



MEMORANDUM

TO: Environmental Concerns Committee

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

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

SUBJECT: Mosquito Control Contract for 2012 and 2013

DATE: February 21, 2012

Staff requests that the Environmental Concerns Committee provide a recommendation to the Board of Trustees regarding the Mosquito Control Contract for calendar years 2012 and 2013. The Village's longtime contractor, Clark Environmental Mosquito Management, proposes to hold their price for both years at \$88,710 per year, which is the same price held since 2006. The following services would remain unchanged:

- Larval site monitoring and larvicide application for 151 sites (up from 146 in 2010),
- Four 30-day larvicide applications in 4,320 catch basins (up from 4,314 in 2010),
- One 100-day larvicide application in 350 backyard catch basins,
- Three pre-hatch applications by helicopter of 60 acres of standing water sites (up from 49 in 2010),
- Maintain a phone hotline for residents and
- Four adulticide applications (spraying) for the Taste of Lombard.

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 areas as well as damp areas, including wet grass. Light 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 for community events. Four adulticide 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 \$9,963.80 per treatment, which is unchanged since 2006.

Recommendation:

Staff has been very satisfied with Clarke's customer service to residents, their in-house helicopter service and their willingness to hold their prices. Therefore, Staff recommends that the Village renew its contract with Clarke.



**Clarke Environmental Mosquito Management, Inc.
Professional Services Outline For
The 2012–2013 Village of Lombard
Environmental Mosquito Management (EMM) Program**

Part I. GENERAL SERVICE

- A. Geographic Information System (GIS) Mapping
- B. Public Relations
- C. Mosquito Hotline Citizen Response – (800) 942-2555
- D. \$25 Million Umbrella Liability Policy naming the Village additionally insured
- E. Program Consulting and Quality Control Staff
- F. National Pollutant Discharge Elimination System (NPDES) permit

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* broods.
- B. Weather Monitoring – Operational Forecasts

Part III. LARVAL CONTROL

- A. Targeted Mosquito Management System (TMMS™) computer database and site management of 151 sites.
Larval Site Monitoring: Twelve (12) inspections
 - 1. Three (3) complete inspections of up to 192 sites
 - 2. Six (6) targeted inspections of up to 74 breeding areas.
 - 3. Three (3) targeted inspections of up to 63 known *Culex spp.* breeding areas.
 - 4. Inspections of sites called in by residents on the Mosquito Hotline.
- B. Prescription Larval Control, as needed by hand, powerback and helicopter, with VectoLex® (*Bacillus sphaericus*), VectoBac® (*Bacillus thuringiensis israelensis* - Bti), Abate® (temephos), Altosid® (methoprene) or Natular® (spinosad).
- C. Catch Basin Control: Four (4) treatments of up to 4,320 catch basins, inlets and manholes with a 30-day sustainable insecticide. Primary method of treatment will be bicycle.
- D. One treatment of up to 350 backyard catch basins, inlets and manholes with Altosid® XR or Natular® XRT.
- E. Prehatch Helicopter Application: Three (3) applications with Abate® of 60 acres of known breeding areas.

Part IV. ADULT CONTROL

- A. Adulticiding in mosquito harborage areas:
 - 1. Four (4) scheduled truck Ultra Low Volume (ULV) treatments with a synthetic pyrethroid insecticide for any community special events.



- B. Adulciding in Residential Areas:
 - 1. Truck ULV treatments with Anvil® 10+10 over an application rate of 3.5 fluid oz/minute at the direction of the Village. Treatments may be on a section or city basis at a cost of \$64.70 per mile (minimum of 10 miles). Community wide treatments of 154 routed miles of Village streets at a cost of \$9,963.80 per treatment.
- 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.

2012 EMM Payment Total Cost for Parts I, II, III, IV

\$88,710.00



Clarke Environmental Mosquito Management, Inc.
Village of Lombard Agreement and Authorization
The 2012-2013 Village of Lombard
Environmental Mosquito Management (EMM) Program

Program Payment Plan. For Parts I, II, III, and IV as specified in the 2012 Professional Services Cost Outline, the cost the 2012 & 2013 program is \$88,710.00 per season. The payments will be due on June 1, July 1, August 1, and September 1 according to the payment schedule below. New areas to be covered will be pro-rated to the program cost at the rates in effect at the time. Any additional applications beyond the core program will be invoiced when the application is completed.

This agreement may be extended by mutual agreement of the parties. Clarke Environmental Mosquito Management, Inc. may petition the Village of Lombard at any time for an additional rate adjustment on the basis changes in the cost of operations.

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.

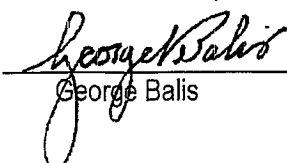
PROGRAM PAYMENT PLAN

Month	2012
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: Regional Manager Date: 1/5/2012
George Balis