

PO Box 1749 Halifax, Nova Scotia B3J 3A5 Canada

## **MEMORANDUM**

SUBJECT:	<b>Case # 17055:</b> 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.
DATE:	September 12, 2011
FROM:	Jacqueline Bélisle, Planner, Community Development
TO:	Chair and Members of Halifax Watershed Advisory Board

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 m<sup>2</sup> (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 m<sup>2</sup> (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



For More Information USDA Natural Resources Conservation Service 800 West Evergreen Avenue, Suite 100 Palmer, AK 99645 (907) 761-7760 www.ak.nrcs.usda.gov

Fairbanks Soll and Water Conservation District 590 University Avenue, Suite B Fairbanks, AK 99709-3641 (907) 479-1213

#### Credits

Photos by Ann Rippy, Cassandra Stalzer and Mitch Michaud, Natural Resources Conservation Service. Compost bin illustrations by Ellen Million and Noël Bell.

Thanks to the Alaska Department of Environmental Conservation and the U.S. Environmental Protection Agency for support and funding of the original study. And a huge thank you to all the mushers and kennel owners who were willing guinea pigs and creative innovators.

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#### Introduction

Archeological evidence shows that dogs have been used in Alaska for hundreds of years as transportation, hunting, and pack animals. The tradition of living close to canines continues today as Alaska dogs function as devoled pats, 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<sup>1</sup>.

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.

Dog waste is a

safe soil additive

for revegetation

and landscaping

when it is

properly.

composted

Left alone, dog waste can pollute ground and surface water, attract files 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<sup>2</sup>.

#### 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 compositing dog waste in northern climates.

<sup>1</sup> The actual volume of dog waste depends on the dog and its diet. Working dogs that are fed high protein, high energy diets of concentrated feed will produce less waste than less active dogs that are fed a less concentrated feed.

<sup>2</sup> This study only included dog waste. Cat and other pet wastes were not studied. Cats may carry parasites that are harmful to human febuses. We do not recommend adding cat waste or cat litter to your compost. The goal of the study was to develop easy yet effective dog waste composting practices that reliably destroy pathogens found in some dog teces.

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 soil 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 soll additive that improves both the physical condition and fertility of the soll.



Composting can reduce the volume of dog waste by 50 percent. The mature compost pile in the foreground once filled the bin seen in the background.

#### **Uses for Dog Waste Compost**

Compost is an excellent source of organic matter to add to your garden or potted 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 revegetation, lawn establishment, and planting beds. It should not be used on crops grown for human consumption. When used in a potting 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)

Think Protein

Nitrogen rich (wet) materials include:

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

Nitrogen is a major component of protein, so when you look for nitrogen rich materials for your compost, look for materials high in compost, ioun ior material and ingening protein like fish waste, blood meal, cottonseed meal, and some kitchen scrops

Carbon rich (dry) materiais include:

- sawdust
- + chopped straw or hav
- shredded newspaper
- dog bedding
- fallen leaves
- 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 heipful for monitoring the moisture content of the composinlle
- You will also need a shovel or fork for turning the compost. Our experience was that a longhandled 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

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.



study was fine sawdust like that found at a woodworking shop or construction site.



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

#### Composting Dog Waste-Step by Step

There are two methods you can use to build your compost pile. The first is to collect the materials separately and then mix them all at once. The advantage of this method is that the materials will not begin to decompose until mixed. You will get the highest temperatures and the fastest compost when

dog manure. Compost Recipe carbon, water, and air are all Proportions: 2 shovels full of dog wasts introduced at the 1 shovel full of sawdust or other carbon same time. However, this rich material method might Thereughly mix sawdust and dog wasts, Build the pile: have a higher adding water as you go. "gag factor." Keep covered and let it "cook." When the temperature drops, turn The second method Repeat until the temperature stops is to add the rising after turning. Cooking time varies from 6 to 8 weeks. carbon source to the dog waste as you collect it from the dop 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

- · To begin, choose a sunny, dry site near the dog area for your compost bin. The site should not be near pregnant or nursing dogs, or where runoff from the pile would flow into the dog vard.
- · For every two shovels full of dog waste, add one shovel full of sawdust or other carbon source. Mix thoroughly after each addition.
- Add water in small amounts until the compost mixture is as moist as a wrung out sponge.
- Continue adding ingredients until the compost is two to three feet deep. Once a bin is full, do not continue adding fresh materials.
- Place a cover on the compost mixture. Microbes will begin breaking down the organic materials. As the microbes go to work, they release heat and increase the temperature of the compost oile
- insert the compost thermometer daily and record the internal temperature. When the temperature starts to decline-usually in two weeks-it is time to turn the compost.

- · Turn the entire compost plie-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 process 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.



keep temperatures high in the pile's center. For fewer dogs you can keep a separate compost bin for dog waste and add grass clippings or other nitrogen sources to increase the volume. Treat the finished compost as you would other composted dog manure.

#### **Compost and Temperature**

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 weets



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).

Declining temperatures indicate it is time to turn the compost. Take care to mix the outside materials towards the center. It will take several turnings 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 composi olla, in verv rare cases, extremely high temperatures

pethetions can cause a pile to ignite. Add water to a very hot pile to quickly drop the temperature.

Importantil

Compost must react

145% (01 1000001)

daysto destray

#### **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 Fairbanks Soll and Water Conservation District study, these steps 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 source and dog waste together, then add the mix to the compost bin.
- Store the compost ingredients directly in the bins; after spring thaw, 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 plie 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 blns were overwhelmingly preferred by mushers participating in the Fairbanks study. They are inexpensive and can often be built from materials on hand (see instructions on page 7 to

Wire Cylinder

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, but the bins need to be tended more intensively than do other designs

Wire bins are a good choice where rodents or other peats 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.

Wire Bin (Puppy Pen)

Puppy pans are a good choice for composters with only a few doos 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.

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**

gardens and



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 tend the plie 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 doos.

#### Pallet Bin

Wooden bins that are made from pallets or slab wood are cheap and effective. You can build a bin with four pallets and a few feet of twine in less than an hour.

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

Pailet 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.

Tumblar 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 stir the composit.



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

These bins should not be filled more than about one-half full to leave room for mixing. Tumbiers 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.

#### Stacking Type

You can nurchase a three tier stacking bin made of recycled plastic or build your own out of wood. Either way, this kind of bin is easy to turn and very tidy looking.



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 plie without having to turn or stir the compost. Perforated blog is inserted into the composit



as the pile is constructed. 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 a lot more management than a turned pile, but it eliminates much of the work. The compost temperature should

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be monitored and water must still be added regularly.

One step up from the passively aerated pile is a forced at 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**

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 the 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.

collapsed alternatives

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 pupples and pregnant females, away from the compost area to prevent transmitting any disease 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.



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 ase with the human eye. Dogs become infacted with roundworms by swallowing the eggs in soil where other dogs have defecated. Infacted 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 cycie. If humans ingest the eggs, they hatch in the intestine and migrate to other body lissue like lungs, liver, and spinal cord. The larvase can even attack the retines in the eye.

In certain geographical areas, other parasites may be a problem. One tapeworm (Enchinococcus 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 waste 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
- Confining dog waste to a specific area
- Not including waste from unknown dogs
- Keeping dog waste tools and clothing separate from other tools and clothing
- 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 ½" hardware cloth, 3' wide
- 3 swivel snaps
- Wood or plastic for bin cover

Tools:

- ✓ Wire cutters
- ✓ Gloves
- Tape measure

Cut a 10' length of hardware cloth. The cloth will naturally form a circle because it has been stored in a roll. Overlap the edges of the cloth by at least 6''. Use the wire cutters to remove one side of a X'' square. This makes it easier to clip the swivel snaps into the hardware cloth. The cut will need to go through both layers of hardware cloth. Make three of these cuts evenly distributed along the overlap as shown in the drawing. Clip the bin together using the bin with materials to be composted. Cover the bin with a sheet of plastic or piece of plywood to retain heat and keep out rain.





Finished Bin

### Troubleshooting

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

#### **Record Keeping Sheet**

lennel Na			Starting Date		
Date		Temperature         Comments           98         Loaded bin today -temp already riving			
Example	6/12	98	Loaded bin today -temp already rising		
		<u> </u>	}		
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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) There 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 m<sup>2</sup> or a combination of an accessory structure and attached deck not exceeding 20 m<sup>2</sup>, 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

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