Public Works & Transportation Committee

Date:

Wednesday, May 19, 2010

Place:

Anderson Room

Richmond City Hall

Present:

Councillor Linda Barnes, Chair

Councillor Sue Halsey-Brandt, Vice-Chair

Councillor Derek Dang Councillor Ken Johnston Councillor Harold Steves Mayor Malcolm Brodie

Call to Order:

The Chair called the meeting to order at 4:30 p.m.

MINUTES

It was moved and seconded

That the minutes of the meeting of the Public Works & Transportation Committee held on Wednesday, April 21, 2010, be adopted as circulated.

CARRIED

NEXT COMMITTEE MEETING DATE

Wednesday, June 23, 2010 (tentative date) at 4:30 p.m. in the Anderson Room

DELEGATIONS

1. (a) Archie MacLellan, 5471 Arcadia Road, provided background information and noted in an effort to comply with City bylaws, he had his building's strata bylaws amended to allow for commercial vehicle parking on their private parking lot.

Mr. MacLellan indicated he even had the support of the residents whose units face the parking. However, he learned that the bylaw restricts commercial vehicle parking in residential areas regardless of if it's on City or private property. Mr. MacLellan advised that he has attempted to get alternative parking for his vehicles but it has been very difficult. He requested that should a permanent solution not be reached, that he be extended 90 days to find alternate parking.

In response to a query from Committee, Mr. MacLellan noted that he has a cube van and a work trailer.

Wayne G. Mercer, Manager, Community Bylaws, advised that the restriction is part of the zoning bylaw and has nothing to do with visibility of a commercial vehicle. In reply to a query, Mr. Mercer noted that his division was first made aware of Mr. MacLellan's situation in March 2010 and Mr. MacLellan has since received a number of extensions from the Bylaws division. Also, he noted that as per the City's traffic bylaw, commercial vehicles are defined by their Gross Vehicle Weight and height.

Discussion ensued and Committee sympathized with Mr. MacLellan's situation but noted that Council cannot provide bylaw exemptions.

Committee directed staff to provide Mr. MacLellan with a 60-day grace period beginning at the end of May 2010.

- (b) Steve Aujla, Executive Vice President, Business Development, Fraser Richmond Soil & Fibre Ltd. (FRSF), provided background information on FRSF and noted the following:
 - FRSF will build a High Solids Anaerobic Digester (HSAD) the first of its kind in North America to implement biogas energy production;
 - the HSAD breaks down waste through naturally occurring micro organisms and into methane and carbon dioxide – also known as biogas; and
 - this biogas is captured in gas-tight enclosures and can be used as fuel to produce renewable electricity and cleaned biomethane.

Mr. Aujla provided statistical information regarding his company's efforts. He noted that the City of Richmond has been a leader in recycling food waste organics for single-family residences and his company hopes to work with the City to expand this program to multifamily residents. Also, he commented on the City's Ditch Cleaning Program and indicated that he would be interested in discussing this matter with staff.

Mr. Aujla thanked the City for being proactive and invited City Council and staff to tour his company's facility.

ENGINEERING AND PUBLIC WORKS DEPARTMENT

2. DRAFT INTEGRATED SOLID WASTE AND RESOURCE MANAGEMENT PLAN - GREATER VANCOUVER REGIONAL DISTRICT

(File Ref. No.: 10-6405-04-02) (REDMS No. 2884526)

Suzanne Bycraft, Manager, Fleet & Environmental Programs, accompanied by Dennis Ranahan, Senior Engineer, Metro Vancouver, provided background information. Ms. Bycraft noted that it is anticipated that the draft Integrated Solid Waste and Resource Management Plan be brought before the GVRD Board in July 2010.

Discussion ensued regarding the draft Plan's principle strategies and in response to queries from Committee, Mr. Ranahan advised that the draft Plan's primary goal is to reduce waste and its 70% b 2015 target is aggressive but it is the minimum. He also commented that the draft Plan aims to manage waste within the region.

In reply to queries from Committee, Ms. Bycraft and Mr. Ranahan advised that (i) staff would explore opportunities with Metro Vancouver regarding establishing an Eco-Centre in Richmond and the amendments proposed by the City of Vancouver would be returning to the GVRD Board for consideration.

Discussion ensued regarding the City of Los Angeles' Solid Waste and Resource Management Plan and Robert Gonzalez, General Manager, Engineering and Public Works, advised that LA's plan does not exclude incineration in its entirety.

It was moved and seconded

- (1) That the Metro Vancouver Board be advised of the City of Richmond's comments relative to the Draft Integrated Solid Waste and Resource Management Plan as contained in their April 22, 2010 letter as follows:
 - (a) The City of Richmond supports the Draft Solid Waste Management Plan, dated April 22, 2010; and
 - (b) The City of Richmond wishes to explore the concept of establishing an Eco-Centre in Richmond in cooperation with the Greater Vancouver Regional District.
- (2) That staff investigate waste reduction and recycling strategies for multi-family complexes in Richmond and report back.

The question on the motion was not called as staff was directed to provide more detailed information on the City of Los Angeles' Solid Waste and Resource Management proposal.

Discussion ensued regarding incineration and the limitations on other solutions.

The question on the motion was then called and it was **CARRIED** with Cllrs. Barnes and Steves opposed.

It was moved and seconded

That the City indicate to Metro Vancouver that particular emphasis be given to advancing strategies for the recycling of plastic materials.

CARRIED

COMMUNITY SERVICES DEPARTMENT

3. PESTICIDE USE CONTROL AMENDMENT BYLAW

(File Ref. No.: 10-6125-04-01) (REDMS No. 2770733)

Lesley Douglas, Manager, Environmental Sustainability, provided background information and commented on other lower mainland municipalities' pesticide bylaws.

In reply to queries from Committee Ms. Douglas advised that:

- blackberry bushes and nap weed are examples of alien invasive species;
- there are 31 municipal pesticide bylaws throughout the Province, six have exemptions for alien invasive species, thirteen have exemptions for infestations, six have exemptions for sensitive ecosystems, and sixteen include a permit process; and
- staff did not recommend adding a new exclusion for infestation control under a permit process as outlined in the staff report dated May 13, 2010 due to cost implications.

Michele Li, Chairperson of the Richmond Pesticide Awareness Coalition, was opposed to the proposed bylaw amendment. Ms. Li read from her submission, attached to and forming part of these Minutes as Schedule 1.

In reply to queries from Committee, Ms. Li advised that anyone is permitted to use pesticides inside their home and was of the opinion that the proposed bylaw amendment was unnecessary as there currently isn't an infestation in Richmond.

Ms. Douglas stated that there currently aren't any known significant threats, however the proposed bylaw would act as a precautionary tool.

Public Works & Transportation Committee

Wednesday, May 19, 2010

Discussion ensued regarding amending the Pesticide Use Control Bylaw No. 8514 to exclude the use for infestation control under a permit process as outlined in Option 2 of the staff report dated May 13, 2010. As a result of the discussion the following **motion** was introduced:

It was moved and seconded

- (1) That a bylaw amendment to exclude infestation control under a permit process be endorsed as outlined in the staff report dated May 13, 2010 from the General Manager, Community Services;
- (2) That staff draft a bylaw amendment accordingly; and
- (3) That a letter from the Mayor and Council be sent to the Province and local Members of the Legislative Assembly that reaffirms the City's position to urge the introduction of Provincial legislation to prohibit the use and sale of pesticides for cosmetic use.

The question on the motion was not called as discussion ensued regarding Option 2 as outlined in the staff report dated May 13, 2010 and it was mentioned that the abovementioned bylaw amendment be reviewed after a year.

The question on the motion was then called and it was **DEFEATED** with Cllrs. Barnes, Dang, S. Halsey-Brandt, and Steves opposed.

PLANNING AND DEVELOPMENT DEPARTMENT

4. POTENTIAL FOR PUBLIC BICYCLE SYSTEM IN GREATER VANCOUVER

(File Ref. No.: 10-6360-16-01/2010-Vol 01) (REDMS No. 2876399)

In response to queries from Committee, Victor Wei, Director, Transportation and advised that a meaningful Public Bike System (PBS) in Greater Vancouver is challenging due to the existing provincial legislation that requires all cyclist in BC to wear a helmet. He commented that staff will monitor the City of Montreal's PBS and carefully examine their accident statistics. Also Mr. Wei commented on various options for a Great Vancouver PBS such as separated lane ways for bikes.

It was moved and seconded *That:*

(1) staff continue to work with TransLink and other interested municipalities on the future development and implementation of an integrated public bicycle system in Greater Vancouver; and

Public Works & Transportation Committee

Wednesday, May 19, 2010

(2) the City send a letter to TransLink and the City of Vancouver requesting that any implementation of a public bicycle system within its jurisdiction be expandable to other municipalities in the Greater Vancouver area in the future to ensure a compatible and seamless regional system for users,

CARRIED

PROJECT DEVELOPMENT AND FACILITY MANAGEMENT DEPARMENT

5. 23031 WESTMINSTER HIGHWAY – FORMER HAMILTON FIRE HALL SITE

(File Ref. No.:) (REDMS No. 2886306)

It was moved and seconded

That:

- (1) staff remove the concrete foundation, asphalt entrance and parking lot from the former Hamilton Fire Hall site (23031 Westminster Highway); and
- (2) funding for the demolition and removal of materials come from the Property Costs Provision Account.

CARRIED

6. DITCH CLEANING PROGRAM

(File Ref. No.: 10-6000-01) (REDMS No. 2891482)

It was moved and seconded

That:

- (1) the Sidaway Works Yard soil recycling project, in the amount of \$150,000 be approved; and
- (2) the funding of \$150,000 come from the Drainage Utility Reserve.

The question on the motion was not called and staff were directed to speak with Mr. Steve Aujla of Fraser Richmond Soil & Fibre Ltd. regarding the removal of organic material from ditches. The question on the motion was then called and it was **CARRIED**.

7. MANAGER'S REPORT

Tom Stewart, Director, Public Works Operations, highlighted that the 2010 Engineering and Public Works Open House was a big successful.

ADJOURNMENT

It was moved and seconded That the meeting adjourn (6:25 p.m.).

CARRIED

Certified a true and correct copy of the Minutes of the meeting of the Public Works & Transportation Committee of the Council of the City of Richmond held on Wednesday, May 19, 2010.

Councillor Linda Barnes Chair Hanieh Floujeh Acting Executive Assistant City Clerk's Office Schedule 1 to the Minutes of the Public Works and Transportation Committee meeting held on Wednesday, May 19, 2010.

The Richmond Pesticide Awareness Coalition (RPAC) recommends that the Amendment to the Pesticide Use Control Bylaw is not accepted for the following reasons:

It asks for an exclusion for a person to use a pesticide to control or eradicate an infestation with the provision for pests which threaten a sensitive ecosystem.

We often do not know what the results will be when pesticides or insecticides are introduced into an ecosystem. Two recent studies that I just found show that pesticides (notably Round Up) used in sensitive ecosystems can cause much more harm than good.

-One study found that Round Up was highly lethal to amphibians. In addition, the study's author noted a pond's entire community of 25 species responded to the addition of herbicides and insecticides. He thought that Round Up would kill the algae that feeds the frogs but, ironically, he found out that Round Up instead killed the frogs which led to the proliferation of algae, which would effect even more organisms.

-Another recent study found that glyphosate (an ingredient in Round Up) had a synergistic effect with a parasite that caused it to wreck more havoc on the fish than it would have on its own, "greatly reducing" fish survival. (see attached)

For an example of this, I was recently told by someone that they had asked city workers a few years ago what they were using to control Purple Loosestrife near or in the water and they said at the time that they were using Round Up.

-Loosestrife is an alien invasive that is easily controlled biologically with a type of beetle that only eats purple loosestrife and not any other plant or animal or cause any other damage to the natural environment. Even Ducks Unlimited states that they do not approve any herbicides to control purple loosestrife and they also recommend this biological control of beetles. (see attached)

<u>Pesticides effect biodiversity by causing detriment to non-target organisms. There are biological controls that can assist us without damaging our natural environment.</u>

- We, along with the Canadian Cancer Society have made it clear that
 <u>pesticide exposure has inherent risks</u>. These risks are greatest for those applying
 pesticides and their families that they carry residues home to. It puts them at greater
 risk for various cancers and lung diseases.
 - There is also a risk to our community as <u>pesticides can enter our water supply</u> and can even effect the salmon we eat.
- There are many other municipalities that <u>do not allow the exemptions</u> that are being presented in this amendment. As city staff have stated, <u>only 6 bylaws out of 31</u> have exemptions for alien invasives and sensitive ecosystems. Whistler and Burnaby are local examples, which present simple and effective bylaws, without exemptions of this kind. Burnaby does note an exemption for infestations related to structural damage, which is already written into the Community Charter, so is allowed for all municipalities and does not require an additional exemption.
- PESTICIDE exposure causes undue risks to our environment and health.
 Please do not support any amendment to this bylaw.



Roundup(reg) highly lethal to amphibians, finds University of Pittsburgh researcher

03 Apr 2005 Click to Print

The herbicide Roundup(reg) is widely used to eradicate weeds. But a study published today by a University of Pittsburgh researcher finds that the chemical may be eradicating much more than that.

Pitt assistant professor of biology Rick Relyea found that Roundup(reg), the second most commonly applied herbicide in the United States, is "extremely lethal" to amphibians. This field experiment is one of the most extensive studies on the effects of pesticides on nontarget organisms in a natural setting, and the results may provide a key link to global amphibian declines.

In a paper titled "The Impact of Insecticides and Herbicides on the Biodiversity and Productivity of Aquatic Communities," published in the journal Ecological Applications, Relyea examined how a pond's entire community--25 species, including crustaceans, insects, snails, and tadpoles--responded to the addition of the manufacturers' recommended doses of two insecticides--Sevin(reg) (carbaryl) and malathion--and two herbicides--Roundup(reg) (glyphosate) and 2,4-D.

Relyea found that Roundup(reg) caused a 70 percent decline in amphibian biodiversity and an 86 percent decline in the total mass of tadpoles. Leopard frog tadpoles and gray tree frog tadpoles were completely eliminated and wood frog tadpoles and toad tadpoles were nearly eliminated. One species of frog, spring peepers, was unaffected.

"The most shocking insight coming out of this was that Roundup(reg), something designed to kill plants, was extremely lethal to amphibians," said Relyea, who conducted the research at Pitt's Pymatuning Laboratory of Ecology. "We added Roundup(reg), and the next day we looked in the tanks and there were dead tadpoles all over the bottom."

Relyea initially conducted the experiment to see whether the Roundup(reg) would have an indirect effect on the frogs by killing their food source, the algae. However, he found that Roundup(reg), although an herbicide, actually increased the amount of algae in the pond because it killed most of the frogs.

"It's like killing all the cows in a field and seeing that the field has more grass in it--not because you made the grass grow better, but because you killed everything that eats grass," he said.

Previous research had found that the lethal ingredient in Roundup(reg) was not the herbicide itself, glyphosate, but rather the surfactant, or detergent, that allows the herbicide to penetrate the waxy surfaces of plants. In Roundup(reg), that surfactant is a chemical called polyethoxylated tallowamine. Other herbicides have less dangerous surfactants: For example, Relyea's study found that 2,4-D had no effect on tadpoles.

"We've repeated the experiment, so we're confident that this is, in fact, a repeatable result that we see," said Relyea. "It's fair to say that nobody would have guessed Roundup(reg) was going to be so lethal to amphibians."

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Article URL: http://www.medicalnewstoday.com/articles/22159.php

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Synergistic effects of glyphosate formulation and parasite infection on fish malformations and survival

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KEYWORDS

disease • fish populations • glyphosate • malformation • multiple stressors • parasite • Roundup • toxicity tests

ABSTRACT

- 1. Anthropogenic pollution and disease can cause both lethal and sub-lethal effects in aquatic species but our understanding of how these stressors interact is often not known. Contaminants can reduce host resistance to disease, but whether hosts are impacted at environmentally relevant concentrations is poorly understood.
- 2. We investigated the independent and combined effects of exposure to the common herbicide glyphosate and the trematode parasite *Telogaster opisthorchis* on survival and the development of spinal malformations in juvenile *Galaxias anomalus*, a New Zealand freshwater fish. We then investigated how exposure to a glyphosate concentration gradient (0·36, 3·6, 36 mg active ingredient (a.i.) L⁻¹) affected the production and release of the infective cercarial stage of the parasite by its snail intermediate host *Potamopyrgus antipoderum*.
- 3. Survival of juvenile fish was unaffected by exposure to glyphosate alone (at an environmentally relevant concentration; 0.36 mg a.i. L⁻¹) or by *T. opisthorchis* infection alone. However, simultaneous exposure to infection and glyphosate significantly reduced fish survival.
- 4. Juvenile fish developed spinal malformations when exposed either to infections alone or to infections and glyphosate, with a trend towards greater severity of spinal malformation after exposure to both stressors.

- **5.** All snails exposed to the highest glyphosate concentration (36 mg a.i. L^{-1}) died within 24 h. Snails exposed to a moderate concentration (3·6 mg a.i. L^{-1}) produced significantly more *T. opisthorchis* cercariae than snalls in the control group or the low concentration group (0·36 mg a.i. L^{-1}); the same concentration as in the fish experiment).
- 6. Synthesis and applications. This is the first study to show that parasites and glyphosate can act synergistically on aquatic vertebrates at environmentally relevant concentrations, and that glyphosate might increase the risk of disease in fish. Our results have important implications when identifying risks to aquatic communities and suggest that threshold levels of glyphosate currently set by regulatory authorities do not adequately protect freshwater systems.

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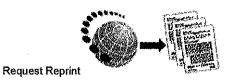
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Home » DUC In Your Province » Nova Scotia » How We Conserve » On the Ground » Invasive Species Control

Invasive Species Control—Purple Loosestrife *

The majority of Ducks Unlimited Canada's (DUC) efforts regarding invasive species control are directed towards the biological control of purple loosestrife. DUC has been involved with a purple loosestrife control program in the Maritimes since 1996.

Purple loosestrife originated in Europe and was accidentally introduced into North America in the early 1800s as a contaminant in ship ballast and as a medical herb. It has taken many years for this weed to impact our area, but it is now present in many regions. Also known as the beautiful killer, marsh monster and exotic invader, purple loosestrife establishes itself in a variety of urban and rural wetland habitats.

Purple Loosestrife greatly reduces biodiversity in the wetland, dominate and eliminate many valuable plant species. The displacement of native vegetation by purple loosestrife reduces the value of wetlands and has far reaching ecological implications, many of which are still unknown.

With no enemies in Canada it has been difficult to control the spread of purple loosestrife here. No herbicides are approved for use to control purple loosestrife growing in or around waterways. Hand digging is an option for small outbreaks, but this method is too time consuming and costly for larger outbreaks and is not viable as a long term solution since only a small piece of root is needed for the plant to regenerate.

The only approach that has demonstrated real success is the use of insects to control the spread of purple loosestrife. These insects are also non-native to Canada, but have been approved for release to combat purple loosestrife. The insects that DUC uses in the Maritimes are two leaf eating beetles called Galerucella calmariensis and Galerucella pusilla. These specialized plant eating insects do not eat any other plant or harm our natural environment.

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RESORT MUNICIPALITY OF WHISTLER

BYLAW NO 1822, 2007

A BYLAW TO REGULATE THE NONESSENTIAL AND COSMETIC USE OF PESTICIDES WITHIN THE RESORT MUNICIPALITY OF WHISTLER

WHEREAS The Council of the Resort Municipality of Whistler has the authority pursuant to Section 8(3) of the *Community Charter* to enact bylaws which provide for the protection of the "health, safety and well-being" of residents;

AND WHEREAS Council desires to respond to the concerns expressed by residents about the risks to ecological integrity and biodiversity associated with the use of pesticides;

AND WHERAS the application of pesticides contributes to the cumulative chemical load absorbed by the natural environment, and avoiding unnecessary exposure to pesticides conforms to the precautionary principle;

AND WHEREAS regulating the non-essential and cosmetic use of pesticides will help to promote and protect the public health of Municipal residents and visitors.

NOW THEREFORE the Council of the Resort Municipality of Whistler, in open meeting assembled, ENACTS AS FOLLOWS

1. TITLE

1.1. This bylaw may be cited for all purposes as "Pesticide Use Regulation Bylaw No.1822, 2007".

2. **DEFINITIONS**

2.1. In this bylaw:

biological control means the use of natural agents such as insects, nematodes, fungi, viruses, fish or animals to control pests;

cosmetic purposes means for the purpose of maintaining outdoor trees, shrubs, flowers, ornamental plants, or turf;

Integrated Pest Management means an ecologically based pest-control strategy that relies on natural mortality factors, such as natural enemies, weather, cultural control methods, and carefully applied doses of pesticides with an emphasis on methods that are least injurious to the environment and human health and most specific to the particular pest;

permitted pesticide means a pesticide listed in Schedule 2 of the Integrated Pest Management Regulation, included for reference as Schedule A of this Bylaw;

pest means an injurious, noxious or troublesome living organism, but does not include a virus, bacteria, fungus, or internal parasite that exists on or in humans or animals;

pesticide – means a micro-organism, or material that is represented, sold, used or intended to be used to prevent, destroy, repel, or mitigate a pest and includes but is not limited to:

- a. a plant growth regulator, plant defoliator or plant desiccant, and
- b. a control product as defined in the Pest Control Products Act (Canada),
- c. a substance that is classified as a pesticide by the *Integrated Pest Management Act (British Columbia)*;

private land means a parcel of land that is used partially or entirely for residential purposes and includes any parcel where a residential use is permitted pursuant to the Parking and Zoning Bylaw or a Land Use Contract, and for greater clarity includes all common property in a strata development with a residential component;

public land means all property held entirely or in part by the Resort Municipality of Whistler;

3. PROHIBITION

3.1. Unless permitted or exempted in accordance with this bylaw, no person shall apply or cause or permit the application or use of a pesticide on *private lands* or *public lands* for *cosmetic purposes* within the boundaries of the Resort Municipality of Whistler.

4. <u>EXCEPTIONS</u> - No additional exemptions

- 4.1. Notwithstanding section 3, it is permitted to apply or use a *pesticide* in the following cases:
 - 4.1.1. The use or application of *permitted pesticides*;
 - 4.1.2. In a public or private swimming pool;
 - 4.1.3. To purify water for human or animal use;
 - 4.1.4. To buildings or the inside of buildings;
 - 4.1.5. To control, destroy, reduce or repel, directly or indirectly, an animal, plant or other organism which is harmful to human health;
 - 4.1.6. Where permitted pursuant to s. 2(2) of BC Regulation 144/2004; and

4.1.7. To golf courses, only where the principals of *Integrated Pest Management* have been applied by a certified *Integrated Pest Management* practitioner with a valid pesticide applicators certificate, and the pesticide application is a last resort to avoid the loss of use of the facility.

5. ENFORCEMENT

- 5.1. This bylaw is designated under the provisions of Section 264 of the *Community Charter* as a bylaw that may be enforced by means of a ticket in the form prescribed, and in accordance with this bylaw.
- 5.2. Bylaw Enforcement Officers are designated to enforce this bylaw pursuant to Section 264(1)(b) of the *Community Charter*.

6. OFFENCE AND PENALTY

- 6.1. Any person who contravenes this bylaw is guilty of an offence and, upon conviction, is liable to a minimum penalty of \$250 and a maximum fine of \$5,000.
- 6.2. Each day a person applies or causes or permits the application of a *pesticide* within the boundaries of the Resort Municipality of Whistler that is not otherwise exempted shall constitute a separate offence.
- 6.3. Offences for which tickets can be issued and fines imposed are prescribed in the Ticket Information Utilization Bylaw No. 822, 1990.

7. **EFFECTIVE DATE**

- 7.1. This bylaw comes into force and effect:
 - 7.1.1. on public lands as of the date of adoption; and
 - 7.1.2. on private lands as of December 31st, 2008

8. <u>SEVERANCE</u>

8.1. If any section or other part of this bylaw is held invalid by a court, the invalid portion shall be severed.

READ A FIRST TIME this th day of, 2008.

READ A SECOND TIME this th day of, 2008.

READ A THIRD TIME this th day of, 2008.

Schedule A

Permitted Pesticides as of November, 2007

As per Schedule 2 of British Columbia's Integrated Pest Management Regulation, the following substances are permitted pesticides and shall be excluded from the provisions of this Bylaw:

1	acetic acid (DOMESTIC)	23	laundry additives (DOMESTIC and
2	animal repellents (DOMESTIC and		COMMERCIAL)
_	COMMERICAL) except thiram	24	material preservatives (DOMESTIC and
3	anti-fouling paints (DOMESTIC and		COMMERCIAL)
	COMMERCIAL)	25	methoprene (DOMESTIC)
4	antisapstain wood preservatives used on	26	mineral oils for insect and mite control
	private, industrial land owned by the company		(DOMESTIC)
	or person responsible for the application	27	n-octyl bicycloheptene dicarboximide
	(COMMERCIAL)		(DOMESTIC)
5	asphalt solids (pruning paints) (DOMESTIC	28	naphthalene for fabric protection
	and COMMERCIAL)		(DOMESTIC)
6	bacillus thuringiensis kurstaki (Btk)	29	paradichlorobenzene for fabric protection
	(DOMESTIC)		(DOMESTIC)
7	bactericides used in petroleum products	30	pesticides in aerosol containers (DOMESTIC
	(DOMESTIC and COMMERCIAL)	31	pesticides registered under the federal Act for
8	boron compounds (DOMESTIC)		application to pets (DOMESTIC and
9	boron compounds with up to 5% copper for		COMMERICIAL)
	insect control and wood preservation	32	piperonyl butoxide (DOMESTIC)
	(COMMERCIAL)	33	plant growth regulators (DOMESTIC)
10	capsaicin (DOMESTIC, COMMERICAL and	34	polybutene bird repellents (DOMESTIC and
	RESTRICTED)		COMMERCIAL)
11	cleansers (DOMESTIC and COMMERCIAL)	35	pyrethrins (DOMESTIC)
12	corn gluten meal (DOMESTIC and	36	resmethrin (DOMESTIC)
	COMMERICAL)	37	rotenone (DOMESTIC)
13	d-phenothryn (DOMESTIC)	38	silica aerogel, also referred to as silica gel,
14	d-trans-allethrin, also referred to as d-cis, trans		amorphous silica and amorphous silica gel
	allethrin (DOMESTIC)		(DOMESTIC and COMMERCIAL)
15	deodorizers (DOMESTIC and	39	silicon dioxide, also referred to as
	COMMERCIAL)		"diatomaceous earth" (DOMESTIC and
16	fatty acids (DOMESTIC)		COMMERCIAL)
17	ferric phosphate (DOMESTIC and	40	slimicides (COMMERCIAL)
	COMMERCIAL)	41	soaps (DOMESTIC and COMMERCIAL)
18	ferrous sulphate (DOMESTIC and	42	sulphur, including lime sulphur, sulphide
	COMMERCIAL)		sulphur and calcium polysulphide
19	hard surface disinfectants (DOMESTIC and		(DOMESTIC)
	COMMERCIAL)	43	surfactants (DOMESTIC and
20	insect bait stations (DOMESTIC)		COMMERCIAL)
21	insect pheromones (DOMESTIC and	44	swimming pool algicides and bactericides
	COMMERCIAL)		(DOMESTIC and COMMERCIAL)
22	insect repellents (DOMESTIC)	45	tetramethrin (DOMESTIC)
	·	46	wood preservatives (DOMESTIC)
			* * * * * * * * * * * * * * * * * * * *

CITY OF BURNABY

BYLAW NO. 12465

A Bylaw to regulate the use of pesticides for cosmetic purposes

The Council of the City of Burnaby ENACTS as follows:

- 1. This Bylaw may be cited as BURNABY PESTICIDE USE CONTROL BYLAW, 2008.
- 2. In this Bylaw:

"biological control" means the use of natural agents such as insects, nematodes, fungi, viruses or fish to control pests;

"hard landscape" means any constructed surface typically used for landscaping such as asphalt, concrete, rocks, gravel, treated wood or brick pavers;



"infestation" means the presence of pests in numbers or under conditions that involves an immediate risk of structural damage to property or significant financial loss in respect of the use of property; an allowed in the community charter of B.C. for all municipalities

"permitted pesticide" means a pesticide listed in Schedule "A";

"pest" means an animal, a plant or other organism that is injurious, noxious or troublesome, whether directly or indirectly, and an injurious, noxious or troublesome condition or organic function of an animal, a plant or other organism;

"pesticide" means a microorganism or material that is represented, sold, used or intended to be used to prevent, destroy, repel or mitigate a pest, and includes but is not limited to:

(a) a plant growth regulator, plant defoliator or plant desiccant;

- (b) a control product as defined in the Pest Control Products Act (Canada); and
- (c) a substance that is classified as a pesticide by the *Integrated Pest Management Act* (British Columbia);

"private lands" means a parcel or part of a parcel if the parcel or part is used for residential purposes;

"public lands" means lands owned by the City.

- 3. Except as otherwise permitted under this Bylaw, no person shall apply or cause or permit to be applied a pesticide on private lands or public lands within the City of Burnaby.
- 4. This Bylaw shall not apply in respect of:
 - (a) the use or application of a permitted pesticide;
 - (b) the use of a pesticide in response to a danger to human or animal health;
 - (c) the use of a pesticide to disinfect a swimming pool, wading pool, whirlpool or ornamental water fountain;
 - (d) the use of a pesticide to purify water intended for human or animal consumption;
 - (e) the use of a biological control to destroy noxious pests, including rats and mice;
 - (f) the use of a pesticide to control an infestation; defined above
 - (g) the use or application of a pesticide inside of a building;
 - (h) the use of a pesticide to control or destroy plants which constitute a danger for human beings who are allergic thereto; and