



240012

MEMORANDUM

TO: Public Works and Environmental Concerns Committee

THROUGH: Carl S. Goldsmith, Director of Public Works *[Signature]*

FROM: David P. Gorman, P.E., Asst. Director of Public Works *DPG*

SUBJECT: Mosquito Control Contract for 2024 through 2028

DATE: December 22, 2023

Staff requests that the Committee provide a recommendation to the Board of Trustees regarding the Mosquito Control Contract for 2024 through 2028. The Village's contractor, Clark Environmental Mosquito Management, proposes to hold their price for 2024 at \$68,280, which is the same price since 2020. This price had been reduced from the long-held prior price of \$88,710 due to the elimination of backyard catch basin treatments and community event spraying. A five-year contract is proposed to lock in favorable and predictable pricing. The price for 2025 would increase by 3.5% to \$70,660, and then by the lower of either 3% or the CPI for 2026, 2027 and 2028. The following services would be unchanged:

- Three larval site inspections and the subsequent larvicide application for 192 sites,
- Five additional targeted inspection of 74 known breeding sites,
- Three targeted late-season inspections of 63 known Culex mosquito breeding sites,
- One 180-day larvicide application in 4,320 street catch basins,
- Three pre-hatch applications by helicopter of 60 acres of standing water sites, and
- A phone hotline for residents.

The control program will continue with pre-hatch and larvicide treatments. Pre-hatch and larvicide applications are highly effective against Culex mosquitoes, which is the species that carries the West Nile Virus (WNV). Aedes (floodwater) mosquitoes do not carry WNV and they breed in open water as well as damp areas. Traps have been collecting both Culex and Aedes mosquitoes.

Adulticide treatment (spraying) is not very effective or efficient in managing either Culex or Aedes mosquitoes except for short-term relief lasting a few days. The cost for additional spraying by trucks on all Village streets would be an extra \$80/mile of treatment. Given that we have 154 miles of streets, each Village-wide application would cost \$12,320. This would only be used if necessary for temporary treatment of isolated areas that may be problematic due to localized flooding over an extended time.

Our contract specifies the continued use of the environmentally responsible larvicide called Natular that is derived from a soil bacterium. Deliveries by helicopter, bicycles, and foot are other unique aspects of Clarke's sustainable and quiet service program.

Recommendation:

Staff has been very satisfied with Clarke's customer service, their surveillance of open waters by their in-house helicopter service, and their willingness to hold prices. Therefore, Staff recommends that the Committee vote to recommend that the Board of Trustees renew the contract with Clarke.

attachment: proposed contract

DG:dg H:\PW\Environmental\Mosquito Control\2024-2028\PWEC Memo.doc



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**Clarke Environmental Mosquito Management, Inc.,
Professional Services Outline for 2024-2028
Village of Lombard
Environmental Mosquito Management (EMM) Program**

Part I. General Service

- A. Aerial Survey and Geographic Information System (GIS) Mapping
- B. Computer System and Record Keeping Database
- C. Public Relations and Educational Brochures
- D. Mosquito Hotline Citizen Response – (800) 942-2555
- E. Comprehensive Insurance Coverage naming the Village of Lombard additionally insured
- F. Program Consulting and Quality Control Staff
- G. Monthly Operational Reports, Periodic Advisories, and Annual Report
- H. Regulatory compliance on local, state, and federal levels

Part II. Surveillance and Monitoring

- A. Floodwater Mosquito Migration Model:
The use of weather data and computer model to predict the arrival of *Aedes vexans* brood (hatch) and peak annoyance periods.
- B. Arbovirus Surveillance:
 - 1. Clarke New Jersey Light Trap Network to monitor and evaluate adult mosquito activity.
- C. Weather Monitoring – Operational Forecasts

Part III. Larval Control

- A. Targeted Mosquito Management System (TMMS™) computer database and site management.
- B. Larval Site Monitoring: 11 inspections
 - 1. Three (3) complete inspections of up to 192 sites as outlined by most recent Clarke GIS Survey.
 - 2. Five (5) targeted inspections of up to 74 breeding areas as determined by the computerized Clarke Targeted Mosquito Management System™.
 - 3. Three (3) targeted inspections of up to 63 known *Culex spp.* breeding areas as determined by the computerized Clarke Targeted Mosquito Management System™.
 - 4. Inspections of sites called in by residents on the Mosquito Hotline.
- C. Prescription Larval Control will be performed with Natular® mosquito larvicide as described in the following sections.
 - 1. Larval Control: The program provides for treatment as needed of single brood or 30 day residual product with backpack or hand equipment.
 - 2. Helicopter Prehatch: Three (3) treatments using Natular™ of up to 50 acres for floodwater mosquito control.
 - 3. Catch Basins: One (1) treatment of up to 4,320 street side catch basins, inlets and manholes using a Natular™XRT for control of up to 180 days. The primary method of treatment delivery will be by bicycle.



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Part IV. Adult Control

- A. Adulticiding in Residential Areas:
 - 1. As authorized by the Village of Lombard, community-wide truck ULV treatments of up to 154 miles of streets using Merus™ a botanical insecticide (pyrethrin). Treatments may be on a section or city basis at a cost of \$80.00 per mile (minimum of 10 miles).
- B. Adulticiding Operational Procedures
 - 1. Notification of community contact.
 - 2. Weather limit monitoring and compliance.
 - 3. Notification of residents on Clarke Call Notification List.
 - 4. ULV particle size evaluation.
 - 5. Insecticide dosage and quality control analysis.

2024 EarthRight™ Payment Total Price for Parts I, II, III, IV**

\$68,280.00

****NPDES Permit:** A National Pollutant Discharge Elimination System (NPDES) permit is necessary for the execution of the work for mosquito control effective October 31, 2011. Any additional costs associated with activities and/or services that may be required by Clarke in order to comply with an NPDES permit are not included in this proposal.



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**Clarke Environmental Mosquito Management, Inc.,
Client Agreement Authorization for 2024-2028
Village of Lombard
EarthRight™ Program**

- I. **Program Payment Plan:** For Parts I, II, III, and IV as specified in the 2024 Professional Services Price Outline, the total for the 2024 program is \$68,280.00. The payments will be due according to the payment schedule below. Any additional treatments beyond the core program will be invoiced when the treatment is completed. Pricing for the 2025 program will increase to \$70,660. Pricing for 2026-2028 years will not exceed a 3% annual increase or CPI (whichever is lower).

PROGRAM PAYMENT PLAN

Month	2024	2025
June 1	\$17,070.00	\$17,665.00
July 1	\$17,070.00	\$17,665.00
August 1	\$17,070.00	\$17,665.00
September 1	\$17,070.00	\$17,665.00
TOTAL	\$68,280.00	\$70,660.00

For Village of Lombard:

Sign Name: _____ Title: _____ Date: _____

For Clarke Environmental Mosquito Management, Inc.:

Name: Emily Kluger Title: Key Accounts Manager Date: 12/4/2023



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**Clarke Environmental Mosquito Management, Inc.,
Client Authorization for 2024-2028
Village of Lombard
EarthRight™ Program**

Administrative Information:

Invoices should be sent to:

Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Office Phone: _____ Fax: _____ P.O. # _____
E-mail: _____ County: _____

****In an effort to be more sustainable, we ask that you provide us with an
Email address that the invoices should be sent to.****

Treatment Address (if different from above):

County: _____

Address: _____
City: _____ State: _____ Zip: _____

Contact Person for Village of Lombard:

Name: _____ Title: _____
Office Phone: _____ Fax: _____ E-Mail: _____
Home Phone: _____ Cell: _____ Pager: _____

Alternate Contact Person for Village of Lombard:

Name: _____ Title: _____
Office Phone: _____ Fax: _____ E-Mail: _____
Home Phone: _____ Cell: _____ Pager: _____

Please sign and return a copy of the complete contract for our files to:

Clarke Environmental Mosquito Management, Inc., Attn: Emily Kluger
675 Sidwell Court, St Charles, IL 60174 or email ekluger@clarke.com