

DISTRICT OF SAANICH

PESTICIDE APPLICATION • NO FEE

Note: An application must meet one of the following requirements in order to be considered:

- a pest infestation that threatens the integrity of a sensitive ecosystem
- a pest infestation that poses a serious economic loss
- to control the spread of noxious weeds or invasive species

And all of the following:

- the use of the pesticide is permitted under the Integrated Pest Management Act
- the principles of Integrated Pest Management have been followed

Application Submission:

- Part 2 of Application Form (required) IPM Plan (required) sketch of property and relevant features (required)
- Photographs (optional) qualified professional report (if a sensitive ecosystem)

APPLICANT (Please Print)

Name	West Coast Landscaping, Jeannie Westwood				
Address	2537 Wayward Drive, Victoria BC			Postal Code	V8R 3J7
Phone	250 765-4321	Fax		E-mail	EcoLands@zmail.com

OWNER (Please Print)

Name	Mr. and Mrs. Alan Smith				
Address	192 Green Avenue, Victoria BC			Postal Code	V8A 1J1
Phone	250 123-4567	Fax		E-mail	AlanSmth@zmail.com

PROPERTY DESCRIPTION/ADDRESS

Legal Description: LOT 4 SECTION 15 LAKE LAND DISTRICT PLAN 7780
Address: 192 Green Avenue, Victoria BC

In making this application the owner agrees to permit access to the property at all reasonable times by Saanich staff, members of council or consultants authorized by Saanich, for purposes of conducting inspections of the property.

- The name, address and phone number of the applicant will be made available to the public on request.

CERTIFICATION

I hereby certify that the information is true to the best of my knowledge

X

SIGNATURE OF APPLICANT

February 31, 2011

DATE

AUTHORIZATION

Required if applicant is not the registered owner; strata titled developments require a written endorsement from strata council(s)

I hereby consent to the application herein

SIGNATURE OF OWNER

DATE

This information is collected for the administrative and/or operational functions of the District of Saanich as authorized by the Local Government Act. This information has been collected, and will be used and maintained, in accordance with the Freedom and Information Protection of Privacy Act. Should you have any questions about the above please contact Saanich's Information and Privacy Team at 250-475-1775.

STAFF USE ONLY

Project Name:

Project No:

Case No:

Details of Proposal

Area of Proposed Pesticide Application (m² or ha): total area is 30 m² (2 meters west of Tod Creek)

Name of Pest or Plant Targeted: Japanese Knotweed, *Fallopia japonica*

Name of pesticide to be used: Vantage Plus Max (glyphosate - 48% a.i.)

Name of pesticide applicator and certification number: Jeannie Westwood, Pesticide certificate # 39246

Accreditation of the pesticide applicator (if applicable): Landscape Horticulturist, B. C., Trades Certified

Briefly Describe Problem:

The highly invasive Japanese Knotweed has established itself and is spreading into the neighbor's sensitive woodland and creek. Three years of manual removal has been unsuccessful, and Saanich has required the owner to remove the knotweed under the noxious weeds bylaw #8080. Japanese knotweed is targeted under Saanich's Early Detection Rapid Response (EDRR) category of invasive species. The proposed pesticide treatment is a last resort.

Briefly Describe Proposal:

Knotweed will be treated with an herbicide using the "cut and fill" method for large stems (25% active ingredient), and a surface application (10% a.i.) will be painted on the thinner stems. Vantage Plus is the chosen pesticide, as it includes a surfactant to promote rapid uptake and prevent drift. The method has been proven 90% effective the first year (King County) and has no effect on the surrounding vegetation. It is also safe to use near water. Both methods will be monitored monthly until fall/winter dieback. Reapplication will be done during each monthly monitoring session if required. Retreatment may be required for at least two more years.

Describe how the requirements in sections 8-11 of the Pesticide Bylaw will be met:

Two 12"x17" plasticized signs will be posted in highly visible locations with the required information from the pesticide bylaw and IPM manual. They will be stapled to wooden stakes that are 3 meters from the property line at all of the major entry points to the treatment area. Signs will be posted July 25, 2011 and removed 72 hours after treatment. Neighbors will be notified in writing of the pesticide treatment (following pesticide bylaw Part 3 - Section 10) by July 24, 2011 and verbally notified on the day of treatment.

Proposed Date(s) for pesticide use:

July 27, 2011 (Alternate treatment date: August 4, 2011)

Possible Retreatment: August 27 2011, September 27 2011, October 27 2011

Information Required for Submission

It is the responsibility of the applicant to consult with staff to determine the information required for a complete application. Processing begins only when an application is certified as complete. Additional information may be requested during application review.

Information		Details
Integrated Pest Management (IPM) Plan	<input checked="" type="checkbox"/>	Author and credentials
	<input checked="" type="checkbox"/>	Description of Problem
	<input checked="" type="checkbox"/>	What other control methods have been used?
	<input checked="" type="checkbox"/>	How is the use of pesticides justified using the principles of IPM?
	<input checked="" type="checkbox"/>	Complete description of proposed solution.
Sketch Plan: metric scale only	<input checked="" type="checkbox"/>	Civic & legal address
	<input checked="" type="checkbox"/>	North arrow and scale
	<input checked="" type="checkbox"/>	Property lines, buildings, landmarks
	<input checked="" type="checkbox"/>	Area of pest problem
	<input checked="" type="checkbox"/>	Watercourses (on property or within 50m of property line)
Professional Report:		Author and credentials
		Description of problem
		Verification of a sensitive ecosystem AND/OR Impact of noxious weed or invasive species

Integrated Pest Management Plan (Example Application)

West Coast Landscaping Integrated Pest Management Plan

Client: Mr. and Mrs. Alan Smith

Location: 192 Green Avenue, Victoria BC

Site Description: 53m width x 91m length

- Tod Creek runs length of west property line, environmentally sensitive area
- Woodland next to creek, 30% of property, native trees and shrubs
- Lawn 6m x 9m, vegetable garden 9m x 9m, ornamental garden 18m x 2
- Cottage 10m x 13m, in-ground irrigation, clay-loam soil

Pest Name: *Fallopia japonica* Japanese Knotweed

Pest Category: Invasive Weed, Early Detection Rapid Response (EDRR) species in BC and Saanich.

Site of pest: 2 meters west of the creek, on southern part of the western property line; most clumps in woodland, small amount of stems in lawn

Prevention

Ensure Japanese knotweed and other invasive knotweeds are not replanted on property by educating owner. Check to make sure no irrigation is applied to knotweed site. When knotweed is removed from the area, replant with aggressive native plants as soon as possible to provide shade and root competition. Maintain vigorous woodland area.

Monitoring

May 2, 2010: 30 m² of *Fallopia japonica* has been identified on the property. Over 75% is in the woodland and less than 25% in the lawn. The edge of knotweed in the woodland is 2 meters west of the creek and along the western property line. The many clumps in the woodland are covered with knotweed remnants of mature stems up to 5 cm in diameter. Most of the growing stems from existing clumps range from .5 to 1 m tall. Many single stems dot the woodland between existing clumps and are expanding outwards, especially towards the creek. The stems in the lawn have been mowed several times already this year by the landowner. New stem tips are emerging and spreading here, too. Encourage property owner to monitor lawn for knotweed stems every two weeks after treatment until end of September then monitor monthly. We will check woodland monthly. This will require visual checking for stems up to 10 meters away from existing clumps and individual stems. For the following year, the property owner will start monitoring the first week of March and every two weeks after, notifying us when the knotweed stems start to grow.

Injury level

Zero tolerance, Early Detection Rapid Response (EDRR) species in B.C.

Action level

Start eradication program for lawn immediately. Start eradication program for woodland in late July/early August. Retreat sites every two weeks for the lawn and every month for the woodland site till dieback of knotweed stems due to cold weather.

Integrated Pest Management Plan (Example Application)

Treatments

Eradication program must span several years and consist of multiple, yearly treatments. Attempts at cutting or pulling stems to starve roots are not effective. The smallest piece of rhizome can grow a stem. Rhizomes can grow ten meters from a clump. Cutting or pulling encourages new stems to grow. Pulling and digging is only feasible for very small outbreaks. Placing a barrier to restrict root growth is not effective as roots can grow 2.5m down and 20m out. It is not feasible to use a backhoe which may break up roots and spread rhizomes further and encourage root remnants further away to grow new shoots. Heat application will kill surface vegetation but may encourage new growth from roots further away. Mulching has not been effective in the Capital Regional District (Bill Kimmerly, pers. comm.). There are no known biological controls. Herbicidal treatment is the most effective; injection, cut and fill and paint methods using glyphosate. Exempt chemicals would have little or no effect and may result in new stems quickly growing and spreading. Herbicidal treatment is best done in late August or September when the plant has expended most of its energy. Medium to large sites (>0.005ha and >10 stems per m²) must integrate herbicide use to be successful.

Lawn: Mechanical/Manual Controls

Digging/Hand-pulling: Cut off all stems with loppers, machete or brush saw as low to the ground as possible. Using a sharp mattock or shovel, dig up as much of the main root mass and lateral rhizomes as possible when soil is soft. Carefully transfer dug up root material to land fill for deep burial. Reseed with grass a.s.a.p. Every two weeks have home owner monitor and pull out all new sprouts and looking at least 10 m further for new sprouts. Repeat until knotweed stops re-sprouting.

Woodland: Chemical Controls

Chemical to be used: glyphosate, Vantage Plus Max

Tool: JK Injection System

Method: Cut and fill and paint

Cut and fill: For stem diameters > 0.75 cm

In late August to early September, set up one or more teams of three (3) people - one person cutting, one person applying herbicide within 30 minutes of cutting, and one person hauling all cut material to a disposal location.

Use sharp loppers with curved blade & anvil and cut just below the 3rd inter-node. Herbicide must be applied within 20 minutes of cutting or plant will “seal itself” preventing the translocation of the herbicide. Vertically insert cavity needle into the hollow of the cut stem, slowly and carefully squeezing the trigger to deposit 5 ml of an herbicide/water/blue dye mixture containing at least 240 g/L (24%) of active ingredient glyphosate (Vantage Plus Max). This is full strength 48% a.i. mixed with 50% water and blue dye; smaller stems may not accept the full amount.

Paint: For stem diameters < or 0.75 cm

All the thinner stems will be treated with the paint method to prevent any possible chemical drift. Use a mixture of 100 g/L (or 10%) of the active ingredient glyphosate (Vantage Plus Max), 1% surfactant (LI700) and blue dye. Wet paintbrush (do not let drip) and paint all areas of upper and lower surfaces of leaves and stems. Make sure the entire plant is painted.

Evaluation

At natural dieback during late fall or winter, evaluate the year's results and plan improvements for next year. At the beginning of the following year after first monitoring, change IPM plans if required.

Integrated Pest Management Plan (Example Application)

Sketch Plan:

192 Green Avenue, Victoria BC
LOT 4 SECTION 15 LAKE LAND DISTRICT PLAN 7780

