicide when found breeding. And in Autumn we continue treatment of *Cs. melanura* habitats in red maple swamps and sphagnum bogs. This species is key to transmission of EEE and is our top priority for control. As mosquito populations are dynamic and change each year, continual monitoring of all sites will inform our treatment.

Adult Mosquito Surveillance and Arboviral Monitoring

Beginning in June, adult mosquitoes will be collected and identified to species. These will be collected with 3 cdc light traps, 2 in historical locations and a 3rd rotating trap to survey the town effectively. When the NH Public Health lab begins testing in June, all species currently accepted will be identified, split to pools and shipped for disease testing. The lab tests for Eastern Equine Encephalitis (EEE), West Nile Virus (WNV), and Jamestown Canyon Virus (JCV). Results are typically available within a week and we are contacted by Health and Human Services right away when a positive pool is found. Upon a positive test result, you will likely hear from the state first, followed shortly after by Justin Adams. This will trigger our emergency response protocol and a plan of action will be discussed with Kensington Director of Administration, Kathleen Felch and Kensington Select board.

NVMC will send monthly reports of surveillance data and control activities. We will provide a guide to the species discussed and work to ensure the data is manageable and easy to understand.

Emergency Response (EEE or WNV positive mosquito pools detected or human case)

At this point multiple options will become available. Additional larval surveillance will occur to locate breeding, treatment of species habitats and additional trapping if necessary. We will plan for perimeter spraying at high risk areas such as schools, athletic fields, and parks. Prior to season beginning we will coordinate which treatment areas should be covered in this event. 1 barrier treatment will be included at no extra cost if needed. In addition, we will make an emergency contact plan for which key members of town government should be contacted as well as help with any press releases or news bulletins the town would like to issue. Open communication of risk and steps for public protection should be a key component of response. In the event of a major disease outbreak, emergency responses such as ulv street spraying are available should the town request them. These events are rare and would likely only be proposed under unusually high risk events.

Pricing for 2024 Mosquito Control and Surveillance for Kensington, NH

Total for 2024 – \$23,000.00

Permitting –	No Cost
Emergency Response Plan –	No Cost
Larval Surveillance –	\$6,500.00
Larviciding -	\$9,000.00
Arboviral Surveillance –	\$7,500.00
Barrier Treatments (1 included) -	No Cost

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approved BvS
11/20/2023

