



Environmental Health Services Inc.  
Biting Fly Management Service Provider  
Distributors of Quality Biopesticide Products & Application Equipment

# Town of Georgina

## Final Report: 2015

### Mosquito Nuisance Abatement Program



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For information visit us at [www.pestalto-international.com](http://www.pestalto-international.com)

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## Introduction

The community of Pefferlaw within the Town of Georgina has dealt with a nuisance mosquito problem for many years. The snow melt – spring mosquito abatement program continued in 2015 and involved a one-time aerial application with B.t.i. together with ground applications of B.t.i., repeated as necessary. Larval monitoring, treatments and reporting occurred between April 2 and May 15.

The primary objective of the program was to achieve 100% larval control in all of the treated larval habitats in order to reduce the number of adult nuisance mosquitoes in the late spring. Sweep net monitoring of adult mosquitoes occurred two times at weekly intervals after the larviciding program to determine the success of the program.

Our findings showed that mosquito egg hatch and larval development was delayed by prolonged cold weather; larvicide was applied at the optimal time when the larval populations were at peak 3<sup>rd</sup> larval stage and before pupation; and larval control was achieved at the treated sites. Adult monitoring on May 14 revealed that the number of adult mosquitoes at three of the eight sites in town were not significantly different from the numbers caught at the two sites outside of the program area. Adult mosquitoes were not caught at the other sites in town.

We would like to acknowledge the support and cooperation provided by both the Town of Georgina and MOE personnel to get the program underway in a timely fashion.

## Preparation

The preparation of the program began with the application for permit from the Ontario Ministry of Environment (MOE) policies and requirements. Information flyers were mailed out to all affected property owners within the treatment boundary on January 23<sup>rd</sup> with a cut-off date of February 27<sup>th</sup> for a reply. Since more than 30 days notice was given, only *objectors* had to register and collection of consent was not required.

The MOE requires two forms of public notification in large municipal programs for mosquito nuisance control. The first form was the *information flyer* mailed out to affected property owners and the second form was accomplished by publishing a *newspaper notification*.

## Notification

Several public notifications were published in The Georgian Advocate starting on March 19<sup>th</sup> through April 24<sup>th</sup>. Information including the treatment boundary was provided on the Town of Georgina website. A copy of the information flyer and published notifications can be found in Appendix 1.

## Description of the Proposed Treatment Area

Andrew Fung (Town of Georgina) provided Kevin Taylor (Pestalto) with digital ortho-photos, parcel lot boundaries and road networks. This enabled shape files to be produced of properties who gave consent for treatment as well as those who did not. These images were then provided to the pilot for the 2015 treatment program. The final map of the 2015 proposed larval mosquito treatment areas is in Appendix 2.

## Approvals/Objectors

Prior to the application (April 20<sup>th</sup>) there were 87 objectors within the proposed treatment area. The Region of York provided permission to treat York Forest lands. The property boundaries of objecting landowners were loaded into the helicopter's GPS system so that the application swaths targeted only those properties who gave consent at the time that the application began. A list of objector's properties which was organized by street name was used by the Pestalto ground applicators to conduct ground applications. Ditches and culverts adjacent to such properties were considered public property and were larvicided in most situations.

## Letter of Approval

Mr. Gagan Sandhu (Town of Georgina) provided a Letter of Support for the program from the Town of Georgina. This was required to obtain a M.O.E. larviciding permit.

## Permits

Kevin Taylor was responsible for the timely submission of applications for permits to the Ontario Ministry of Environment (MOE) and addressing subsequent requirements and concerns. Separate permit applications for aerial and ground applications were submitted.

The application for permits was submitted on January 27<sup>th</sup> and the MOE permits were received on March 30<sup>th</sup>. Pestalto's permits allowed for the larviciding of up to 2,200 hectares by air and 250 hectares by ground. The Ontario Ministry of Environment Permits can be seen in Appendix 3.

## Base of Operations

Approval was obtained to use the fenced and gated aggregate pit off Smith Road as the main base for aerial applications as well as storage of equipment and larvicide. This site was used for helicopter take offs and landings and increased the efficiency of the program well as reduced interference with Town works staff. Application equipment, larvicide and the helicopter arrived at the base on April 21<sup>st</sup>. Pestalto very much appreciates the use of the aggregate pit and would like to thank the staff for their cooperation during the application.

## Pre-Treatment-Larval Monitoring

The purpose of pre-treatment monitoring is to determine the presence of mosquito larvae and their growth stage. The optimum time for larviciding snow melt mosquito species is when the majority of larvae are in the 3<sup>rd</sup> & 4<sup>th</sup> instar growth stages. The presence of some 1<sup>st</sup> and 2<sup>nd</sup> instars at this time would indicate that the majority of the snow melt hatch was complete.

Preliminary larval sampling commenced on April 2<sup>nd</sup> when most larval habitats were frozen. Larval surveillance continued at weekly intervals. There were 98 visits to 48 standing water sites during the 2015 season.

These sites encompassed all the various types of habitats found in Pefferlaw and were located throughout the community. A summary table of standing water site types is provided in Table 1.

<b>Table 1 Standing Water Site Type Summary, Georgina, 2015</b>					
<b>Site Type</b>	<b>Sites Treated*</b>	<b>Visits</b>	<b>VectoBac 1200L Treatments*</b>	<b>VectoBac 200G Treatments*</b>	<b>Total Treatments*</b>
Ditch	4	30	0	4	4
Field Pool	1	7	0	2	2
Pond	1	5	0	1	1
Standing Water Zone	11	21	21	0	21
Storm Water Management Pond	0	1	0	0	0
Wetlands	1	8	0	1	1
Woodland Pool	1	26	0	1	1
<b>Totals</b>	<b>19</b>	<b>98</b>	<b>21</b>	<b>9</b>	<b>30</b>
* Treatments By Ground Crews					

*Table 1: Georgina Standing Water Surveillance & Site Type Summary, 2015.*

## Comments

There were several winter-like storms in the early spring and larval development was delayed. Larval surveillance on April 9<sup>th</sup> indicated that a few sites had advanced larval development and were treated by ground application. The start date for the main thrust of ground treatments was April 20<sup>th</sup> and for aerial was April 24<sup>th</sup>.

## Larviciding Activities

Applications using the main ground and aerial crews commenced on April 20<sup>th</sup> starting in Udora and continued through to April 28<sup>th</sup>. All potential approved larval habitats were treated regardless of whether larvae were found.

## Aerial Treatments

The aerial treatments involved two helicopters equipped with an on-board GIS navigation system. The shape-files for the *objectors* were logged into the helicopter computer to direct the larvicide applications.

All the applications were completed before mosquito pupation. Fourteen hundred and forty-seven [1447] hectares of standing water were treated by helicopter. Seven thousand two hundred and thirty-five [7235] kilograms of VectoBac 200G (PCP# 18158) were used and the average application rate was approximately 5.0 kg per hectare.

A map of the aerial application coverage by the aircraft computer may be seen in Appendix 2. When wind speeds were too high for proper dispersal of the larvicide, the aerial application was delayed until conditions became favorable.



**Figure 1. One of the helicopters used in 2015.**



## Ground Treatments

The ground application was conducted with both truck mounted and hand-held back pack sprayers. Thirty-three [33] hectares of standing water were treated by ground using [29] litres of VectoBac 1200L. The application rate was approximately 0.9 litres per hectare. Additionally there was [0.87] hectares treated by ground with eight [8.2] kilograms of VectoBac 200G during pre and post monitoring surveillance. Applications were targeted to areas such as ditches, swales and field pools on residential properties and along roads.

There were three teams which consisted of two applicators. The treatment area was divided into 11 map-zones to facilitate the coordination of the ground application program. A map displaying the area treated and amount of product used is provided on the ground treatment map in Appendix 2



**Figure 2. Ground application with truck mounted sprayer.**

## Post-Treatment Larval Monitoring

Post-treatment larval monitoring of treated sites commenced as soon as the ground larviciding was completed on April 23rd. Larval monitoring continued on a weekly basis up to May 15<sup>th</sup> and individual sites were larvicided if required. All monitoring and treatment visits are available in Appendix 4.

## Conclusions

Post-treatment monitoring done on May 1<sup>st</sup> indicated that the larviciding was successful. The timing of the applications for the ground and aerial treatments achieved the requirements of the contract, 100% larval mortality of the target habitats.

## Adult Surveillance Using Sweep Nets

Adult mosquito surveillance was conducted with sweep net counts at 10 locations on two dates, May 6<sup>th</sup> and May 14<sup>th</sup>. Eight locations were *within* the boundaries of the treatment program and two were *outside* the boundary, considered as controls. A summary table of the Adult Sweep Net Results is provided in Table 2. Adult sampling locations are provided on a map in Appendix 5.

## Results

There were two (2) adult mosquitoes caught within the treatment area and six (6) adults caught outside the control area during the first week. The second week monitoring conducted on May 14, revealed that numbers caught at 3 of the sites in town were not significantly different from the numbers at the two outside locations. No mosquitoes were caught at the other 5 adult monitoring sites in town. Weather conditions varied widely from relatively cool to quite warm during early May. The sweep net results indicate that there were very few adult mosquitoes during the first week of post-treatment surveillance and slightly increasing in the second week. However for a five minute sweep-netting the number of adults caught was still relatively low.

<b>SITE NUMBER</b>	<b>LOCATION</b>	<b>DATE</b>	<b># ADULTS</b>	<b>DATE</b>	<b># ADULTS</b>
1	4 Pinecrest Drive	6-May	0	14-May	5
2	3 Forestry Drive	6-May	2	14-May	7
3	17 Otter Cove	6-May	0	14-May	0
4	Hastings Road & Pefferlaw Road (EMS)	6-May	0	14-May	0
5	Petes Lane Library	6-May	0	14-May	8
6	22 James Street	6-May	0	14-May	0
7	546 Pefferlaw Road	6-May	0	14-May	0
8	48 Riverside Drive	6-May	0	14-May	0
9*	<i>Conc. 14 / Brock Road</i>	<i>6-May</i>	<b>6</b>	<i>14-May</i>	<b>12</b>
10*	<i>9304 Morning Glory Road</i>	<i>6-May</i>	0	<i>14-May</i>	5
<i>* Outside Control Area</i>					

**Table 2: Georgina Adult Sweep Net Surveillance Summary, 2015.**

## **Program Overview**

### **Discussion**

The commencement of the 2015 spring mosquito program was delayed by prolonged cold weather in March and April which slowed egg hatch in most habitats compared to some previous programs.

On April 9, during pre-treatment monitoring, it was noted that certain larval habitats away from the lake, historically known to have early hatch, had little or no water and no larvae (e.g. Weirs Lane road side ditches). Presumably this was due to a slow snow melt without much spring precipitation. Other larval habitats, closer to the lake

presumably where the water table is higher (e.g. Port Bolster swales and woodlot pools), had less water than in other years but had uncustomary high larval populations. So, the spring started differently than other years but by April 20<sup>th</sup> larval habitats were similar to other years.

Mosquito larvae have (4) growth stages; the first instar which emerges from the egg which grows and molts into the second stage or instar; the second molts into the third stage and the third into the fourth; the fourth stage molts to the pupal stage from which the adult eventually emerges. The larval stages are active feeding stages and when they feed on the active ingredient of the larvicide VectoBac, the bacterium B.t.i., they die. The pupal stage is a non-feeding stage and will not be controlled by the VectoBac treatment. The optimum time for the full scale ground and aerial treatments is when the majority of larvae are in the 3rd stage. This occurred on April 20<sup>th</sup> and the full scale larviciding program began and continued through to April 28<sup>th</sup>. At no time during the treatment period was the non-feeding pupal stage observed at any of the treatment sites. This would support that the treatments were appropriately timed. 100% kill of the larvae was noted at treated sites throughout the post-treatment monitoring immediately after the treatment.

Larval surveillance of treated sites from May 1<sup>st</sup> through May 14<sup>th</sup> did not indicate that there was an extended snow melt hatch had occurred beyond April 28<sup>th</sup> when treatments were completed.

Pestalto concludes that the timing, coverage and approach of the larviciding program were appropriate for the environmental conditions in 2015 and provided excellent larval control in the treated larval habitats.

On May 14<sup>th</sup>, (16) days after the last larviciding activities on April 28<sup>th</sup>, 1st and 2nd instars were noted at 1 of 14 post-treatment sampling sites. This site was treated. The new hatch indicated the beginning of the development of the summer populations.

It should be noted that there were some large areas that were not larvicided due to land being owned by *objectors* to the program.

The 2015 larviciding program from April 9<sup>th</sup> to May 15<sup>th</sup> provided control of mosquito larvae within the residential areas of the program but it does appear from the adult monitoring results that the suppression of adult nuisance mosquitoes was not as good as previous years.

Pestalto received two comments from residents that adult mosquito annoyance in May was worse compared to other years and suggested that the timing of the application was either too early or late. The adult monitoring data supports the comment that adult populations are higher; however, we can only conclude that the presence of nuisance mosquitoes in May is due to populations coming from untreatable properties and an early hatch of summer mosquitoes.

## Suggestions

1. When it comes to spring melt nuisance mosquito programs, timing is of the essence. For this reason, Pestalto recommends that the consent forms continue to be sent out as early as possible (January) and the permit application process happen well in advance of the program commencement date which is dependent on spring weather conditions.
2. Convince more objectors, especially in the area behind and to the south west of Pete's Lane, to participate in the program.

# **Appendix 1**

## **Copies of Published Public Notifications, Homeowner Mailing & E. M.S. Flyer**

January 23, 2015

File: M.4.7.1  
06494500

KENNETH LLOYD COLLINS  
SHIRLEY DIANNE COLLINS  
63 BOLSTER LANE  
P.O. BOX 13  
CANNINGTON, ON L0E1E0

Dear Sir and/or Madam:

RE: 2015 Mosquito Control Program

The Mosquito Control Program in the Pefferlaw and Port Bolster areas is being scheduled for 2015. Pestalto Environmental Health Services Inc. will carry out the program under contract with the Town of Georgina. Pestalto will conduct aerial and ground applications of the biological larvicide Vecto Bac having the active ingredient "B.t.i."

Please note that in accordance with the guidelines issued by the Ministry of the Environment pursuant to the Pesticides Act, written consent of the property owner is not required.

**Should you object to the application of the larvicide on your property you must register your objection with the Town by February 27, 2015.**


Visit the Town's website: [www.georgina.ca/mcp.aspx](http://www.georgina.ca/mcp.aspx) to register your objection electronically. Alternatively you may: sign and return the attached form by facsimile (905) 722 - 6125 or by direct mail. You may also phone (905) 722 - 6889, ext. 3501 and use the unique property identification code and access code on the attached form to register your objection. Upon receipt of your objection your property will then be excluded from the program.

Should an objection not be received either by online registration or in writing then the lack of response is assumed to indicate support of the mosquito control program.

Thank you in advance for your prompt attention.

Yours truly,

FOR THE TOWN OF GEORGINA



Gagan Sandhu, P.Eng., PMP  
Infrastructure and Operations Manager  
GS/hay  
Att.

**NOTICE OF OBJECTION TO THE APPLICATION OF LARVICIDE TO PRIVATE  
PROPERTY FOR THE PURPOSE OF NUISANCE CONTROL OF LARVAL  
MOSQUITOES – 2015**

Between April 1 and May 31, 2015 Pestalto Environmental Health Services Inc. under contract to the Town of Georgina will be conducting a ground and aerial larvicide program to mosquito habitats that impact the residents of the Pefferlaw and Port Bolster areas. The program will use applications of **VectoBac 200G** (granular, PCP#18158) and **VectoBac 1200L** (liquid, PCP#21062). Both these products are biological larvicides, with the active ingredient “B.t.i.”

The treatment area map and details of the program may be accessed by way of the **Town of Georgina’s website** at <http://georgina.ca/dpt-eng-mosquito.aspx> or at Town of Georgina Department of Operations and Engineering, 26557 Civic Centre Road, Keswick.

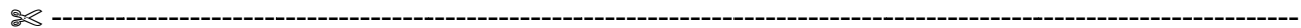
**How to Register Your OBJECTION:**

Visit the Town’s website: [www.georgina.ca/mcp.aspx](http://www.georgina.ca/mcp.aspx) to register your objection electronically. Alternatively you may: sign and return this form by facsimile (905) 722 - 6125 or direct mail. You may also phone (905) 722 - 6889, ext. 3501 and use the unique property identification code and access code to register your objection.

**OBJECTION MUST BE RECEIVED BY FEBRUARY 27, 2015.**

**NO RESPONSE IS REQUIRED IF YOU SUPPORT THE MOSQUITO CONTROL PROGRAM**

Gagan Sandhu, P.Eng., PMP  
Infrastructure and Operations Manager



Notice of objection is hereby given, as I am the owner of the following property within the treatment area and I have been notified of the intended application of a biological larvicide of VectoBac 200G (granular, PCP#18158) and VectoBac 1200L (liquid, PCP#21062) to water on or near my property and I:



**OBJECT**

**Property Identification Code:** Roll Number  
**Access Code:**

<b>Names</b>	Telephone: (    )	Fax: (    )
<b>Address</b>		
«City»,	«Prov»	Postal Code: «Postal_Code»
Signature:		Date:

**IMPORTANT:** If you do not return a signed **objection form** it will imply support of the program and your property will be treated as may be appropriate in the 2015 Mosquito Abatement Program.





# Georgina

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@georginaown

www.georgina.ca

Committed to Serving You Better

26557 Civic Centre Rd. Keswick • 905-476-4301 • 905-722-6516 • 705-437-2210

## WEEKLY UPCOMING MEETINGS

TOWN OF GEORGINA

UPCOMING COUNCIL & SPECIAL COUNCIL MEETINGS		
Wednesday, April 1	COUNCIL	9:00am
Wednesday, April 8	COUNCIL	7:00pm
Wednesday, April 15	COUNCIL	7:00pm
Wednesday, April 22	SPECIAL COUNCIL	9:00am

## WATER & SEWER BUDGET & USER RATES

### PUBLIC NOTICE WATER AND SEWER BUDGET AND USER RATES

TAKE NOTICE that Council will be considering a report to approve the 2015 Rate-Supported Budget for Water and Sewer Capital and Operations and a draft by-law to establish the water and sewer user rates effective on all billings produced on or after April 1, 2015 at their meeting scheduled for Wednesday, April 1, 2015 commencing at 9:00 a.m. in the Council Chambers at the Town of Georgina Civic Centre, 26557 Civic Centre Road, Keswick.

The agenda for the above-mentioned meeting will be available on the Town website [www.georgina.ca](http://www.georgina.ca) on March 26, 2015.

Please forward any comments or questions to Myrel Hamilton via e-mail at [mhamilton@georgina.ca](mailto:mhamilton@georgina.ca) or via telephone at 905-476-4301, ext. 2202.

Dated at the Town of Georgina this 18<sup>th</sup> day of March 2015.

John Ephraim, Town Clerk

## 2015 MOSQUITO PROGRAM

### NOTICE OF GROUND AND AERIAL LARVICIDE APPLICATION FOR THE CONTROL OF LA RIVAL MOSQUITOES FOR HUISANIC ECOTRILL

Between April 1 and May 15, 2015, Pestabio Environmental Health Services Inc. will be applying a biological larvicide by air and ground to stagnant water in order to control larval mosquitoes that impact on the residents of Pelee, Port Biddle and Uxora. The applications are weather dependent and are likely to occur from April 15.

Specifically, the sites to be treated lie within the area bounded north by Lake Simcoe, to the East by Lake Ridge Road, to the South by the western boundary of Rosey's Drive (the unopened 2<sup>nd</sup> Concession Road Allowance) and to the West by Water Street.

The program will use multiple applications of the biological larvicide VectoStar 200G (P.P. 01-65), granular and VectoStar 1200L (P.P. 02-65), liquid. The granular will be applied by helicopter and the liquid by hand mounted and backpack sprayers.

The treatment area map and program details may be accessed at the Town of Georgina Engineering Division, 26557 Civic Centre Road, Keswick, or the Town of Georgina website [www.georgina.ca](http://www.georgina.ca).

For further information regarding the larvicide application contact Pestabio:

Kevin Taylor 1-866-648-7778, 226-4 or 619-362-6176 or [kevin.taylor@pestabio.com](mailto:kevin.taylor@pestabio.com)

## 2015 DOG LICENCES

### TOWN OF GEORGINA PUBLIC NOTICE 2015 DOG LICENCES

THE 2015 Dog Licences can be purchased at the following locations:

- |   |   |
|---|---|
| • Bodley's Furniture<br>245 Pelee Ave<br>• Dalton Road Animal Clinic<br>20125 Dalton Road<br>• Georgina Veterinary Clinic<br>25114 Hwy 48<br>• Global Pet Foods<br>448 The Queensway (Keswick)<br>• Pet Valu - 24015 Woodbine Avenue<br>(Markham Plaza) | • Pet Valu<br>20837 Dalton Road<br>• South Shore Veterinary Clinic<br>782 The Queensway<br>• Uxora General Store<br>9 Middle Street<br>• Keswick Pet Hospital<br>28 The Queensway |
|---|---|

Dog licenses can also be purchased during the year at the Civic Centre at 26557 Civic Centre Road, or at the Animal Control and Adoption Centre at 26515 Civic Centre Road. Application forms can also be downloaded from the Town's website at [www.georgina.ca](http://www.georgina.ca). The dog licence fee is \$35.00 per dog if not spayed or neutered and \$20.00 per dog if spayed or neutered. The fee for failing to purchase a dog licence is \$125.00 or per By-Law No. 200-04180 (L-3).

## FLASHING GREEN & RED LIGHTS

If you see a flashing red or green light while you're driving...

Please, have the courtesy to pull over to the right.

These are firefighters, who could be on their way to save someone's life!



## 1ST YARD WASTE COLLECTION

Week of April 13, 2015

ALTERNATING WEEKS:

Garbage, Green Bin and Blue Box  
Yard Waste, Green Bin and Blue Box

## NOTICE OF PASSING BY-LAW SOLID FUEL APPLIANCES



TOWN OF GEORGINA

26557 Civic Centre Road, Keswick, ON M3J 1K1

### NOTICE OF PASSING OF A MUNICIPAL ACTS BY-LAW THE CORPORATION OF THE TOWN OF GEORGINA

TAKE NOTICE that the Council of the Corporation of the Town of Georgina passed By-law Number 2015-0044 and repealed By-law Number 2014-0002 (PEG-1) and on the 11<sup>th</sup> day of March, 2015, pursuant to the Municipal Act, 2001.

An explanation of the By-law is outlined below:

A complete By-law is available for viewing in the Clerk's Division during regular office hours.

Dated at the Town of Georgina this 20<sup>th</sup> day of March, 2015.

*John Ephraim*  
Town Clerk  
City Corporation of the Town of Georgina

APPLICANT/OWNER: TOWN INITIATED  
OUTDOOR SOLID-FUEL COMBUSTION APPLIANCES

LEGAL DESCRIPTION: All properties within the geographic boundaries of the Town of Georgina

EXPLANATION: To regulate outdoor solid-fuel combustion appliances and to prohibit the burning of certain materials and liquids in Outdoor solid-fuel combustion appliances and indoor woodburning appliances in the Town of Georgina. By-law 2015-0044 now includes a formalized review process for evaluating site-specific exemption requests to the By-law.

## WEDDING FLYER



## Getting Married?

facebook.com/TownofGeorgina  
[www.georgina.ca](http://www.georgina.ca)



## The Town of Georgina Clerk's Department can marry you!

Whether your special day happens at the Civic Centre during business hours or at a location of your choice after hours, one of our officials would be happy to share your special day with you.

Please talk to the Clerk's Department for more details  
905-476-4301, ext. 2291

Wedding during business hours at Civic Centre Grounds 5209 4<sup>th</sup> St  
During non-business hours at a location of your choice \$300 4<sup>th</sup> St

## @ LIBRARY

Easter Hours  
Closed Good Friday, April 3  
Open Saturday, April 4  
Open Sunday, April 5  
Closed Monday, April 6



Drive/Drive Big Library Read:  
Shakespeare Saved My Life  
There is still time to join the Big Library Read, the first-ever "global eBook club," connecting readers around the world who read the same eBook, and listen to the same audiobook at the same time.  
During March 17-March 31, the Big Library Read is available for checkout online. It's free, and there's never a waiting list. All you need is a library card. Books' top-an-dust-kissin'!

9<sup>th</sup> Annual Grate Green-Up Spelling Bee  
Friday, April 24, 6:30pm; Kinsman Hall, Sutton  
Friends of the Library Spelling Bee helps to raise money for family literacy initiative in our community.  
How can you get involved? sharpen those spelling skills and put together a team of three adults and compete to be named Best Spellers in Georgina. Spelling not your forte? Participate by becoming a sponsor.  
Evening includes a buffet dinner, door prizes, a silent auction and, of course, a trophy presentation. Check out our website to find out more.

Come to your library for book clubs, computer & e-reader help, crocheting & knitting, music & movies, writing group, yoga & so much more for kids, tweens, teens and adults.

You can go anywhere from here....



## EMPLOYMENT OPPORTUNITIES

The Town of Georgina currently accepts applications for the following positions:  
Branch Director, Fire 2015-11-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1223-1224-1225-1226-1227-122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## Notice of Ground and Aerial Larvicide Application for the Control of Larval Mosquitoes in Pefferlaw & Udora.

Between April 17 and April 24, 2015 the Town of Georgina, in cooperation with Pestalto Environmental Health Services Inc. will be conducting a ground and aerial larvicide program to mosquito habitats that impact on the residents of the Pefferlaw and Port Bolster areas. The program will use multiple application of VectoBac 200G (PCP#18158) and VectoBac 1200L (PCP#21062). These products are *biological larvicides*, with the active ingredient “B.t.i.”.

Please be advised that we will be using a helicopter based out of the Town of Georgina's Agregate Pit located at **8376 Smith Blvd** for the landing and take-off site for the Mosquito Control Program.



Use of the site is scheduled to begin on Monday April 20th . Aerial applications will commence at 7am and should take approximately 3 days depending on weather conditions. The landing area will be fenced in order to protect the operators, equipment during refill operations.

Please see the attached MSDS sheets for the larvicides. A Ministry of Environment Permit has been issued for this program. We regret any inconvenience this may cause.

For further information please contact Kevin Taylor of Pestalto Environmental Health Services Inc. at 519-362-5175 or by email [kevin.taylor@pestalto.com](mailto:kevin.taylor@pestalto.com)

## **Appendix 2**

# **Maps of the Proposed Larval Mosquito Treatment Area, & Aerial and Ground Treatments**





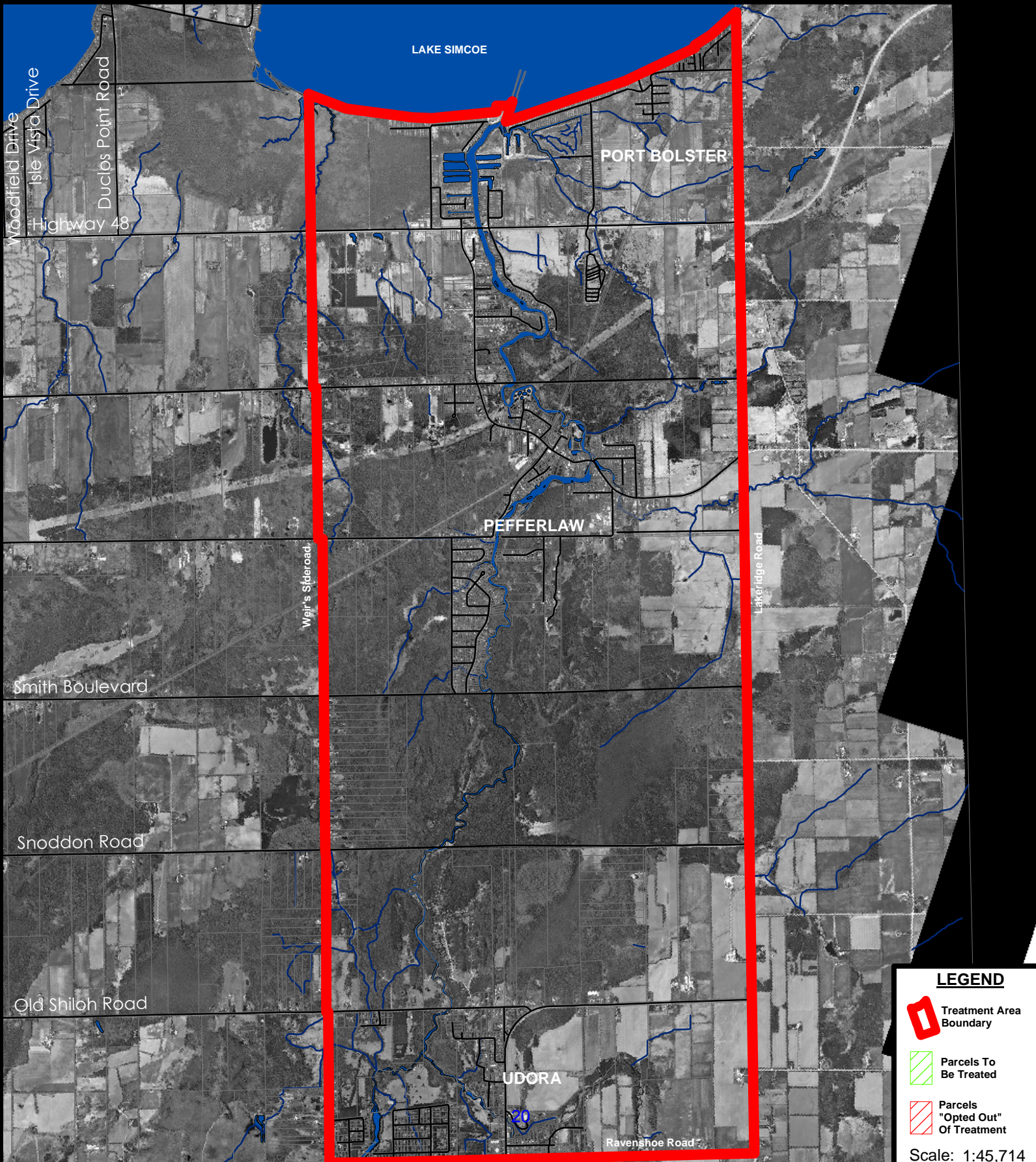
# TOWN OF GEORGINA Department of Operations & Engineering



## 2015 MOSQUITO ABATEMENT PROGRAM TREATMENT AREA MAP (PEFFERLAW, PORT BOLSTER AND UDORA)



2013 Orthophotography  
Map by: JMC



**LEGEND**

-  Treatment Area Boundary
-  Parcels To Be Treated
-  Parcels "Opted Out" Of Treatment

Scale: 1:45,714

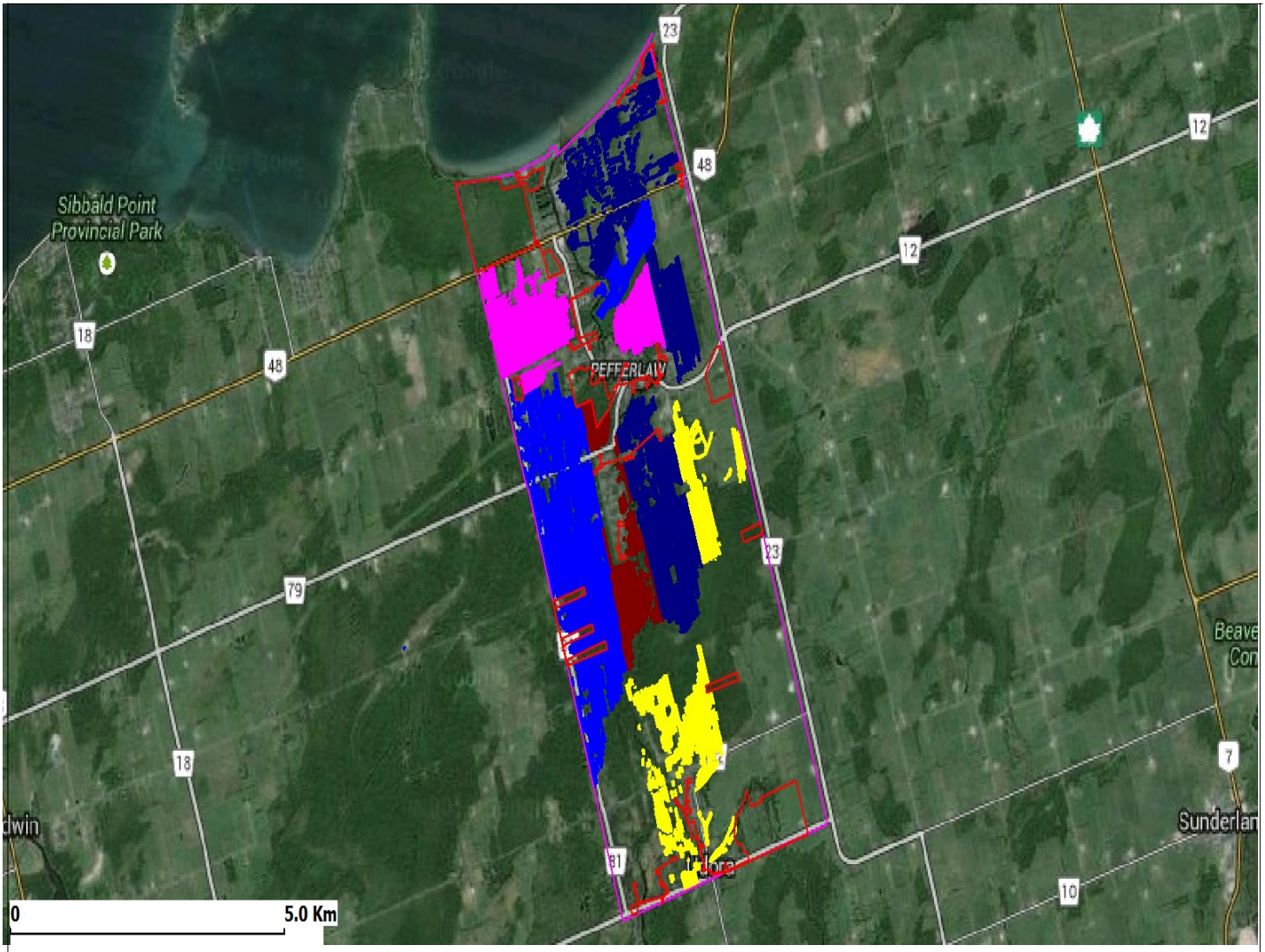


Company Zimmer Air Service  
Address

# Georgina 2015



Location Pefferlaw  
Date April 28, 2015



**Area Name:** geo2015

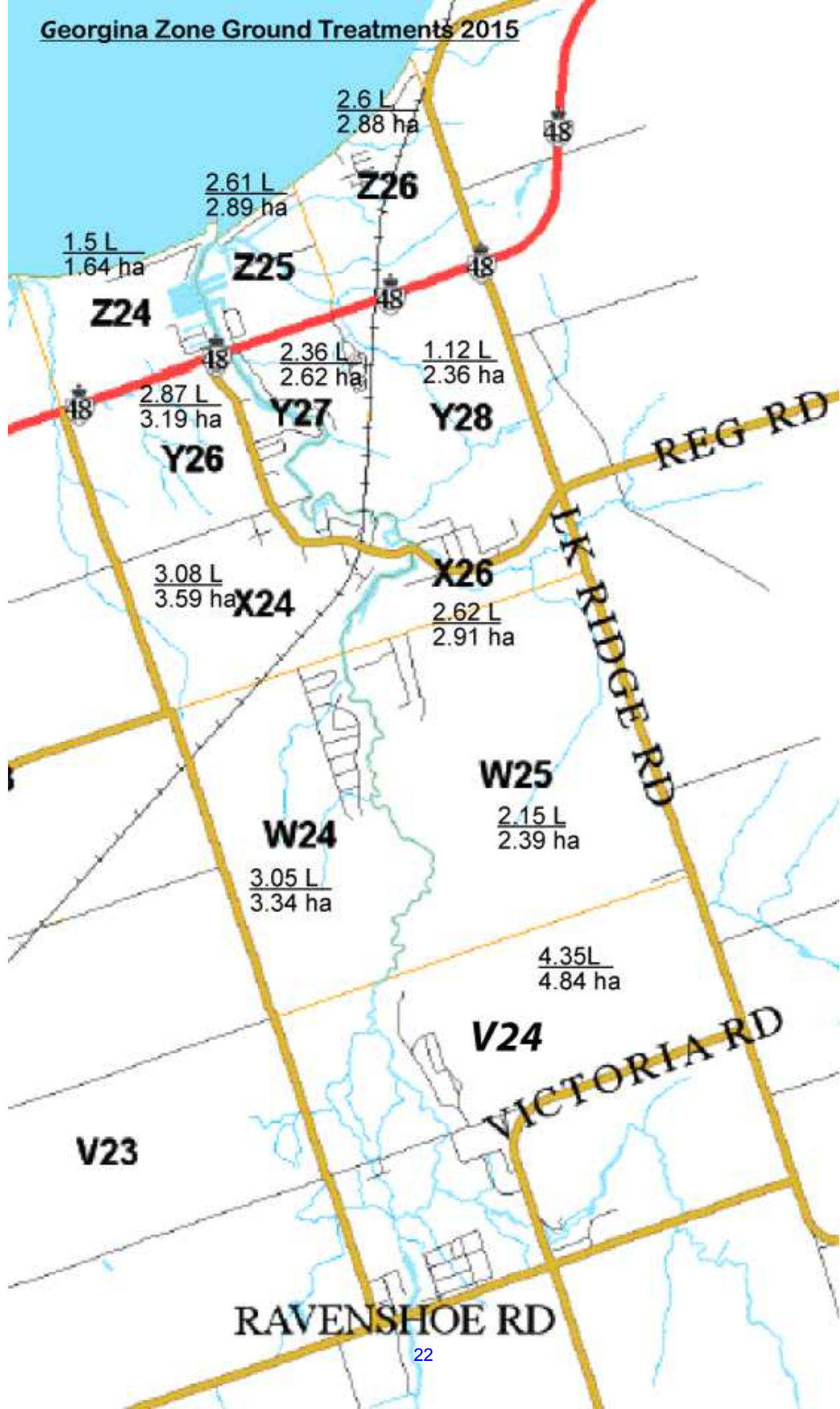
- |  |   |
|--|---|
|  April 24, 2015 AM |  April 26, 2015 PM |
|  April 25, 2015 PM |  April 28, 2015 AM |
|  April 26, 2015 AM |  April 28, 2015 PM |

## Spray Summary

Client: Pestalto	Product: Vectobac	Sprayed Area: 1,447 Ha
Pilot: Randy and Charles	Applic Rate: 5 L/Ha	
Operator: Zimmer		
Aircraft: FNJ and FEC		
Swath: 33.3 Meters		

Notes:

**Georgina Zone Ground Treatments 2015**



## **Appendix 3**

### **Copy of Ministry of Environment Permits**



Ministry of the Environment and Climate Change  
Ministère de l'Environnement et de l'Action en  
matière de changement climatique

**PESTICIDE PERMIT**  
Perform A Water Extermination  
PERMIT NUMBER 8875-9V4LMN

*Pursuant to Section 7 of the Pesticides Act R.S.O. of 1990, this Perform A Water Extermination Permit is hereby issued to:*

Paul Zimmer  
Zimmer Air Services Inc.  
9742 Burk Line  
Blenheim, Ontario, N0P 1A0  
Canada

**Treatment Site:** Georgina nuisance mosquito larviciding program  
in the vicinity of Port Bolster, Pefferlaw and Udora  
Aerial treatment to private and municipal property  
Georgina, Regional Municipality of York

*For the purpose of this Permit and the terms and conditions specified below, the following definitions apply:*

**1. DEFINITIONS**

- (a) "Ministry" means the Ontario Ministry of the Environment and Climate Change.
- (b) "Pesticide" means the pest control products and associated Pest Control Products Act No. specified in this Permit
- (c) "Director" means any Ministry employee appointed by the Minister under *Section 3(1) of the Pesticides Act*.
- (d) "Permit" means this *Perform A Water Extermination* permit issued in accordance with *Section 7 of the Pesticides Act*.



**2. TERMS**

<b>1.Pesticide</b>		<b>PCP No.</b>	<b>Ontario Class</b>
VECTOBAC-200G BIOLOGICAL LARVICIDE		18158	3
<b>Size of Treatment Area</b>	<b>Maximum Application Rate</b>	<b>Amount of Pesticide to be applied</b>	<b>Treatments authorized</b>
2200 ha	10 Kg(product)/ha	22000 Kg	2
<b>Description of treatment location:</b>	Maximum of two aerial treatments to stagnant surface water		
<b>Treatment Period:</b>	April 1 2015 to May 31 2015		

**3. CONDITIONS**

1. This permit expires on June 1, 2015.
2. This permit is not transferable to another person.
3. The permit holder shall provide a copy of this permit to the licensed exterminator prior to commencing the extermination.
4. The permit holder shall report immediately incidents involving human health or environmental effects such as damage to property resulting from the use of the pesticide to the local Ministry of the Environment and Climate Change District Office or to the Spills Action Centre at 1-800-268-6060.
5. The permit holder shall submit a request for an amendment to this permit and obtain approval from the ministry before any additional area is treated or pesticide is used not authorized by this permit.
6. The permit hold shall ensure public notification of the extermination is provided using a newspaper notice. The notice shall appear in a newspaper of general circulation in the vicinity of the treatment site at least 48 hours before but not more than seven days before the treatment date and repeated monthly until the last treatment. The notice shall include the following:
  - i. treatment date
  - ii. description of the treatment site
  - iii. name of the pest
  - iv. brand or trade name of the pesticide
  - v. formulation of the pesticide
  - vi. name of the pesticide ingredient
  - vii. registration number of the pesticide assigned to it under the *Pest Control Products Act*

(Canada)

- viii. name and phone number of the permit holder or designated representative who can provide more information about the treatment
  - ix. statement stating collect calls will be accepted if long distance charges would be incurred
7. The permit holder shall notify the Central Region Pesticides Specialist at least 48 hours prior to commencing the extermination.
8. The permit holder shall submit a report to the Central Region Pesticides Specialist within two months of completing the extermination that includes the following:
- i. map indicating actual treatment areas
  - ii. number of treatments
  - iii. treatment dates
  - iv. copies of the actual notices used for public notification
  - v. brand or trade name of the pesticide used, the registration number of the pesticide assigned to it under the *Pest Control Products Act* (Canada), rate of application, and quantity applied
  - vi. details of any incidents involving the pesticide used and the remedial actions taken
  - vii. effectiveness of the extermination as determined by monitoring of the target mosquito species in the pesticide treatment area before and after the extermination

#### **4. APPEALS AND NOTIFICATION**

*In accordance with section 13(9) of the Pesticides Act, R. S. O. 1990, Chapter P. 11, as amended, you may by written notice served upon the Director require that the Director, within 3 days of receipt of such notice, vary, rescind or confirm his or her decision. The Director, within 3 days of receipt of such notice shall serve or cause to be served upon you this decision together with his or her written reasons therefor and where the Director varies or rescinds the decision, the Director shall take such action as may be necessary to make the variation or rescission effective.*

*In accordance with section 13(10) of the Pesticides Act, R. S. O. 1990, Chapter P. 11, as amended, you may by written notice served upon the Director and the Environmental Review Tribunal, within 15 days of service upon you of the notice under section 13(9) of the Pesticides Act, request a hearing of the Environmental Review Tribunal.*

*This notice must be served upon:*

*The Secretary  
Environmental Review Tribunal  
655 Bay Street, 15th Floor  
Toronto ON  
M5G 1E5  
Fax: (416) 314-4506  
Email: ERTTribunalsecretary@ontario.ca*

AND

*The Director  
Section 7, Pesticides Act  
Ministry of the Environment and Climate  
Change  
8th Floor  
5775 Yonge St  
Toronto ON M2M 4J1  
Fax: (416) 325-6347*

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The Pesticide Permit number;
4. The date of the Pesticide Permit;
5. The name of the Director;
6. The municipality within which the Pesticide Permit is located;

**\* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)**

Permission is hereby granted under the *Pesticides Act and Regulations* to perform an extermination in accordance with the application and the following supporting information:

<b>Document:</b>	<b>Author:</b>	<b>Version Date:</b>
Letter	Town of Georgina	2015/01/26
Letter	Zimmer Air Services Inc.	2015/01/21
Treatment Area Map	Pestalto Environmental Health Services Inc.	2015/01/20
List of Objectors	Pestalto Environmental Health Services Inc.	2015/03/30

Dated at Toronto this 30th day of March, 2015.



Dan Delaquis  
Director  
Section 7, Pesticides Act



Ministry of the Environment and Climate Change  
Ministère de l'Environnement et de l'Action en  
matière de changement climatique

**PESTICIDE PERMIT**

Perform A Water Extermination  
PERMIT NUMBER 0166-9V4LTD

*Pursuant to Section 7 of the Pesticides Act R.S.O. of 1990, this Perform A Water Extermination Permit is hereby issued to:*

Kevin Taylor  
Pestalto Environmental Health Services Inc.  
501 Rennie St  
Hamilton, Ontario, L8H 3P6  
Canada

**Treatment Site:** Georgina nuisance mosquito larviciding program  
in the vicinity of Port Bolster, Pefferlaw and Udora  
Ground treatments to private and municipal property  
Georgina, Regional Municipality of York

*For the purpose of this Permit and the terms and conditions specified below, the following definitions apply:*

**1. DEFINITIONS**

- (a) "Ministry" means the Ontario Ministry of the Environment and Climate Change.
- (b) "Pesticide" means the pest control products and associated Pest Control Products Act No. specified in this Permit
- (c) "Director" means any Ministry employee appointed by the Minister under *Section 3(1) of the Pesticides Act*.
- (d) "Permit" means this *Perform A Water Extermination* permit issued in accordance with *Section 7 of the Pesticides Act*.

**2. TERMS**

<b>1.Pesticide</b>		<b>PCP No.</b>	<b>Ontario Class</b>
VECTOBAC 1200L BIOLOGICAL LARVICIDE		21062	3
<b>Size of Treatment Area</b>	<b>Maximum Application Rate</b>	<b>Amount of Pesticide to be applied</b>	<b>Treatments authorized</b>
250 ha	1 L(product)/ha	100 L	10
<b>Description of treatment location:</b>	Multiple ground treatments to stagnant surface water		
<b>Treatment Period:</b>	April 1 2015 to May 31 2015		

<b>2.Pesticide</b>		<b>PCP No.</b>	<b>Ontario Class</b>
VECTOBAC-200G BIOLOGICAL LARVICIDE		18158	3
<b>Size of Treatment Area</b>	<b>Maximum Application Rate</b>	<b>Amount of Pesticide to be applied</b>	<b>Treatments authorized</b>
250 ha	10 Kg(product)/ha	500 Kg	10
<b>Description of treatment location:</b>	Multiple ground treatments to stagnant surface water		
<b>Treatment Period:</b>	April 1 2015 to May 31 2015		

### **3. CONDITIONS**

1. This permit expires on June 1, 2015.
2. This permit is not transferable to another person.
3. The permit holder shall provide a copy of this permit to the licensed exterminator prior to commencing the extermination.
4. The permit holder shall report immediately incidents involving human health or environmental effects such as damage to property resulting from the use of the pesticide to the local Ministry of the Environment and Climate Change District Office or to the Spills Action Centre at 1-800-268-6060.
5. The permit holder shall submit a request for an amendment to this permit and obtain approval from the ministry before any additional area is treated or pesticide is used not authorized by this permit.
6. The permit hold shall ensure public notification of the extermination is provided using a newspaper notice. The notice shall appear in a newspaper of general circulation in the vicinity of the treatment site at least 48 hours before but not more than seven days before the treatment date and repeated monthly until the last treatment. The notice shall include the following:
  - i. treatment date
  - ii. description of the treatment site
  - iii. name of the pest
  - iv. brand or trade name of the pesticide
  - v. formulation of the pesticide
  - vi. name of the pesticide ingredient
  - vii. registration number of the pesticide assigned to it under the *Pest Control Products Act* (Canada)
  - viii.name and phone number of the permit holder or designated representative who can provide more information about the treatment
  - ix. statement stating collect calls will be accepted if long distance charges would be incurred
7. The permit holder shall notify the Central Region Pesticides Specialist at least 48 hours prior to commencing the extermination.
8. The permit holder shall submit a report to the Central Region Pesticides Specialist within two months of completing the extermination that includes the following:
  - i. map indicating actual treatment areas
  - ii. number of treatments

- iii. treatment dates
- iv. copies of the actual notices used for public notification
- v. brand or trade name of the pesticide used, the registration number of the pesticide assigned to it under the *Pest Control Products Act* (Canada), rate of application, and quantity applied
- vi. details of any incidents involving the pesticide used and the remedial actions taken
- vii. effectiveness of the extermination as determined by monitoring of the target mosquito species in the pesticide treatment area before and after the extermination

#### **4. APPEALS AND NOTIFICATION**

*In accordance with section 13(9) of the Pesticides Act, R. S. O. 1990, Chapter P. 11, as amended, you may by written notice served upon the Director require that the Director, within 3 days of receipt of such notice, vary, rescind or confirm his or her decision. The Director, within 3 days of receipt of such notice shall serve or cause to be served upon you this decision together with his or her written reasons therefor and where the Director varies or rescinds the decision, the Director shall take such action as may be necessary to make the variation or rescission effective.*

*In accordance with section 13(10) of the Pesticides Act, R. S. O. 1990, Chapter P. 11, as amended, you may by written notice served upon the Director and the Environmental Review Tribunal, within 15 days of service upon you of the notice under section 13(9) of the Pesticides Act, request a hearing of the Environmental Review Tribunal.*

*This notice must be served upon:*

*The Secretary  
Environmental Review Tribunal  
655 Bay Street, 15th Floor  
Toronto ON  
M5G 1E5  
Fax: (416) 314-4506  
Email: [ERTTribunalsecretary@ontario.ca](mailto:ERTTribunalsecretary@ontario.ca)*

AND

*The Director  
Section 7, Pesticides Act  
Ministry of the Environment and Climate  
Change  
8th Floor  
5775 Yonge St  
Toronto ON M2M 4J1  
Fax: (416) 325-6347*

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The Pesticide Permit number;
4. The date of the Pesticide Permit;
5. The name of the Director;
6. The municipality within which the Pesticide Permit is located;

**\* Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)**

Permission is hereby granted under the *Pesticides Act and Regulations* to perform an extermination in accordance with the application and the following supporting information:

<b>Document:</b>	<b>Author:</b>	<b>Version Date:</b>
Letter	Town of Georgina	2015/01/26
Letter	Pestalto Environmental Health Services Inc.	2015/02/02
Treatment Area Map	Pestalto Environmental Health Services Inc.	2015/02/02
List of Objectors	Pestalto Environmental Health Services Inc.	2015/03/30

Dated at Toronto this 30th day of March, 2015.



Dan Delaquis  
Director  
Section 7, Pesticides Act



# **Appendix 4**

## **Standing Water Surveillance**

### **Data & Treatments**

Municipality	Address	Site Type	Map ID	Date	Stage	Organic Matter	Pool Area (m2)	Sample Count	Pool Rating	Treatment	Visit Count
Georgina	Forestry Drive South of 3 Brook Crescent West South of Road	Ditch	YODI116659	4/2/2015	<i>SURV</i>	Dry	Dry	0	Dry	No	4
Georgina	North of 24189 Weirs Side Road Across Road from Georgina Auto Wreckers	Ditch	YOWP115893	4/2/2015	<i>SURV</i>	Dry	Dry	0	Dry	No	4
Georgina	In York Regional Forest access from 111 Forestry Drive	Woodland Pool	YOWP116651	4/2/2015	<i>SURV</i>	LOW	200	0	NIL	No	1
Georgina	South of 3 Forestry Drive	Woodland Pool	YOWP116665	4/2/2015	<i>SURV</i>	Dry	Dry	0	Dry	No	5
Georgina	South side of Petes Lane 90m west of number 95	Ditch	YODI116650	4/2/2015	<i>SURV</i>	LOW	150	0	NIL	No	1
Georgina	95 Pete's Lane adjacent to pst4 and pst 6	Field Pool	YOF115924	4/2/2015	<i>SURV</i>	Dry	Dry	0	Dry	No	1
Georgina	off Petes Lane 10m west of Godfrey Drive Go down Godfrey Lane about 10 m and walk into woods to reach ATV trail than walk back towards Petes Lane to see numerous pools	Woodland Pool	YOWP116637	4/2/2015	<i>SURV</i>	Dry	Dry	0	Dry	No	1
Georgina	174 Irving Drive drainage ditches along driveway and neighbouring driveway	Woodland Pool	YODI115897	4/3/2015	<i>SURV</i>	MOD	60	2	LOW	No	5
Georgina	20 Bolster Lane flooded woodlands	Field Pool	YOF115917	4/3/2015	<i>SURV</i>	LOW	400	1	LOW	No	5
Georgina	174 Irving 30m south of road	Pond	YOUK116640	4/3/2015	<i>SURV</i>	LOW	60	0	NIL	No	5
Georgina	20 metres north of railroad tracks woodlands before Bolster Lane	Woodland Pool	YOUK116641	4/3/2015	<i>SURV</i>	LOW	500	0	NIL	No	4
Georgina	Opposite 124 Irving Drive Wetlands	Woodland Pool	YOWP115898	4/3/2015	<i>SURV</i>	LOW	100	0	NIL	No	3
Georgina	Opposite 151 Forestry Drive Other side of Road	Ditch	YODI115902	4/14/2015	<i>SURV</i>	LOW	400	0	NIL	No	4
Georgina	Forestry Drive South of 3 Brook Crescent West South of Road	Ditch	YODI116659	4/14/2015	<i>SURV</i>	LOW	30	0	NIL	No	4
Georgina	Forestry Drive near end enter road blocked trail in 400 metres to large bog	Wetlands	YOWL118964	4/14/2015	<i>SURV</i>	LOW	2500	10	MOD	No	1
Georgina	North of 24189 Weirs Side Road Across Road from Georgina Auto Wreckers	Ditch	YOWP115893	4/14/2015	<i>PRE</i>	LOW	64	8	MOD	Yes	4
Georgina	South of 3 Forestry Drive	Woodland Pool	YOWP116665	4/14/2015	<i>SURV</i>	LOW	7000	0	NIL	No	5
Georgina	59 Petes Lane back into wetlands 200 meters	Wetlands	YOWL116646	4/14/2015	<i>PRE</i>	LOW	900	21	MOD	Yes	1
Georgina	Petes Lane York Forest entrance follow trail in 400 metres to bog on either side of trail	Wetlands	YOWL118966	4/14/2015	<i>SURV</i>	LOW	2500	0	NIL	No	1
Georgina	40 metres south of Petes Lane East of Godfrey Drive	Woodland Pool	YOWP116666	4/14/2015	<i>SURV</i>	LOW	400	3	LOW	No	2
Georgina	On the north side of Station Street 30m south west of Kenneth Street In bw road and railroad tracks	Ditch	YODI116652	4/14/2015	<i>SURV</i>	LOW	500	2	LOW	No	2
Georgina	End of Lindell Road by and South of Number 18	Woodland Pool	YOWP115896	4/14/2015	<i>SURV</i>	LOW	400	0	NIL	No	1
Georgina	38 Petes Lane ditches within Lions Park and Library	Ditch	YODI118967	4/14/2015	<i>SURV</i>	LOW	100	0	NIL	No	1
Georgina	near 60 Halmar Park Road down slope from mailbox 75 metres safer to walk down	Wetlands	YOWL115904	4/14/2015	<i>SURV</i>	LOW	900	0	NIL	No	1
Georgina	Durham 23 Lake Ridge Road on map one point three km south of 48 West side	Ditch	YODI115899	4/14/2015	<i>SURV</i>	LOW	500	0	NIL	No	1
Georgina	Highway 48 west side of 30977 on south side of road by in front of storage unit	Storm Water Management Pond	YOSW115922	4/14/2015	<i>SURV</i>	LOW	1600	0	NIL	No	1
Georgina	28 Riverside Drive	Ditch	YODI116658	4/14/2015	<i>SURV</i>	LOW	30	0	NIL	No	3
Georgina	ditch across the road from 42 Irving Drive	Ditch	YODI116660	4/14/2015	<i>PRE</i>	MOD	60	7	MOD	Yes	2
Georgina	Across Road from 132 Irving Drive	Ditch	YODI115895	4/14/2015	<i>SURV</i>	LOW	500	11	MOD	No	3
Georgina	174 Irving Drive drainage ditches along driveway and neighbouring driveway	Woodland Pool	YODI115897	4/14/2015	<i>SURV</i>	LOW	50	0	NIL	No	5
Georgina	20 Bolster Lane flooded woodlands	Field Pool	YOF115917	4/14/2015	<i>PRE</i>	LOW	5000	30	MOD	Yes	5
Georgina	174 Irving 30m south of road	Pond	YOUK116640	4/14/2015	<i>PRE</i>	MOD	60	2	LOW	Yes	5
Georgina	20 metres north of railroad tracks woodlands before Bolster Lane	Woodland Pool	YOUK116641	4/14/2015	<i>PRE</i>	MOD	2500	40	HIGH	Yes	4
Georgina	Zone V 24	Standing Water Zone	YOZN000V24	4/20/2015	<i>PRE</i>	LOW	48360	44	HIGH	Yes	1
Georgina	Zone Z 24	Standing Water Zone	YOZN000Z24	4/20/2015	<i>PRE</i>	LOW	10830	55	HIGH	Yes	2
Georgina	Zone Z 25	Standing Water Zone	YOZN000Z25	4/20/2015	<i>PRE</i>	LOW	11940	134	HIGH	Yes	2
Georgina	Zone Z 26	Standing Water Zone	YOZN000Z26	4/20/2015	<i>PRE</i>	LOW	11390	48	HIGH	Yes	2
Georgina	Zone W 24	Standing Water Zone	YOZN000W24	4/21/2015	<i>PRE</i>	LOW	14940	140	HIGH	Yes	2
Georgina	Zone W 25	Standing Water Zone	YOZN000W25	4/21/2015	<i>PRE</i>	LOW	21780	82	HIGH	Yes	2
Georgina	Zone X 24	Standing Water Zone	YOZN000X24	4/21/2015	<i>PRE</i>	LOW	15550	84	HIGH	Yes	2
Georgina	Zone X 26	Standing Water Zone	YOZN000X26	4/21/2015	<i>PRE</i>	LOW	13390	96	HIGH	Yes	2
Georgina	Zone Y 26	Standing Water Zone	YOZN000Y26	4/21/2015	<i>PRE</i>	LOW	19980	58	HIGH	Yes	2
Georgina	Zone Y 27	Standing Water Zone	YOZN000Y27	4/21/2015	<i>PRE</i>	LOW	16830	56	HIGH	Yes	2
Georgina	Zone Y 28	Standing Water Zone	YOZN000Y28	4/21/2015	<i>PRE</i>	LOW	14720	70	HIGH	Yes	2
Georgina	Zone Z 24	Standing Water Zone	YOZN000Z24	4/21/2015	<i>PRE</i>	LOW	5887	45	HIGH	Yes	2
Georgina	Zone Z 25	Standing Water Zone	YOZN000Z25	4/21/2015	<i>PRE</i>	LOW	17030	60	HIGH	Yes	2

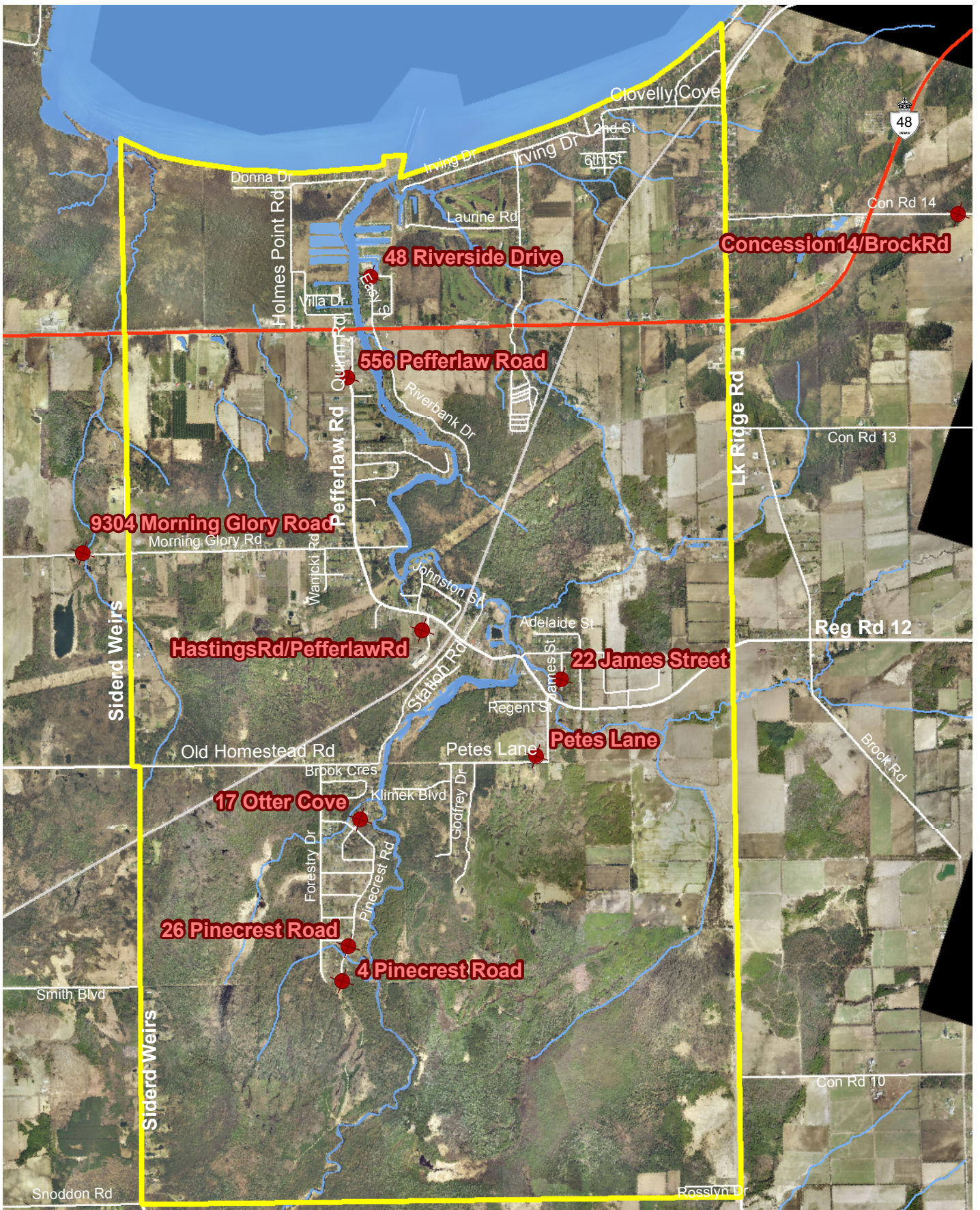
Georgina	Zone	Standing Water Zone	YOZN000Z26	4/21/2015	PRE	LOW	17440	40	HIGH	Yes	2
Georgina	Zone W 24	Standing Water Zone	YOZN000W24	4/22/2015	PRE	LOW	18930	80	HIGH	Yes	2
Georgina	Zone W 25	Standing Water Zone	YOZN000W25	4/22/2015	PRE	LOW	2103	43	HIGH	Yes	2
Georgina	Zone X 24	Standing Water Zone	YOZN000X24	4/22/2015	PRE	LOW	20380	50	HIGH	Yes	2
Georgina	Zone X 26	Standing Water Zone	YOZN000X26	4/22/2015	PRE	LOW	15770	74	HIGH	Yes	2
Georgina	Zone Y 26	Standing Water Zone	YOZN000Y26	4/22/2015	PRE	LOW	11940	153	HIGH	Yes	2
Georgina	Zone Y 27	Standing Water Zone	YOZN000Y27	4/22/2015	PRE	LOW	9389	54	HIGH	Yes	2
Georgina	Zone Y 28	Standing Water Zone	YOZN000Y28	4/22/2015	PRE	LOW	8833	175	HIGH	Yes	2
Georgina	Opposite 151 Forestry Drive Other side of Road	Ditch	YODI115902	4/23/2015	SURV	MOD	30	0	NIL	No	4
Georgina	Forestry Drive South of 3 Brook Crescent West South of Road	Ditch	YODI116659	4/23/2015	PRE	MOD	20	5	LOW	Yes	4
Georgina	North of 24189 Weirs Side Road Across Road from Georgina Auto Wreckers	Ditch	YOWP115893	4/23/2015	SURV	MOD	64	10	MOD	No	4
Georgina	9593 Old Homestead corner at Weirs Laneat south east corner	Woodland Pool	YOWP115926	4/23/2015	SURV	MOD	20	0	NIL	No	1
Georgina	South of 3 Forestry Drive	Woodland Pool	YOWP116665	4/23/2015	SURV	MOD	80	0	NIL	No	5
Georgina	Opposite 151 Forestry Drive Other side of Road	Ditch	YODI115902	5/1/2015	POST	Dry	Dry	0	Dry	No	4
Georgina	North of 24189 Weirs Side Road Across Road from Georgina Auto Wreckers	Ditch	YOWP115893	5/1/2015	POST	LOW	36	0	NIL	No	4
Georgina	South of 3 Forestry Drive	Woodland Pool	YOWP116665	5/1/2015	POST	LOW	1600	0	NIL	No	5
Georgina	York Regional Forest Off Petes Lane across from house number 100	Wetlands	YOWL116668	5/1/2015	POST	MOD	64	0	NIL	No	1
Georgina	40 metres south of Petes Lane East of Godfrey Drive	Woodland Pool	YOWP116666	5/1/2015	POST	LOW	100	0	NIL	No	2
Georgina	On the north side of Station Street 30m south west of Kenneth Street In bw road and railroad tracks	Ditch	YODI116652	5/1/2015	POST	MOD	1	0	NIL	No	2
Georgina	30553 Highway 48 Green Acres Campers Group	Woodland Pool	YOWP116664	5/1/2015	POST	MOD	100	0	NIL	No	2
Georgina	28 Riverside Drive	Ditch	YODI116658	5/1/2015	POST	MOD	10	0	NIL	No	3
Georgina	200m in from Riverview on North side of Laurine Road	Ditch	YOUK116643	5/1/2015	POST	LOW	900	0	NIL	No	2
Georgina	174 Irving Drive drainage ditches along driveway and neighbouring driveway	Woodland Pool	YODI115897	5/1/2015	POST	HIGH	1	0	NIL	No	5
Georgina	20 Bolster Lane flooded woodlands	Field Pool	YOF115917	5/1/2015	POST	LOW	400	0	NIL	No	5
Georgina	174 Irving 30m south of road	Pond	YOUK116640	5/1/2015	POST	LOW	900	0	NIL	No	5
Georgina	20 metres north of railroad tracks woodlands before Bolster Lane	Woodland Pool	YOUK116641	5/1/2015	POST	Dry	Dry	0	Dry	No	4
Georgina	Opposite 151 Forestry Drive Other side of Road	Ditch	YODI115902	5/6/2015	POST	Dry	Dry	0	Dry	No	4
Georgina	Forestry Drive South of 3 Brook Crescent West South of Road	Ditch	YODI116659	5/6/2015	POST	Dry	Dry	0	Dry	No	4
Georgina	South of 3 Forestry Drive	Woodland Pool	YOWP116665	5/6/2015	POST	MOD	100	0	NIL	No	5
Georgina	28 Riverside Drive	Ditch	YODI116658	5/6/2015	POST	LOW	20	0	NIL	No	3
Georgina	Across Road from 132 Irving Drive	Ditch	YODI115895	5/6/2015	POST	MOD	150	0	NIL	No	3
Georgina	174 Irving Drive drainage ditches along driveway and neighbouring driveway	Woodland Pool	YODI115897	5/6/2015	POST	MOD	50	0	NIL	No	5
Georgina	Across from 118 Irving Drive	Ditch	YODI116661	5/6/2015	POST-PRE	MOD	60	5	LOW	Yes	2
Georgina	20 Bolster Lane flooded woodlands	Field Pool	YOF115917	5/6/2015	POST	MOD	30	0	NIL	No	5
Georgina	174 Irving 30m south of road	Pond	YOUK116640	5/6/2015	POST	MOD	150	0	NIL	No	5
Georgina	20 metres north of railroad tracks woodlands before Bolster Lane	Woodland Pool	YOUK116641	5/6/2015	POST	MOD	100	0	NIL	No	4
Georgina	Opposite 124 Irving Drive Wetlands	Woodland Pool	YOWP115898	5/6/2015	POST	MOD	500	0	NIL	No	3
Georgina	Opposite 58 Riverview Beach Road	Woodland Pool	YOWP116636	5/6/2015	POST	MOD	400	0	NIL	No	1
Georgina	South side of Highway 48 75m east of Weirs Sideroad	Wetlands	YOWL116633	5/14/2015	POST	MOD	150	0	NIL	No	1
Georgina	30553 Highway 48 Green Acres Campers Group	Woodland Pool	YOWP116664	5/14/2015	POST	MOD	200	0	NIL	No	2
Georgina	South West corner of Weirs Road and Highway 48	Wetlands	YOWL115901	5/14/2015	POST	MOD	75	0	NIL	No	1
Georgina	Highway 48 north side West of Riverview Beach Road at front of Pines Georgina Golf Course and Restaurant	Ditch	YODI115892	5/14/2015	POST	MOD	100	0	NIL	No	1
Georgina	ditch across the road from 42 Irving Drive	Ditch	YODI116660	5/14/2015	POST	MOD	45	0	NIL	No	2
Georgina	200m in from Riverview on North side of Laurine Road	Ditch	YOUK116643	5/14/2015	POST	MOD	225	0	NIL	No	2
Georgina	Laurine Road 200 from west end on north side	Wetlands	YOUK116644	5/14/2015	POST	MOD	300	0	NIL	No	1
Georgina	Across Road from 132 Irving Drive	Ditch	YODI115895	5/14/2015	POST	MOD	150	0	NIL	No	3
Georgina	174 Irving Drive drainage ditches along driveway and neighbouring driveway	Woodland Pool	YODI115897	5/14/2015	POST	MOD	20	0	NIL	No	5
Georgina	Across from 118 Irving Drive	Ditch	YODI116661	5/14/2015	POST	MOD	60	0	NIL	No	2
Georgina	27 Riverview Beach Road Name Wright	Field Pool	YOF115894	5/14/2015	POST	MOD	150	0	NIL	No	1
Georgina	20 Bolster Lane flooded woodlands	Field Pool	YOF115917	5/14/2015	POST-PRE	MOD	80	51	HIGH	Yes	5
Georgina	174 Irving 30m south of road	Pond	YOUK116640	5/14/2015	POST	MOD	90	0	NIL	No	5
Georgina	Opposite 124 Irving Drive Wetlands	Woodland Pool	YOWP115898	5/14/2015	POST	MOD	150	0	NIL	No	3

48 sites in Town of Georgina were sampled with 98 visits for the 2015 season

## **Appendix 5**

### **Map of the Adult Sweep Net Locations**





**Legend**

- Roads**
- Highway
- Arterial
- Collector
- Streams
- Waterbody
- Treatment Area
- Sweep Net Locations

**Georgina Adult Sweep Net Count Locations**



1 centimeter = 340 meters

1:34,000

