

Village of Belcarra

Water Use Efficiency

March 5, 2007




Purpose of Public Open House

- To present information about water use efficiency
- Outline the purpose and Provincial requirements for water use efficiency
- Provide an overview of the recommendations



Why Implement Water Use Efficiency?

- Reduced loading on water and septic tank facilities
 - Extension of existing water supply facilities
 - Requirement for Provincial funding support
 - Regulatory requirements
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- The bottom right corner of the slide features a decorative graphic of several concentric circles, resembling ripples on water, rendered in a lighter shade of blue against the dark blue background.


Average Water Use

Average Indoor Water Use				
	Standard Home		Water Conserving Home	
Clothes Washer	55 L	21%	38 L	22%
Dishwasher	5 L	2 %	3 L	2 %
Faucet	42 L	16 %	41 L	24 %
Other	5 L	2 %	6 L	3 %
Domestic Leakage	37 L	14 %	15 L	9 %
Toilets	68 L	26 %	31 L	18 %
Baths	5 L	2 %	5 L	3 %
Showers	45 L	17 %	33 L	19 %
Total per capita indoor use	262		171 (35% reduction)	
Average Indoor to Outdoor Water Use				
Percent Indoor	69%			
Percent Outdoor	31%			

Water Conservation Measures

Conservation Measure	Impacts on Water Demands	Potential Impacts on Wastewater Flows
Universal metering	In-home	Reduced
Water use restriction	Outside home	None
Revisions to plumbing and building codes	In-home	Reduced
Water saving devices	In-home	Reduced
Public education	In-home	Reduced
Leak detection and repair	Outside home	None
Adjustment of water rates	In-home	Reduced
Water reuse	In-home	Reduced
Landscaping	Outside home	None

Universal Metering

- Understanding of where water goes
 - Information for consumers on water use
 - Appropriate billing
 - Bill according to use
 - Set “Life line rate”
 - Various billing programs targeting conservation
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Water Use Restrictions

- GVRD has a lawn sprinkling regulation
- Belcarra would become subject to the regulation
- One part of “Water Shortage Response Plan”

THE SUSTAINABLE REGION INITIATIVE • • • TURNING IDEAS INTO ACTION

Lawn Sprinkling Regulations

June 1 to September 30

Lawn sprinkling is allowed
4 to 9 a.m. and 7 to 10 p.m.

Even-numbered addresses: Wednesdays and Saturdays
Odd-numbered addresses: Thursdays and Sundays

For details about the sprinkling restrictions, contact the RCBC Recycling Hotline at 604-732-9253. For enforcement information, please contact your municipality.

Lawn Watering Tips

Established lawns only need 2.5 cm of water a week, including rainfall. Water only once a week early in the morning to reduce evaporation.

For more information:
www.gvrd.bc.ca
or
icentre@gvrd.bc.ca



Place an empty tuna can by your sprinkler and time how long it takes to fill up. That's how long you need to water your lawn each week!

Complying with lawn sprinkling regulations is one way you can contribute to a sustainable region.

Home Pages: Choices for wiser living



For more tips on natural and waterwise yard care, turn to the 'Home Pages: Choices for wiser living' in the front section of your SUPERPAGES™ White Directory for simple ideas that will get you started.

Plumbing and Building Codes

- Upon “joining” the GVWD Belcarra would become subject to *B.C. Reg 198/2005 : Water Conservation Plumbing Regulation*

Maximum Flush Cycle	
Fixture	Litres
Water Closet (Tank Type)	6.0
Water Closet (Direct Flush)	6.0

- Applies to all new units

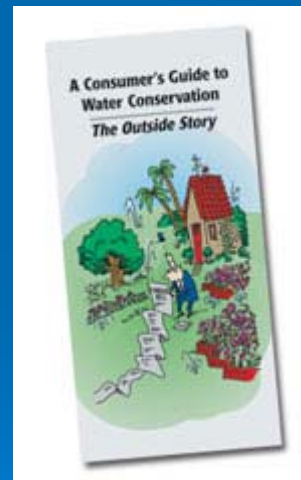
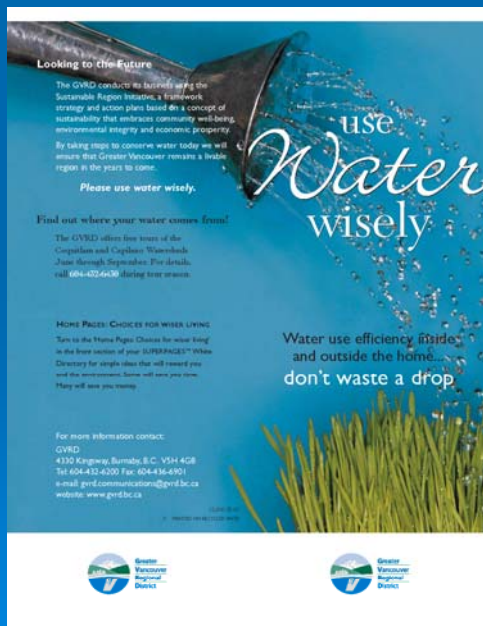
Water Savings Devices

- Distribute “Water Fixture Retrofit Kits”
- City of Vancouver price \$12 each
- Typically cost \$30 plus administrative costs



Public Education

- Bill stuffers or door drop handouts
- Can purchase or create handouts



Recommendations

(Following Implementation of Water Supply)

1. Continue with metering program
2. Public education
3. Inform public of lawn sprinkling restriction
4. Monitor water use and prepare annual report
5. Plumbing or building by-law outlining maximum water use fixtures
6. Fixture retrofit program