





## GREEN BUILDING CHECKLIST

The purpose of this Checklist is to make property owners and developers aware of specific green features that can be included in new developments to reduce their carbon footprints to help create a more sustainable community.

Creating walkable neighbourhoods, fostering green building technologies, making better use of our limited land base and ensuring that new development is located close to services, shops and transit are some of the means of achieving sustainability.

The Checklist which follows focuses on the use of **Green Technologies** in new buildings and major renovations. The Checklist is not a report card, it is a tool to help identify how your project can become 'greener' and to demonstrate to Council how your project will help the Township of Esquimalt meet its sustainability goals. It is not expected that each development will include all of the ideas set out in this list but Council is looking for a strong commitment to green development.

There are numerous green design standards, for example, Built Green BC; LEED ND; Living Building Challenge; Green Shores; Sustainable Sites Initiative. Esquimalt is not directing you to follow any particular standard, however, you are strongly encouraged to incorporate as many green features as possible into the design of your project.

As you review this checklist, if you have any questions please contact **Development Services at 250.414.7108** for clarification.

New development is essential to Esquimalt.
We look forward to working with you
to ensure that development is
as green and sustainable as possible.

Other documents containing references to building and site design and sustainability, which you are advised to review, include:

- Esquimalt's Official Community Plan
- Development Protocol Policy
- Esquimalt's Pedestrian Charter
- Tree Protection Bylaw No. 2664
- A Sustainable Development Strategic Plan for the Township of Esquimalt

Adopted on January 10th, 2011



"One-third of Canada's energy use goes to running our homes, offices and other buildings. The federal government's Office of Energy Efficiency (Natural Resources Canada) reports that a corresponding one-third of our current greenhouse gas (GHG) emissions come from the built environment."

[Green Building and Development as a Public Good, Michael Buzzelli, CPRN Research Report June 2009]

Please answer the following questions and describe the green and innovative features of your proposed development. Depending on the size and scope of your project, some of the following points may not be applicable.

Bo	reen Building Standards oth energy use and emissions can be reduced by changing or modifying the way we build and equip our illdings.					
1	Are you building to a recognized green building standard?  If yes, to what program and level?  Yes  No					
2	If not, have you consulted a Green Building or LEED consultant to discuss the inclusion of green features?					
3	Will you be using high-performance building envelope materials, rainscreen siding, (Yes) No durable interior finish materials or safe to re-use materials in this project?  If so, please describe them. WOOD FLOORING, GRANITE COUNTERS					
4	What percentage of the existing building[s], if any, will be incorporated into the new building?					
5	Are you using any locally manufactured wood or stone products to reduce energy used in the transportation of construction materials? Please list any that are being used in this project.  LOCAL CEDAR FOR EXTERIOR					
6	Have you considered advanced framing techniques to help reduce construction costs (Yes) No and increase energy savings?					
7	Will any wood used in this project be eco-certified or produced from sustainably managed forests? If so, by which organization? PEFC CERTIFIED WIBER THROUGH WIFRASER M					
	For which parts of the building (e.g. framing, roof, sheathing etc.)?					
8	Can alternatives to Chlorofluorocarbon's and Hydro-chlorofluorocarbons which are often used in air conditioning, packaging, insulation, or solvents] be used in this project? If so, please describe these.					
9	List any products you are proposing that are produced using lower energy levels in manufacturing.					
10	Are you using materials which have a recycled content [e.g. roofing materials, interior doors, ceramic tiles or carpets]?					
11	Will any interior products [e.g. cabinets, insulation or floor sheathing] contain  Yes  No					
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The	ater Management e intent of the following features is to promote water conservation, re-use water on site, and reduce rm water run-off.
12	oor Water Fixtures  Does your project exceed the BC Building Code requirements for public lavatory  Yes faucets and have automatic shut offs?
13	For commercial buildings, do flushes for urinals exceed BC Building Code requirements?
14	Does your project use dual flush toilets and do these exceed the BC Building Code (Yes) No requirements?
15	Does your project exceed the BC Building Code requirements for maximum flow Yes rates for private showers?
16	Does your project exceed the BC Building Code requirements for flow rates for Yes kitchen and bathroom faucets?
Stor 17	If your property has water frontage, are you planning to protect trees and vegetation within 60 metres of the high water mark? [Note: For properties located on the Gorge Waterway, please consult Sections 7.1.2.1 and 9.6 of the Esquimalt Official Community Plan.]
18	Will this project eliminate or reduce inflow and infiltration between storm water (Yes) No N/A and sewer pipes from this property?
19	Will storm water run-off be collected and managed on site (rain gardens, wetlands, or ponds) or used for irrigation or re-circulating outdoor water features? If so, please describe.
20	Have you considered storing rain water on site (rain barrels or cisterns) for future Yes No N/A irrigation uses? RAIN BARRELS
21	Will surface pollution into storm drains will be mitigated (oil interceptors, bioswales)? If so, please describe.
22	Will this project have an engineered green roof system or has the structure been designed for a future green roof installation?
23	What percentage of the site will be maintained as naturally permeable surfaces?
	For larger projects, has Integrated Descripted Management (IDM) In a service of the larger projects and integrated Descripted Management (IDM) in the larger projects and the larger projects are serviced by the larger projects and the larger projects are serviced by the larger projects and the larger projects are serviced by the larger projects and the larger projects are serviced by the larger projects and the larger projects are serviced by the larger projects and the larger projects are serviced by the larger project are serviced by the larger projects are serviced by the larger project are serviced by the larger
24	For larger projects, has Integrated Resource Management (IRM) been considered Yes No (N/A) (e.g. heat recovery from waste water or onsite waste water treatment)? If so, please describe these.
	tural Features/Landscaping
The	way we manage the landscape can reduce water use, protect our urban forest, restore natural etation and help to protect the watershed and receiving bodies of water.
	Are any healthy trees being removed? If so, how many and what species? (Yes) No N/A
(	Could your site design be altered to save these trees?  RECEIVED
	Have you consulted with our Parks Department regarding their removal?

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The	r Quality e following items are intended to ensure optimal air quality for building occupants be products which give off gases and odours and allowing occupants control over vent	by redu ilation	ucing t	the use				
46	Will ventilation systems be protected from contamination during construction and certified clean post construction?	Yes	) No	N/A				
47	Are you using any natural, non-toxic, water soluble or low-VOC [volatile organic compound] paints, finishes or other products? If so, please describe.	Yes	) No	N/A				
48	Will the building have windows that occupants can open?	Yes	No	N/A				
49	Will hard floor surface materials cover more than 75% of the liveable floor area?	Yes	. No	N/A				
50	Will fresh air intakes be located away from air pollution sources?	Yes	) No	N/A				
Reuse and recycling of material reduces the impact on our landfills, lowers transportation costs, extends the life-cycle of products, and reduces the amount of natural resources used to manufacture new products.  Solid Waste  Reuse and recycling of material reduces the impact on our landfills, lowers transportation costs, extends the life-cycle of products, and reduces the amount of natural resources used to manufacture new products.  Will materials be recycled during demolition of existing buildings and structures?  Yes No N/A If so, please describe.								
52	Will materials be recycled during the construction phase?  If so, please describe. DEXWALL PLASTICS (METAL/CARDENAL)	Yes	No	N/A				
53	Does your project provide enhanced waste diversion facilities i.e. on-site recycling for cardboard, bottles, cans and or recyclables or on-site composting?	Yes	(No)	N/A				
54	For new commercial development, are you providing waste and recycling receptacles for customers?	Yes	No(	N/A				
Green Mobility  The intent is to encourage the use of sustainable transportation modes and walking to reduce our reliance on personal vehicles that burn fossil fuels which contributes to poor air quality.								
55	Is pedestrian lighting provided in the pathways through parking and landscaped areas and at the entrances to your building[s]?	Yes	No (	Ñ/A				
56	For commercial developments, are pedestrians provided with a safe path[s] through the parking areas and across vehicles accesses?	Yes	No(	N/A				
57	Is access provided for those with assisted mobility devices?	Yes(	No	N/A				
58	Are accessible bike racks provided for visitors?	Yes (	No	N/A				
59	Are secure covered bicycle parking and dedicated lockers provided for residents or employees?	Yes (	No	N/A				
60	Does your development provide residents or employees with any of the following features to reduce personal automobile use [check all that apply]:  transit passes car share memberships shared bicycles for short term use weather protected bus shelters plug-ins for electric vehicles							
	Is there something unique or innovative about your project that has been addressed by this Checklist? If so, please add extra pages to descri	<b>ON 1</b> be it. RP. OF T OF ESQ	8 201 TOWNS UIMAL	1				
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