



The Best Place on Earth

MINISTRY OF ENVIRONMENT  
PESTICIDE USE PERMIT  
No. 738-0013-2010/2010

*Pursuant to Section 6 of the Integrated Pest Management Act*

British Columbia Minister of Forests  
Forest Practices Branch  
P.O. Box 9513 Stn. Prov. Govt.  
Victoria, B.C. V8W 9C2

is authorized to use pesticides subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Integrated Pest Management Act* and may result in prosecution.

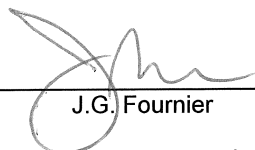
**Treatment Dates**

- A. The pesticide use described herein may be conducted on or between April 15, 2010 and June 30, 2010 when the permit expires.

**Notifications**

- B. To allow inspection by the public, the permittee shall, within 7 days of permit issuance, post a copy of the permit with relevant maps at the Ministry of Forests – Forest Practices Branch in Victoria and the City of Richmond municipal hall or alternative sites to the satisfaction of the Senior Pesticide Management Officer, Lower Mainland and Vancouver Island Region. The posted permit and maps shall remain at these locations until one week after all pesticide spray activities under the permit have ceased.
- C. Within 15 days of issuance of the permit, the permittee shall publish a notice in at least one community newspaper circulated within the treatment area. The published notice shall contain the following information:
- (a) Name, address and telephone number of the permit holder,
  - (b) Permit number,
  - (c) Purpose of pesticide use,
  - (d) Pesticide used (trade name, P.C.P. No. and active ingredient),
  - (e) Method of pesticide application,
  - (f) A map showing the location of the treatment area and primary zone of spray drift deposition,

Date Issued: FEB 17 2010

  
J.G. Fournier

On behalf of the Administrator – *Integrated Pest Management Act*

- (g) Date of project commencement and completion,
- (h) Information on where copies of the permit and map of the treatment area may be examined in detail,
- (i) Information on how and when telephone support lines can be accessed by the public to obtain spray-related information or to discuss health-related concerns associated with the pesticide use.

D. **A press release** providing details of pending local pesticide use shall be sent at least one week prior to commencement of the **first pesticide spray** to a minimum of one community newspaper circulated within the treatment area and primary zone of spray drift deposition. **The press release** shall contain at least the following, or comparable, wording:

The **first** in a series of aerial spray operations using the pesticide product Foray 48B (active ingredient Btk) to control introduced populations of the Gypsy Moth may commence as early as insert date here. A maximum of four spray applications will take place at about ten day intervals until June 30, 2010. Each application is expected to commence at sunrise and take about insert duration here minutes to complete on each of insert number of days per spray application here mornings. People who wish to minimize their exposure may remain indoors with their windows and doors closed during the spraying and for at least 30 minutes thereafter. Changes in weather conditions may cause proposed applications to be cancelled or delayed with little advance notice.

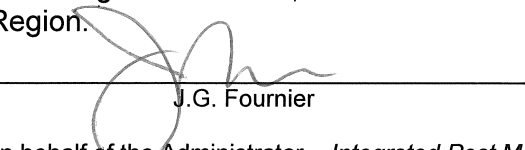
Notification (written if possible) shall be provided to the persons listed below, or their representatives, at least 24 hours before commencement of each spray application. Immediate notification will be provided to these persons when a pending spray application has been cancelled, delayed or deferred. Notification will include estimates of how long the impending spray will likely take to be completed, when a deferred application has been rescheduled or, when the next spray is likely to occur.

The following persons or their appropriate representatives are to be directly notified:

- the Medical Health Officer for the Coastal Health Authority,
- the Principals of all schools within the treatment area and primary zone of spray drift deposition,
- the owners or managers of any licensed care facilities within the authorized spray area and primary zone of spray drift deposition,
- the holders of known surface intakes for domestic and agricultural water uses, within the treatment area and primary zone of spray drift deposition,
- the Mayor of the City of Richmond, and
- the Senior Pesticide Management Officer, Lower Mainland and Vancouver Island Region.

Date Issued:

FEB 17 2010

  
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Additional notification shall be given to the news directors of at least two media stations (in each of the following categories) that have regularly scheduled news broadcasts and serve the treatment areas as well as adjacent communities:

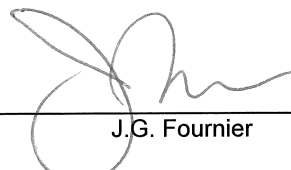
- locally broadcast AM radio station(s),
- locally broadcast FM radio station(s),
- locally broadcast TV station(s).

The notification provided to radio and TV stations identified above shall contain the following, or comparable, wording:

Recorded information on gypsy moth spray dates and times can be obtained 24 hours a day by calling insert toll-free number here. The information on planned treatments will become progressively more specific as the spray dates near. Up to date treatment information will be available immediately before, during, and until 1630 hr on each day of spray operations. Information on how concerned citizens can address their health concerns regarding spray activities can be obtained 24 hours a day by calling insert toll-free number here.

- E. All available information on public health concerns raised and addressed through the above mentioned health lines shall be recorded and reported on within 15 days of each period of pesticide use. A final report summarizing all collected information shall be submitted, to the satisfaction of the Senior Pesticide Management Officer, within 30 days of the last day of pesticide use.
- F. The permittee shall develop, maintain and implement a location-specific plan for communicating details to the public, relevant health authorities, government agencies and local government regarding the proposed and completed pesticide uses. Such information shall be readily available on an internet web site.
- G. Prior to any pesticide use, the Senior Pesticide Management Officer, Lower Mainland and Vancouver Island Region shall be given written notification of the name, licence number and valid British Columbia Pesticide Applicator Certificate numbers of any contractors applying pesticides under this permit. Any pilot that will be directly involved in aerial based pesticide applications shall possess a valid pesticide applicator certificate.
- H. All personnel involved in the project shall be notified of the terms and conditions of the permit and any permit amendments prior to pesticide use.

Date Issued: FEB 17 2010



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Permit No. 738-0013-2010/2010

## Authorized Pesticides

- I. The pesticide listed below is approved for use under the terms of this permit. Application rates indicated are maximums per application. Lower rates must be used where project objectives may still be achieved.

Trade Name	Active Ingredient (a.i.)	Product P.C.P. #	Application Rate (litres/ha per each of 4 uses)	Maximum Area of Pesticide Use per Application (ha.)	Maximum Quantity of Product to be Used per Application (litres)
Foray 48B	Bacillus thuringiensis var. kurstaki	24977	4.0 (50 BIU/ha)	776	9312

## Target Pest Species, Treatment Area and Purpose

- J. Aerial pesticide use is permitted on or over lands that are within the boundaries delineated on the map accompanying this permit where permission has been granted by the land owner, the land holder, an Order In Council or other legal instrument.
- K. Pesticide use shall be for the purpose of eradicating the introduced population of the Gypsy Moth (*Lymantria dispar*) from the location referred to in Condition H above.

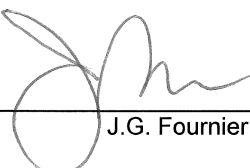
## Monitoring

- L. The permittee shall use spray monitoring devices, to determine the uniformity of coverage of the spray treatment and spray drift into the primary zone of spray drift deposition. Upon completion, the monitoring results shall be submitted to the Senior Pesticide Management Officer, Lower Mainland and Vancouver Island Region.

## Restrictions

- M. The permittee shall take steps, to the satisfaction of the administrator, to mitigate spray related impacts on any population(s) of pesticide-sensitive rare and endangered species found to exist within the treatment area and the primary zone of spray drift deposition.

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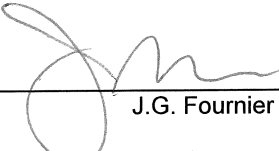
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- N. Pesticides shall not be applied in areas where wind speeds are greater than 8 km/hr. Application equipment and droplet size shall be selected to minimise drift while still achieving the primary treatment objective of Gypsy Moth eradication.
- O. Aerial applications shall be conducted in the daylight morning hours and shall be completed on or before 0730 hours.
- P. At all times during aerial operations, the pilot(s) must be in continuous radio contact with ground-based personnel that are familiar with the permit and treatment area(s).
- Q. A maximum of four aerial and/or ground-based treatments may be applied to any given area.
- R. All spray equipment shall be properly calibrated prior to use.
- S. All pesticide products and application equipment used shall be maintained in secure conditions that prevent tampering or the introduction of spray contaminants.
- T. The permit holder must comply with all applicable provisions under the *Integrated Pest Management Act*.

### Reporting

- U. Follow-up reports shall be provided to the Senior Pesticide Management Officer, Lower Mainland and Vancouver Island Region on or before December 31, 2010. The reports shall include the quantities of pesticides used, the area treated (ha), a description of the timing of treatments, treatment efficacy information based on monitoring trap catches, all pertinent maps and recommended follow-up activities for the treatment area.
- V. Pesticide spills that result in impacts not authorized by or consistent with this permit, shall be immediately reported to the Provincial Emergency Program at 1-800-663-3456. Spill affected areas shall be immediately cleaned-up and decontaminated. The Senior Pesticide Management Officer, Lower Mainland and Vancouver Island Region shall be provided with reports on the spill, clean-up activities and decontamination actions as soon as practicable.
- W. Permit non-compliance that results in impacts not consistent with the intent of this permit shall be reported to the Senior Pesticide Management Officer, Lower Mainland and Vancouver Island Regions within 48 hours of the infraction's discovery. Actions, to the satisfaction of the Senior Pesticide Management Officer, Lower Mainland and Vancouver Island Region may be required to evaluate the potential impact of the non-compliance on human health and/or the environment.

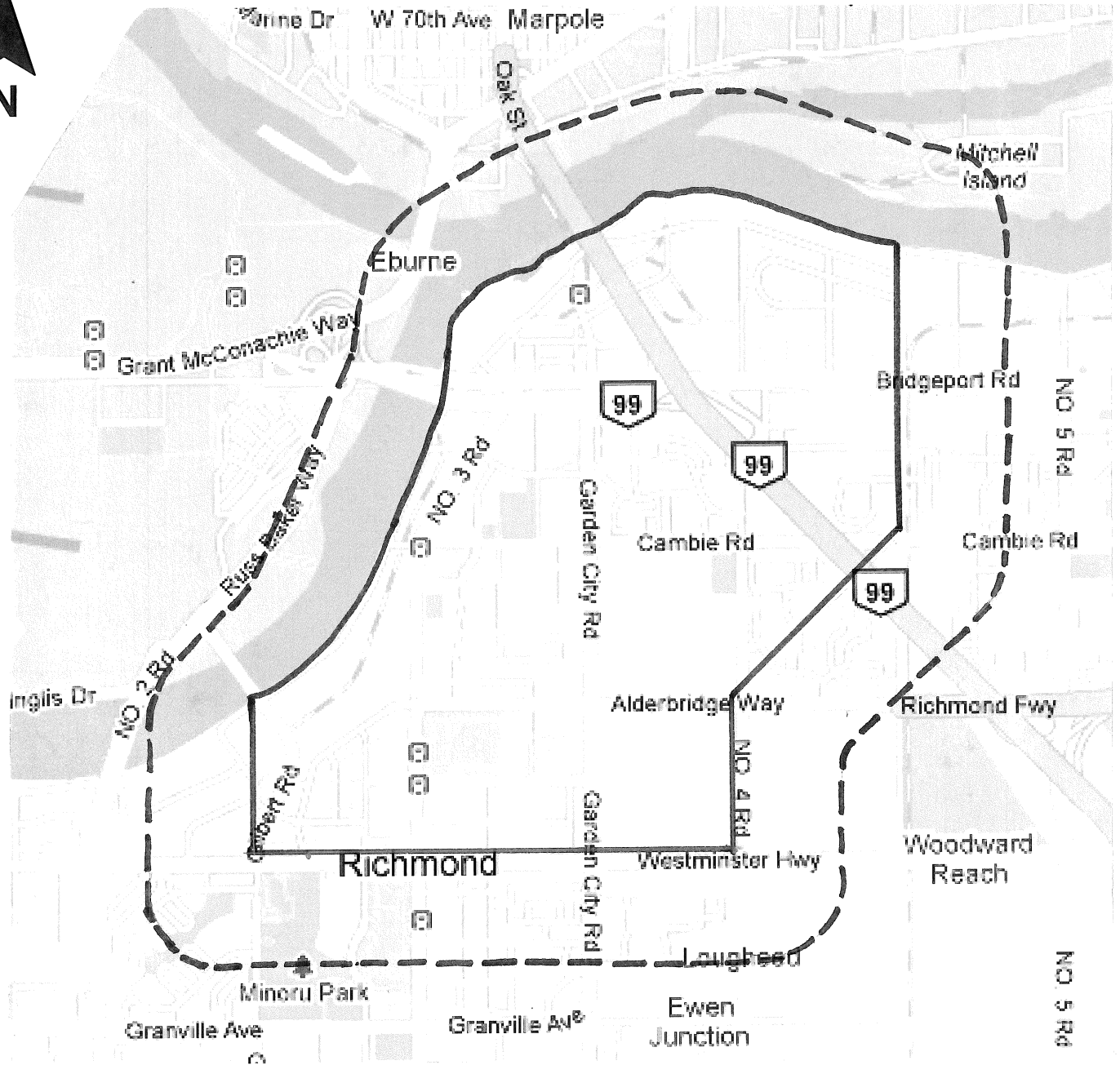
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### SITE LOCATION MAP (Detailed)



Approximate Scale: 1:33,000

PUP # 738-0013-2010/2010

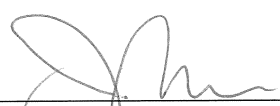
**Legend:**

Date: FEB 17 2010

Richmond Gypsy Moth Treatment Area

— Treatment Area Boundary

- - - Primary Spray Drift Deposition Boundary

  
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 Senior Pesticide Management Officer  
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