

VILLAGE OF LOMBARD
REQUEST FOR BOARD OF TRUSTEES ACTION
For Inclusion on Board Agenda

_____ Resolution or Ordinance (Blue) _____ Waiver of First Requested
 X Recommendations of Boards, Commissions & Committees (Green)
_____ Other Business (Pink)

TO: PRESIDENT AND BOARD OF TRUSTEES

FROM: Scott Niehaus, Village Manager

DATE: March 9, 2020 (COW) (B of T) **Date:** March 19, 2020

TITLE: Mosquito Control Services Agreement for 2020

SUBMITTED BY: David Gorman, Assistant Director of Public Works *DGI*

BACKGROUND/POLICY IMPLICATIONS:

A recommendation from Staff to exercise a one-year extension of the Agreement with Clarke Environmental Mosquito Management for mosquito control services for 2020. The Environmental Concerns Committee had recommended the original Agreement in 2018.

FISCAL IMPACT/FUNDING SOURCE:

\$88,710.00 from Account #101.270. 325.75350

Review (as necessary):

Village Attorney X _____ Date _____

Finance Director X _____ Date _____

Village Manager X _____ Date _____

NOTE: All materials must be submitted to and approved by the Village Manager's Office by 12:00 noon, Wednesday, prior to the Agenda Distribution.



MEMORANDUM

TO: Scott Niehaus, Village Manager

THROUGH: Carl S. Goldsmith, Director of Public Works *g*

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

SUBJECT: Mosquito Control Agreement Extension for 2020

DATE: March 9, 2020

The Agreement with Clark Environmental Mosquito Management for 2018-2019 had included an extension option for 2020. Staff requests that this be forwarded for the Board of Trustees' consideration.

Background:

Clark is holding their price once again at \$88,710 for the year, which is the same price held since 2006. The following services would remain unchanged:

- Three larval site inspections and the subsequent larvicide application for 192 sites,
- Six additional targeted inspection of 74 known breeding sites,
- Three targeted late-season inspections of 63 known Culex mosquito breeding sites,
- Four 30-day larvicide applications in 4,320 street catch basins,
- Three pre-hatch applications by helicopter of 60 acres of standing water sites,
- One 180-day larvicide application in 350 backyard catch basins,
- Maintain a phone hotline for residents, and
- Four adulticide applications (spraying) for community events (July 4th Fireworks, Civil War Reenactment, and Madison Meadow soccer & football tournaments).

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). The contract continues to specify the more environmentally responsible larvicide called Natular that is derived from a soil bacterium and chrysanthemum flowers. Aedes (floodwater) mosquitoes do not carry WNV and they breed in open water as well as damp areas, including wet grass. 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. That said, four adulticide (spraying) applications are still included at no extra cost for community events. 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.

Recommendation:

Staff has been very satisfied with Clarke's customer service to residents, their surveillance of open waters by their in-house helicopter service, and their willingness to hold their prices. Therefore, Staff recommends that the Board of Trustees accept the 2020 Agreement extension with Clarke. The Public Works & Environmental Concerns Committee had recommended the original Agreement in 2018.

R E S O L U T I O N
R ____ -20

**A RESOLUTION AUTHORIZING SIGNATURE OF
PRESIDENT AND CLERK ON AN AGREEMENT**

WHEREAS, the Corporate Authorities of the Village of Lombard have received a proposed Agreement between the Village of Lombard and Clarke Environmental Mosquito Management, Inc. regarding mosquito management for 2020, as attached hereto; and

WHEREAS, the Agreement would execute the optional contract extension as provided in the prior Agreement for 2018-2019 services; and

WHEREAS, the Corporate Authorities deem it to be in the best interest of the Village of Lombard to approve the Agreement for 2020.

NOW, THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF LOMBARD, DU PAGE COUNTY, ILLINOIS as follows:

SECTION 1: That the Village President be and hereby is authorized to sign on behalf of the Village of Lombard said Agreement, as attached hereto.

SECTION 2: That the Village Clerk be and hereby is authorized to attest said Agreement, as attached hereto.

Adopted this 19th day of March, 2020.

Ayes: _____

Nays: _____

Absent: _____

Approved this 19th day of March, 2020.

Keith Giagnorio
Village President

ATTEST:

Sharon Kuderna
Village Clerk



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**Clarke Environmental Mosquito Management, Inc.,
Professional Services Outline for 2020
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: 12 inspections
 - 1. Three (3) complete inspections of up to 192 sites as outlined by most recent Clarke GIS Survey.
 - 2. Six (6) 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 60 acres for floodwater mosquito control.
 - 3. Catch Basins: Four (4) treatments of up to 4,320 street side catch basins, inlets and manholes using a Natular™T30 for control of up to 30 days. The primary method of treatment delivery will be by bicycle.
 - 4. Catch Basins: Back Yard Catch Basins: One (1) treatment of up to 350 backyard catch basins using an extended residual slow release insecticide (Natular™XRT) for control of up to 180 days.



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Part IV. Adult Control

- A. Adulciding in mosquito harborage areas:
 - 1. Four (4) scheduled truck Ultra Low Volume (ULV) treatments using Merus™ a botanical insecticide (pyrethrin) for any community special events.
- B. Adulciding 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).
- C. Adulciding 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.

2020 EarthRight™ Payment Total Price for Parts I, II, III, IV**

\$88,710.00

****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 2020
Village of Lombard
EarthRight™ Program**

- I. Program Payment Plan:** For Parts I, II, III, and IV as specified in the 2020 Professional Services Price Outline, the total for the 2020 program is \$88,710.00. 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.

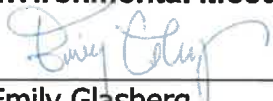
PROGRAM PAYMENT PLAN

Month	2020
June 1	\$22,177.50
July 1	\$22,177.50
August 1	\$22,177.50
September 1	\$22,177.50
TOTAL	\$88,710.00

For Village of Lombard:

Sign Name: _____ Title: _____ Date: _____

For Clarke Environmental Mosquito Management, Inc.:

Name:  Title: Key Accounts Manager Date: 3/6/2020
Emily Glasberg