

ESPLANADE AT TRADITIONS MIDGE CONTROL SERVICES





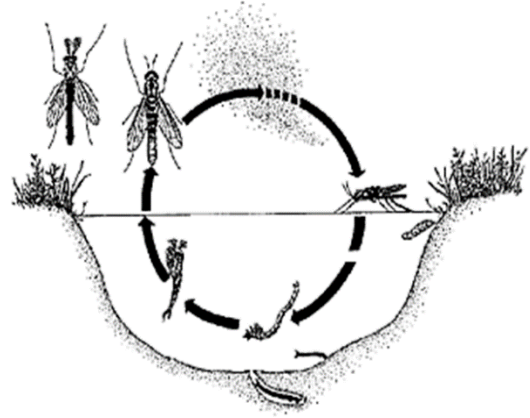
Esplanade at Traditions

Esplanade at Traditions

Midge Management

- **“Edge” Midge Life Cycle**

- Complete Metamorphosis
 - Egg: 2-7 days
 - Larva: 2-7 weeks
 - Pupa: 3 days
 - Adult: 3-5 days
- Entire cycle 3-9 wks
- Temp dependent



- **“Edge” Midge Larvae**

- Breeding habitats
 - Wetlands, ponds, lakes, WWTP, polluted water
- Buried in the substrate, not in the water column
- “Whipping” motion stirs up food, O₂
- Pink-dark red due to hemoglobin



- **“Edge” Midge Adults**

- Mosquito-like appearance
- Small, 1/16-1/2”
- Light tan, light green, black
- Males: bushy antennae
- Emerge in huge swarms
- Mate, lay eggs, die



- **Chaoborids, AKA “phantom midges.”**

- Deep-water, “middle” midges
- Adults more populous than “edge” midges
- Larvae difficult to sample/count/treat/control
- Minimize nuisance w/ULV & Barrier

- **Midge Adults**

- Associated Problems
 - Interfere with outdoor, recreational activities
 - Property defacement
 - Direct: midge related
 - Indirect: spiders
 - “Fishy” odor of dead adults

- **Midge Control**

- Alternative “Homeowner” Solutions
- Decrease lawn fertilizer run-off into ponds
- Community awareness/education on proper fertilizer use—work with landscapers
- Minimize lighting to reduce swarms’ attraction to residences—close blinds, house lights off



Esplanade at Traditions

**Clarke Environmental Mosquito Management, Inc.
Professional Services Outline for 2023-24
Esplanade at Traditions
Environmental Midge Management (EMM) Program**

Part I. General Service

- A. Computer System and Record-Keeping Database
- B. Public Relations and Educational Brochures
- C. Comprehensive Insurance Coverage naming Esplanade at Traditions additionally insured
- D. Program Consulting and Quality Control Staff
- E. Regulatory compliance on local, state, and federal levels

Part II. Larval Control – Monthly Larvicide Application

- A. Prescription Larval Control will be performed with Natular® / and/or equivalent mosquito/midge larvicide, as described in the following sections.
 - 1. Treatments of sites identified in **GREEN** (spreadsheet below) using Natular G30® granules or an equivalent 30-day residual product using backpack or hand equipment. Targeting edge midges along the littoral shelf of the stormwater ponds.

Part III. Adult Control – Twice (2) a Month Barrier Applications

- A. Adulticiding in mosquito harborage areas:
 - 1. Two (2) Backpack barrier treatments a month from water's edge up 15ft along the stormwater turf/ foliage to reduce re-infestation with a synthetic pyrethroid insecticide for residual control of adult mosquitoes/midges around stormwater ponds.
- B. Adulticiding Operational Procedures
 - 1. Notification of community contact.
 - 2. Weather limit monitoring and compliance.
 - 3. ULV particle size evaluation.
 - 4. Insecticide dosage and quality control analysis.

Part IV: PER APP Services:

- A. Adult ULV Services: Clarke will utilize a UTV to drive around the community roads & stormwater ponds that are accessible and apply an Ultra Low Volume (ULV) application to reduce the adult midge/ mosquito population utilizing Duet® at **\$78.89/ mile**.
- B. An individual home barrier treatments will be priced at **\$145.00/ home** and must be scheduled with other monthly services at Esplanade at Traditions.

****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 to comply with an NPDES permit are not included in this proposal.



Esplanade at Traditions

Sites	ACRES	Shoreline Feet	Monthly Price Per Pond
00-01	0.81	764.34	\$ 153.97
00-02	3.11	1595.73	\$ 321.44
00-03	3.51	2383.74	\$ 480.17
00-04	2.70	1849.92	\$ 372.64
00-05	3.98	2014.71	\$ 405.84
00-06	4.32	1979.45	\$ 398.74
00-07	2.58	1916.87	\$ 386.13
00-08	10.98	5866.91	\$ 1,181.81
00-09	4.62	3606.63	\$ 726.51
00-10	3.58	2276.19	\$ 458.51
00-11	4.20	1941.40	\$ 391.07
00-12	2.45	2235.49	\$ 450.31
00-13	2.51	2098.01	\$ 422.62
00-14	3.33	1984.65	\$ 399.78
00-15	2.11	1943.62	\$ 391.52
00-16	0.31	608.22	\$ 122.52

***Total Price Per Month for Part I,II, & III. Per-App services will be serviced upon request.**

2023	
November	\$ 2,306.06
December	\$ 2,306.06
Total:	\$ 4,612.12

2024	
February	\$ 2,306.06
March	\$ 2,306.06
April	\$ 2,306.06
September	\$ 2,306.06
October	\$ 2,306.06
November	\$ 2,306.06
Total:	\$13,836.36



Esplanade at Traditions

**Clarke Environmental Mosquito Management, Inc.
Client Agreement and Authorization for 2023-24
Esplanade at Traditions
Environmental Midge Management (EMM) Program**

- I. **TERM AND TERMINATION:** This Agreement has an automatic Renewal Clause. The term of the Agreement shall commence on the date when both parties have executed this Agreement and shall continue for a period ending on December 31, 2024 (the "Initial Term"). Unless either party hereto provides the other party with written notice at least Ninety (90) days prior to the end of the Initial Term or any subsequent renewal term, this Agreement shall automatically continue to renew for an additional term, each term having a duration equal to the Initial Agreement. If a party hereto fails to comply with a provision of this Agreement, then the other party shall have the right to terminate this Agreement if it gives written notice of the default to the defaulting party and the defaulting party fails to cure the default within sixty days of receipt of said notice. **This contract may be terminated at any time by either party with 30 days written notice.**
- II. **Price Increases:** The price for the services rendered hereunder may be increased by Clarke Environmental Mosquito Management, Inc. ("Clarke") on the first day of any Calendar year commencing on January 1, 2025 (a "Price Increase Date") by a percentage which shall not exceed the greater of the percentage increase of the consumer price index during the calendar year which immediately precedes the Price Increase Date or five percent (5%) (the "Price Increase Percentage"). Clarke Environmental Mosquito Management, Inc. may petition Esplanade at Traditions at any time for an additional rate adjustment based on extraordinary and unusual changes in the cost of operations that could not be reasonably foreseen by a prudent operator. New areas to be covered will be pro-rated to the program cost at the rates in effect at the time.

If you would like to pay by credit card, please provide the credit card information below.

Card #: _____ Exp. Date: _____

Name on Card: _____

For Esplanade at Traditions:

DocuSigned by:
Sign Name: Debbie Buckett Title: Vice President Date: 11/7/2023
13809A0B226643E...

For Clarke Environmental Mosquito Management, Inc.:

Name: Darrel Bagiotti Title: Control Consultant Date: 10/24/2023



Esplanade at Traditions

**Clarke Environmental Mosquito Management, Inc.
Client Authorization for 2023-24
Esplanade at Traditions
Environmental Mosquito Management (EMM) Program**

Administrative Information:

Invoices should be sent to:

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

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

Treatment Address (if different from above):

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

Contact Person for the Esplanade at Traditions:

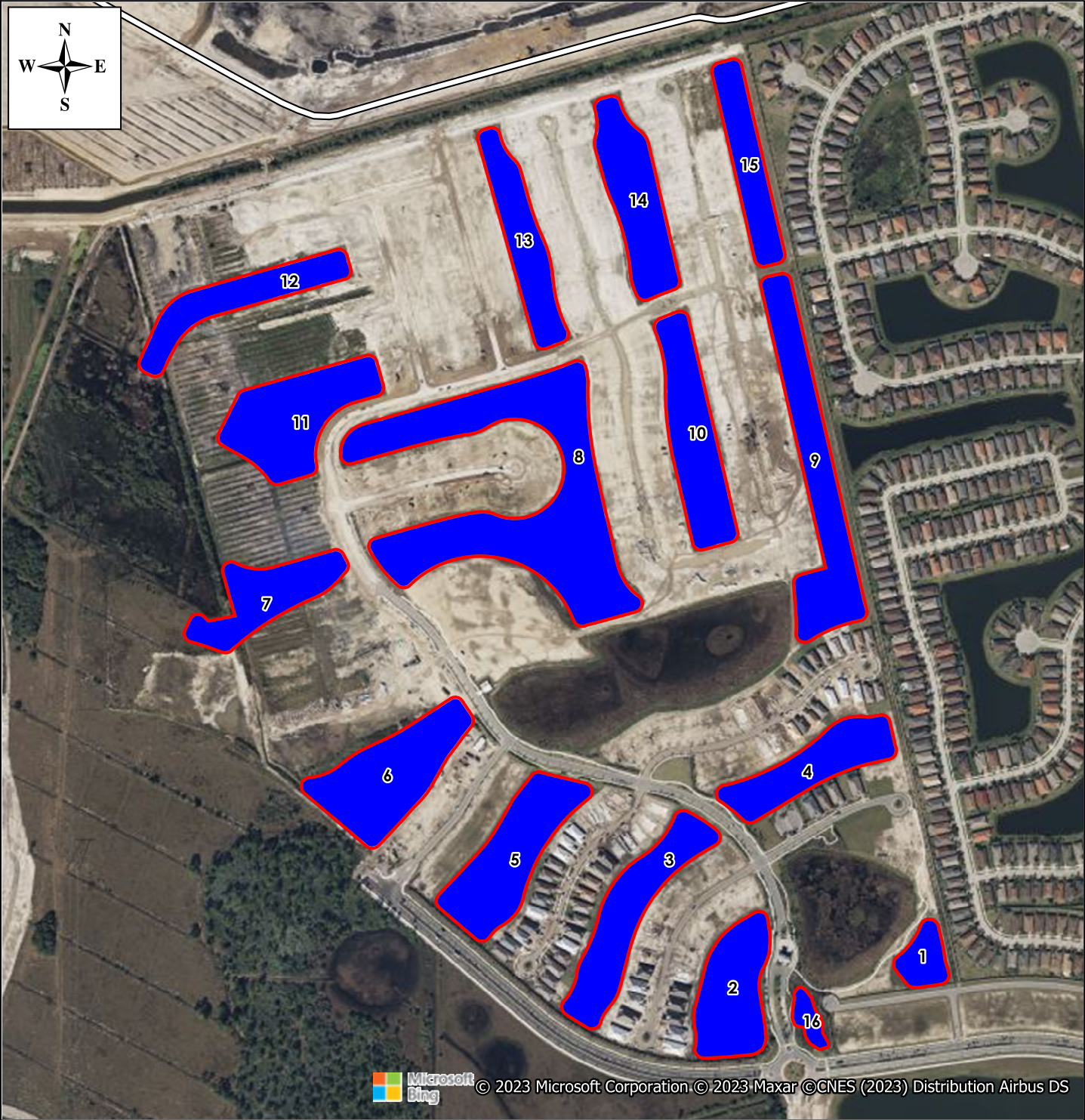
Name: _____ Title: _____
Office Phone: _____ Fax: _____ E-Mail: _____
Home Phone: _____ Cell: _____ Pager: _____

Alternate Contact Person for the Esplanade at Traditions:

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: Darrel Bagiotti dbagiotti@clarke.com (954) 594-0079
3036 Michigan Avenue, Kissimmee, FL 34744; Fax number 407-944-0709



ESPLANADE AT TRADITION HOA

LEGEND

October 16, 2023

 MIDGE SITE

 ATV ROUTE

WARNING: This document is the property of Clarke Environmental Mosquito Mgmt., Inc. Any unauthorized use of this property will be prosecuted as a theft of labor, services, or property. (Chapter 38, §16-1 and §16-3 of the IL. REV. STATUTES)

