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Marine Drive, Valley and Canal Community Council

TO: Chair and Members of Marine Drive, Valley and Canal Community Council

SUBMITTED BY: Kwista Williams
Ms. Ellinor Williams, Chair, Halifax Watershed Advisory Board

DATE: September 30, 2011

SUBJECT: Case 17055: An application by Searle Environment Services Ltd., for the lands of Carol Bentley, to enter into a development agreement to permit a dog kennel at 164 Cross Road, Ostrea Lake

ORIGIN

Halifax Watershed Advisory Board September 21, 2011 meeting.

RECOMMENDATION

The Halifax Watershed Advisory Board recommend to Marine Drive, Valley and Canal Community Council that with respect to Case 17055:

1. The well be tested, prior to construction, for water capacity and quality, to establish a benchmark.
2. The septic tank be pumped out every three years
3. The composter be covered in winter
4. Compost not be distributed anywhere within the watercourse buffer area.
5. A reporting requirement, based on the form on the back of the USDA Natural Resource Conservation Service pamphlet, "Composting Dog Waste", (Attachment A of the Staff Memorandum dated September 12, 2011) be included in the Development Agreement.

BACKGROUND

The Halifax Watershed Advisory Board discussed this matter during its September 21, 2011 meeting.

Further information can be reviewed within the staff memorandum dated September 12, 2011.

DISCUSSION

The Board discussed the following points during its September 21st meeting:

- the septic tank is for the residence only
- there are no streams on the property
- the compost will remain on-site, to be used in landscaping
- the development agreement will limit the number of dogs
- sufficient well capacity will be examined
- Williams Lake is not used for drinking water
- record-keeping

It was noted that the reporting requirement for the composting system reflects the Board's interest in an innovative technology which could have other applications in future.

BUDGET IMPLICATIONS

There are no budget implications associated with this report. The Developer will be responsible for all costs, expenses, liabilities, and obligations imposed under or incurred in order to satisfy the terms of this Agreement. The administration of this Agreement can be carried out within the approved budget with existing resources.

FINANCIAL MANAGEMENT POLICIES/BUSINESS PLAN

This report complies with the Municipality's Multi-Year Financial Strategy, the approved Operating, Project and Reserve budgets, policies and procedures regarding withdrawals from the utilization of Project and Operating reserves, as well as any relevant legislation.

COMMUNITY ENGAGEMENT

The Halifax Watershed Advisory Board is an Advisory Committee to Community Council and Regional Council, and is comprised of eight volunteer citizens and two Councillors.

ALTERNATIVES

None.

Community Council Report

ATTACHMENTS

Staff Memorandum dated September 12, 2011

A copy of this report can be obtained online at <http://www.halifax.ca/council/agendasc/cagenda.html> then choose the appropriate meeting date, or by contacting the Office of the Municipal Clerk at 490-4210, or Fax 490-4208.

Report Prepared by: Krista Vining, Legislative Assistant, Municipal Clerks Office, 490-6519



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M E M O R A N D U M

TO: Chair and Members of Halifax Watershed Advisory Board

FROM: Jacqueline Bélisle, Planner, Community Development

DATE: September 12, 2011

SUBJECT: Case # 17055: An application by Searle Environmental Services Ltd., for the lands of Carol Bentley, to enter into a development agreement to permit a dog kennel at 164 Cross Road, Ostrea Lake.

An application has been received by Searle Environmental Services Ltd. for the lands of Carol Bentley to enter into a development agreement to permit a dog kennel at 164 Cross Road. The purpose of this report is to seek input from HWAB regarding this proposal.

Synopsis of Proposal:

The applicant is proposing the negotiation of a development agreement to permit a 20 dog kennel. If successful, a new 40 m² (432 sq.ft.) accessory building will be constructed in addition to the existing accessory building and dwelling currently located on the property. Also, an area of approximately 600 m² (6,500 sq.ft.) will be enclosed by fencing to accommodate the kennel use. See Map 2 - Site Plan.

The applicant is proposing a composting system to manage the canine waste on-site. This composter is proposed to be located in close proximity to the existing septic field approximately 58 m (190 ft.) from Williams Lake. Details regarding the composting system can be found as Attachment A.

Site Features:

- Located on Cross Road approximately 800 m east of the intersection of Cross Road and Ostrea Lake Road;
- Approximately 5.82 hectares (14.4 acres) in size;
- Existing dwelling on the property;
- Serviced with on-site septic system and well; and
- The property has water frontage on Williams Lake.

Planning Process:

The property is zoned MU (Mixed Use Zone) under the Eastern Shore West Land Use By-law and designated Mixed Use under the Eastern Shore West Municipal Planning Strategy. This designation enables Community Council to consider kennels through Development Agreement.

The kennel would remain subject to other requirements of the Land Use By-Law; specifically Section 4.18 (attached) which regulates watercourse setbacks and buffers.

Input sought from the Halifax Watershed Advisory Board:

As shown on the attached Map 2, the proposed kennel development is setback further from the watercourse than the existing dwelling which is situated approximately 25.9 m (85 ft.) from Williams Lake. Also, as mentioned above the proposed location for the canine waste composter is approximately 58 m (190 ft.) from Williams Lake.

Pursuant to the Board's terms of reference, the Board's input is being sought with respect to the potential impact of the proposed development. HWAB's recommendation and specific comments will be included in the staff report to Marine Drive, Valley and Canal Community Council.

Attachments:

Attachment A	Compost System Details
Attachment B	Section 4.18 of the Eastern Shore West Land Use By-Law
Map 1	Survey Plan
Map 2	Site Plan

Attachment A



Introduction

Archaeological evidence shows that dogs have been used in Alaska for hundreds of years as transportation, hunting, and pack animals. This tradition of living close to canines continues today as Alaska dogs function as devoted pets, competitive athletes, and tireless laborers.

The Environmental Protection Agency estimates that the typical dog excretes three quarters of a pound of waste per day—or 274 pounds per year.¹ A musher with a modest-sized kennel of 20 dogs must dispose of more than two tons of dog waste annually!

To get an idea of the scale of the dog waste generated in Alaska, consider that in Fairbanks and Anchorage alone, an estimated 20 million pounds of dog waste is produced each year.

Left alone, dog waste can pollute ground and surface water, attract flies and pests, cause an unpleasant odor, and create unsanitary living conditions for dogs.

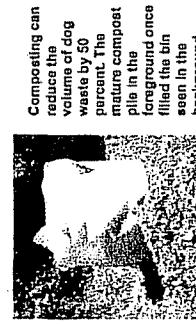
Dog waste can also transmit parasites and infectious diseases.

Composting dog waste is a simple and inexpensive method for disposing of dog waste that can enhance the environment and reduce the amount of waste deposited in landfills.

The goal of the study was to develop easy yet effective dog waste composting practices that reliably destroy pathogens found in some dog feces. This publication draws upon the results of the original study and more than a decade of additional experience.

The Benefits of Composting

- Composting removes raw dog waste from the environment where it can pollute groundwater and streams.
- Good composting destroys pathogens and produces a safe amendment.
- Good on-site composting eliminates transporting dog waste to a disposal facility. This saves time, money, energy, and landfill space.
- Good composting produces a quality soil additive that improves both the physical condition and fertility of the soil.



The Dog Waste Compost Study

In 1991 the Fairbanks Soil and Water Conservation District, with technical assistance from the USDA Natural Resources Conservation Service, conducted a study with dog kennel operators to evaluate the possibility of composting dog waste in northern climates.

¹ The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W Whitten Building, 1400 Independence Avenue, SW Washington, D.C. 20250-9410 or call (202) 720-5954 (voice and TDD). USDA is an equal opportunity provider and employer.

Uses for Dog Waste Compost

Compost is an excellent source of organic matter to add to your garden or pollard plants. It helps improve soil structure which contributes to good aeration and moisture-holding capacity. Compost is also a source of plant nutrients.

Compost can also be used as a mulch material. Dog waste compost can be used as a soil additive for reforestation, lawn establishment, and planting beds. It should not be used on crops grown for human consumption. When used in a polluting mix or flower beds, a 25 percent compost blend is recommended. Compost has a relatively high salinity and is not recommended for germinating seedlings.

What Is Composting?

Composting is the controlled breakdown or degradation of organic material into a product known as humus. Dog waste composting is a natural process that requires air, water, organic matter, microbes and a little human intervention.

Supplies

Composting requires a supply of nitrogen-rich materials (sometimes referred to as green or wet materials) and carbon-rich materials (dry or brown materials).

Nitrogen rich (wet) materials include:

- dog waste
- green grass clippings
- vegetable scraps
- other animal manures
- bagged fertilizer
- fallen leaves

Carbon rich (dry) materials include:

- sawdust
- chopped straw or hay
- shredded newspaper
- dog bedding
- carpet



Dog bedding is a ready source of carbon rich material in some kennels.

need at least two bins, one for collecting waste while the other is actively composting.

You will also need a reliable supply of water. Although water from a garden hose is fine, you may want to temper your water by letting it sit in the sun to warm before adding it to the compost. Cold water, even from rain, will lower the temperature of the compost. This is one reason to keep a cover on your compost bin.

REMEMBER— Small particles have greater surface area than large particles. The finer your composting ingredients are chopped, the hotter your compost will be and the faster it will progress. The best carbon source identified in our study was fine sawdust, like that found at a lumberworking shop or construction site.



- A long-stemmed thermometer is necessary to monitor compost temperature and can be found at some garden supply stores.
- You might find a moisture meter helpful for monitoring the moisture content of the compost pile.
- You will also need a shovel or fork for turning the compost. Our experience was that a long-handled hay fork is easiest to use when turning and mixing, while a shovel is handy for adding and measuring ingredients.
- You will need some kind of bin to contain the composting material. You can compost in a pile or a pit, but it will be difficult to reach the high temperatures needed to destroy pathogens and the process will take longer. Bins improve aeration and facilitate easy turning of the compost. See bin designs on page 4. You will

Composting Dog Waste—Step by Step

- Turn the entire compost pile—from the outside to the inside—in order to ensure that all the material reaches the high temperatures needed to kill pathogens. Repeat the turning process each time the internal temperature of the compost drops. After several cycles, the compost will not heat up. This indicates that the compost is complete.
- Cure your finished compost for several months or even a year before using it. This will stabilize the pH and ensure that the decomposition process is complete.
- **REMEMBER—** It takes at least 10 days, preferably 20, to generate enough waste to maintain a bin. A large pile (3 to 5 foot cube) is needed to provide insulation and keep temperatures high in the pile's center. For fewer dogs you can keep a separate compost bin for dog waste and grass clippings or other nitrogen sources to ease the volume. Treat the finished compost as you would other composted dog manure.

Compost Recipe

Proportion:
2 shovels full of dog waste
1 shovel full of sawdust or other carbon rich material
Build the pile.
Thoroughly mix sawdust and dog waste.
Adding water as you go.
Keep covered and let it "cook".
When the temperature stops rising after turning, repeat the process from 6 to 8 weeks.
Cooking time varies from 6 to 8 weeks.

The second method is to add the carbon sources to the dog waste as you collect it from the dog yard and mix it as it is placed in the bin. This method is easier and as long as the pile remains dry, very little decomposition should happen until you are ready to turn the pile and add water. Because the pile of mixed dog waste and carbon will have a less offensive odor than if the materials are collected separately, many people prefer this method.

- The temperature of a compost mixture is very important. It reflects the level of microbial activity. The center of the compost mixture is the hottest, so insert the thermometer toward the center when taking the temperature. Repeat this in several places. Write the temperature with any comments in a daily record.
- A thermometer and good record keeping are essential to successfully composting dog waste.



Temperatures in fresh compost mixtures rise quickly—up to 160° F—and greater—then decline slowly until the compost temperature approaches air temperature. If you do not see this rapid rise and gradual decline of internal temperatures, the compost recipe may need to be adjusted (see Troubleshooting tips on page 8).

Debilting temperatures indicate it is time to turn the compost. Take care to mix the outside materials towards the center. It will take several turns over a period of six weeks or more for the compost to be mature.

- Compost temperatures can get too high. Don't plunge your hand into the center of an active compost pile. In very rare cases, extremely high temperatures can cause a pile to ignite. Add water to a very hot pile to quickly drop the temperature.

Composting and Winter

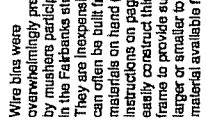
It is possible to compost into the fall, but eventually the cold inhibits the microbial activity. The result is a build up of dog waste in the winter months. With a little planning, the buildup can be added to bins during the winter, and then effectively composted in the warmer months. During the Fallants Soil and Water Conservation District study, these tips encouraged good composting throughout the year:

- When clearing waste from the dog area, add the carbon source directly to your bucket, wheelbarrow, or whatever receptacle you use for collection. Mix the carbon sources and dog waste together, then add the mix to the compost bin. Store the compost ingredients directly in the bins; after spilling them, turn the pile and add water to begin composting.
- Avoid mixing excess snow with the dog waste. Don't let your pile grow too large. If your winter compost pile will exceed five feet across before spring, either start a second pile or consult local NRCS staff for more information on large-scale animal waste composting systems.

Compost Bin Designs

There are many bin designs to choose from and new ideas come along every year. Spend a little time learning about bins now, and you might save yourself frustration and expense later on. Choose a system that meets your individual needs and fits your site.

Wire Cylinder



Wire bins were overwhelmingly preferred by mousers participating in the Fallants study. They are inexpensive and can often be built from materials on hand (see instructions on page 7 to easily construct this bin). Some have a wooden frame to provide support, and many can be made larger or smaller to accommodate the amount of material available for composting.

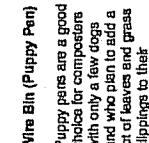
The compost material in wire bins is very easy to turn. The bin can be disassembled then reassembled next to the compost pile. The compost is then turned back into the same bin.

Wire bins allow the most air to reach the material, resulting in high compost temperatures and more complete destruction of pathogens. Wire bins produce hot, fast compost that will mature quickly, while the bins need to be tended more intensively than do other designs.

Wire bins are a good choice where rodents or other pests are a problem.

One drawback to wire bins is that they do not retain heat as well as plastic or wood bins and so probably are not a good choice for cool, wet climates or areas with an extremely short compost season.

Some wire bins are not very sturdy and can be crushed in a busy dog yard. Don't expect light weight wire bins to last more than a few years.



Puppy pens are a good choice for composters with only a few dogs and who plan to add a lot of leaves and grass clippings to their compost. You can find commercial versions of these wire bins, which makes them convenient for those who don't want to build their own.

Be aware that wire bins with large openings may have trouble containing compost. But like other wire bins this design provides the most air to the compost material, which produces hot, fast compost.

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Wire bins do not retain heat as well as plastic or wood bins. They are probably not a good choice for cool, wet climates or areas with a frost-free season of two months or less.

Rigid Plastic Bins



These bins are small and bland in with gardens and landscaping. They tend to stay warmer in cool, wet weather than some of the other designs, which can extend the composting season into the fall months.

If time to turn the pile is limited, then rigid plastic bins are a good choice. You can add material at the top and use an aerator tool for mixing. Finished compost is extracted from an opening in the bottom. These bins allow less air to reach the material than do wire bins and therefore do not reach the high temperatures you can expect with wire bins. They also are too small to compost waste for large numbers of dogs.



Pallet bins are not very flexible in terms of size, are very heavy and can make turning the compost difficult. Wood tends to decompose over time and bins will have to be replaced after a few years—particularly in wet climates.

Pallet bins are an excellent choice for storing carbon materials and finished compost.

Pallet bins allow the compost material to receive plenty of air but they are not a great choice if rodents or other pests are a problem. Lining a pallet bin with hardware cloth is an option if pests are a problem.

-5-



Tumbler Bins

Tumbler-type compost bins tend to be more expensive to build or purchase. Some incorporate a pipe for passive aeration but all are intended to be rotated to sit the compost.

For many tumbler models, rotating the bin is more difficult than it looks. Physics is on your side but you are still moving the entire contents of the bin at one time. Some bins have the annoying habit of losing the lid and dumping the contents on your feet. If possible, try using the tumbler before you purchase it.



Stacking Type

These bins should not be filled more than about one-half full to leave room for mixing. Tumblers allow less air to reach the compost material than do many other systems and do not reach the high temperatures you can expect with wire bins.

These bins share many of the drawbacks of the rigid plastic bins. They are small and do not allow a lot of air to reach the compost material, but they retain heat well and may extend the compost season.



Passive Aeration

Passive aeration can be used with a variety of bin types. The idea is to get oxygen into the center of the pile without having to turn or sift the compost. Perforated pipe is inserted into the compost. The ends of the pipe are left open to allow air exchange.

The initial construction of a passive aeration system requires a little more forethought and is more management than a turned pile, but it minimizes much of the work. The compost temperature should

be maintained and water must still be added regularly.

One step up from the passively aerated pile is a forced air system where a blower or pump is connected to pipes to force air into the center of the pile.

For help designing forced aeration and other complex systems consult NRCS or another qualified professional.

Compost Maturity

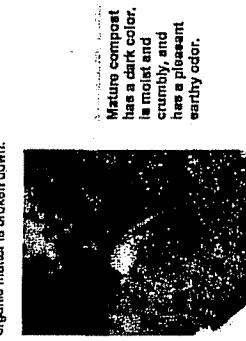
The easiest way to determine if compost is mature—meaning all the organic materials have decomposed—is by monitoring its temperature. If, after several turnings, raking, and aerations, the compost does not heat spontaneously, it is probably mature.

Compost maturity has important implications for plant growth. The final step in composting is to cure the compost for at least a month and preferably over winter.

Cured compost does not compete with plants for nutrients. If unfinished compost is mixed into the soil, it may tie up oxygen and nutrients necessary for plant growth. These nutrients are not gone from the soil, but made unavailable to the plants until the organic matter is broken down.

Although there are many potential pathogens, the primary agents for disease are roundworm eggs. They are too small to see with the human eye. Dogs become infected with roundworms by swallowing the eggs in soil where other dogs have defecated. Infected female dogs pass on roundworms to their puppies. Roundworm eggs hatch in the dog's intestine, migrate through the liver and lungs and return to mature in the intestine. The adult roundworm lays eggs which are passed on to the soil, thus completing the life cycle. If humans ingest the eggs, they hatch in the intestine and migrate to other body tissue like lungs, liver, and spinal cord. The larvae can even attack the retina in the eye.

Mature compost has a dark color, is moist and crumbly, and has a pleasant earthy odor.



Health Concerns

All compost contains mold and fungus spores which may cause an allergic response in sensitive individuals.

Keep animals, particularly puppies and pregnant females, away from the compost area to prevent transmitting any diseases to other dogs, livestock, and wildlife.

Dogs can transmit diseases to humans regardless of whether you are petting a dog or shoveling waste into a compost bin. Children can be at greater risk because they frequently put their hands and other items in their mouths.

REMEMBER—The best way to decrease health risks associated with dog waste is to have healthy dogs. Follow a worming schedule developed by a veterinarian familiar with local conditions.

Health risks vary depending on the climate, so ask a local veterinarian to recommend a parasite control program suitable for your area.

Although there are many potential pathogens, the primary agents for disease are roundworm eggs. They are too small to see with the human eye. Dogs become infected with roundworms by swallowing the eggs in soil where other dogs have defecated. Infected female dogs pass on roundworms to their puppies. Roundworm eggs hatch in the dog's intestine, migrate through the liver and lungs and return to mature in the intestine. The adult roundworm lays eggs which are passed on to the soil, thus completing the life cycle. If humans ingest the eggs, they hatch in the intestine and migrate to other body tissue like lungs, liver, and spinal cord. The larvae can even attack the retina in the eye.

In certain geographical areas, other parasites may be a problem. One tapeworm (*Echinococcus* sp.) found in remote regions can produce life-threatening cysts if ingested.

Disease transmission from most parasites one might encounter when composting dog waste can be avoided by not coming in contact with the eggs.

Do not compost wastes from dogs showing signs of disease or illness. This waste should be disposed of in another manner.

Decrease health risks by:

- Wearing rubber gloves and always washing hands after handling dogs or dog waste
- Containing dog waste to a specific area
- Not including waste from unknown dogs
- Keeping dog waste, tools and clighting separate from other tools and clighting
- Not feeding dogs raw meat or fish
- Do not allow children to play in areas where dog waste compost has recently been applied
- Consulting a veterinarian about a parasite control program for your area
- Not applying dog waste compost to crops intended for human consumption

Building A Wire Compost Bin

Materials:

- ✓ 10' of 1/2" hardware cloth, 3' wide
- ✓ 3 swivel snaps
- ✓ Wood or plastic for bin cover

Tools:

- ✓ Wire cutters
- ✓ Gloves
- ✓ Tape measure



Troubleshooting

Condition	Possible Cause	Solution
Compost does not heat up or heats up slowly	> Not enough nitrogen source > Not enough moisture > Not enough air > Too much moisture	Add dog waste or other nitrogen sources Add water Turn compost piles Add dry materials, mix and cover
Compost smells bad	> Too much nitrogen source > Too much moisture > Not enough air	Add sawdust or other carbon source Add dry materials, mix and cover Turn the compost pile and/or consider an alternative bin design
Fly infestation	> Fresh materials near the surface	Cover new compost with a layer of finished compost, sawdust, or wrap bin in porous weed control fabric
Extremely high temperatures in excess of 160°F	> Compost piles too large or too much air	Divide compost, add water and turn You can add water in an emergency to quickly lower temperatures

Record Keeping Sheet

Kennel Name	Starting Date	Comments
	Example: 6/12	Load for today - temp 70° avg

The height regulations of this By-law shall not apply to church spires, water tanks, elevator enclosures, silos, flagpoles, television or radio antennae, telecommunication towers, space centres, ventilators, skylights, barns, chimneys, clock towers, windmills or solar collectors.

4.18 WATERCOURSE SETBACKS AND BUFFERS

- (1)
 - (a) No development permit shall be issued for any development within 20m of the ordinary highwater mark of any watercourse.
 - (b) Where the average positive slopes within the 20m buffer are greater than 20%, the buffer shall be increased by 1 metre for each additional 2% of slope, to a maximum of 60m.
 - (c) Within the required buffer pursuant to clauses (a) and (b), no excavation, infilling, tree, stump and other vegetation removal or any alteration of any kind shall be permitted in relation to a development.
 - (d) Within the required buffer pursuant to clauses (a) and (b), activity shall be limited to the placement of one accessory structure or one attached deck not exceeding a footprint of 20 m² or a combination of an accessory structure and attached deck not exceeding 20 m², fences, boardwalks, walkways and trails not exceeding 3 metres in width, wharfs, boat ramps, marine dependent uses, fisheries uses, conservation uses, parks on public lands, historic sites and monuments, and public road crossings, driveway crossings and wastewater, storm and water infrastructure.
 - (e) Notwithstanding clause (a), the required buffer for construction and demolition operations shall be as specified under the applicable CD Zone.
 - (f) Within the buffer required pursuant to clause (f), no excavation, infilling, tree, stump and other vegetation removal or any alteration of any kind shall be permitted in relation to a development.
- (2) Notwithstanding subsection (1), where an existing residential main building is located within the required buffer, accessory structures, subject to meeting other requirements of this by-law, shall be permitted provided they are located no closer to the watercourse than the existing main building.
- (3) Where the configuration of any existing lot, including lots approved as a result of completed tentative and final subdivisions applications on file prior to the effective date of the Regional Municipal Planning Strategy, is such that no main building could be located on the lot, the buffer distance shall be reduced in a manner which would provide the greatest possible separation from a watercourse having regard to other yard requirements.
- (4) Notwithstanding subsection (1), nothing in this by-law shall prohibit the removal of windblown, diseased or dead trees, deemed to be hazardous or unsafe.

- (5) Notwithstanding subsection (1), the selective removal of vegetation to maintain the overall health of the buffer may be authorized by the Development Officer where a management plan is submitted by a qualified arborist, landscape architect, forester or forestry technician.
- (6) Every application for a development permit for a building or structure to be erected pursuant to this section, shall be accompanied by plans drawn to an appropriate scale showing the required buffers, existing vegetation limits and contours and other information including professional opinions, as the Development Officer may require, to determine that the proposed building or structure will meet the requirements of this section. (RC-Jun 27/06;E-Aug 26/06)

4.18A COASTAL AREAS

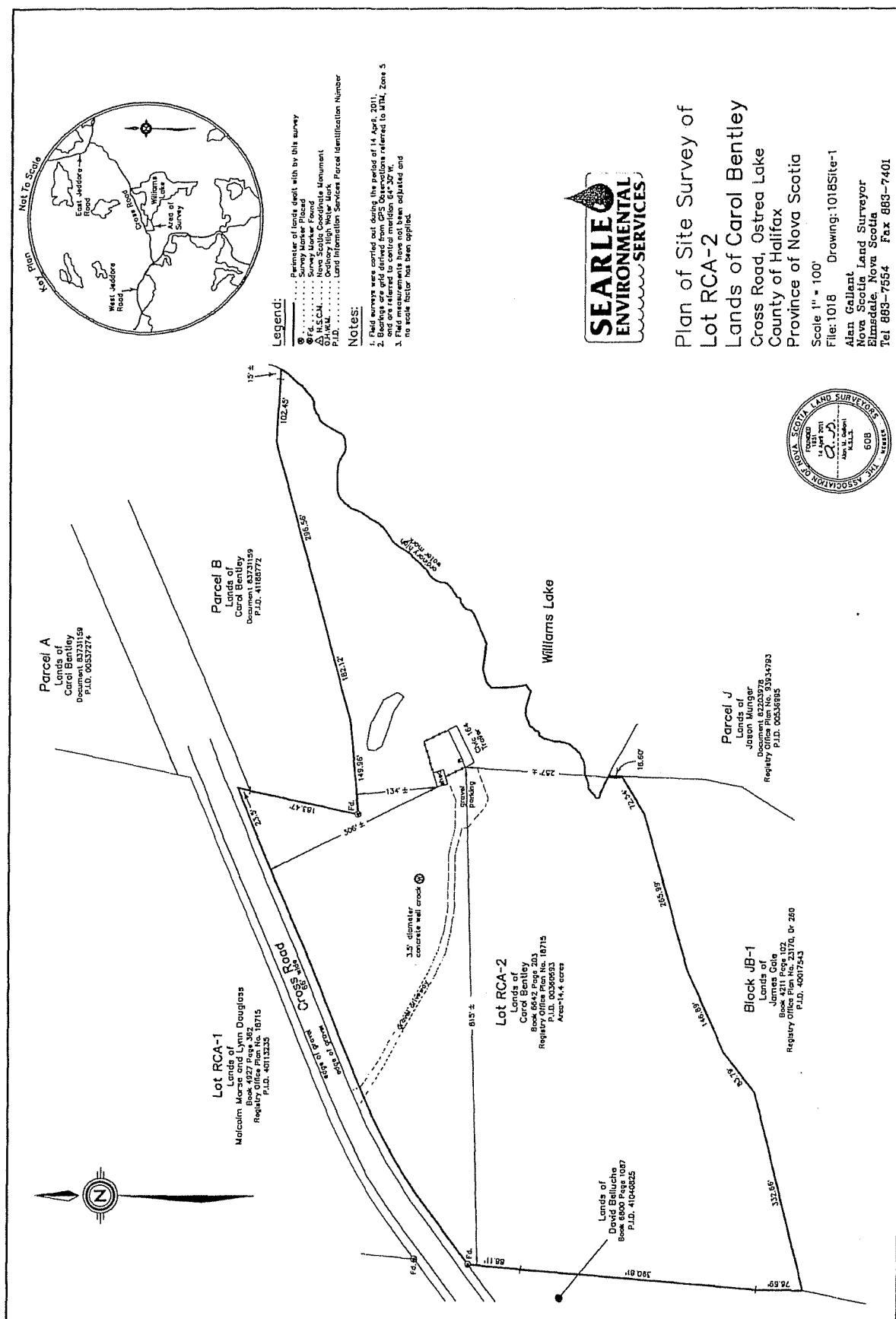
- (1) No development permit shall be issued for any dwelling on a lot abutting the coast of the Atlantic Ocean, including its inlets, bays and harbours, within a 2.5m elevation above the ordinary high water mark.
- (2) Subsection (1) does not apply to any residential accessory structures, marine dependant uses, open space uses, parking lots and temporary uses permitted in accordance with this by-law.
- (3) Notwithstanding subsection (1), any existing dwelling situated less than the required elevation may expand provided that such expansion does not further reduce the existing elevation.
- (4) Every application for a development permit for a building or structure to be erected pursuant to this section, shall be accompanied by plans drawn to an appropriate scale showing the required elevations, contours and lot grading information to determine that the proposed building or structure will meet the requirements of this section. (RC-Jun 27/06;E-Aug 26/06)

4.19 PERMITTED ENCROACHMENTS

Every part of any yard required by this By-law shall be open and unobstructed by any structure except to permit uses or encroachments subject to the following provisions:

- (a) Uncovered patios, walkways or steps may be located in any yard.
- (b) There may be erected or maintained in any yard, the usual projections of sill, cornices, eaves, gutters, chimneys, pilasters, canopies or other architectural features, provided that no such structure or feature shall project more than two (2) feet (0.6 m) into any required yard.
- (c) Window bays and solar collectors may be permitted to project not more than three (3) feet (0.9 m) from the main wall into a required front, rear or flankage yard.
- (d) Exterior balconies, porches, verandas, sundecks and solariums shall not be permitted to project into any required yard.

Map 1



Map 2

