CITY OF KELOWNA

MEMORANDUM

Date: May 31, 2007

File No.: n/a

To: City Manager

From: Planning and Development Services (RS)

Subject: Sustainability Checklist

Report Prepared by: Ryan Smith

RECOMMENDATION:

That Council receive the report from staff dated May 31, 2007 which introduces Kelowna's Sustainabilty Checklist;

That Council endorse the use of Sustainability Checklist on a voluntary basis to help evaluate new development proposals;

BACKGROUND:

The City of Kelowna has also embarked on a variety of sustainability related initiatives over the past two years primarily driven by the Energy Management Committee and Sustainability Working Group. An interdepartmental report will come forward to Council in the coming weeks detailing their work which is more corporately focused. While work to date has primarily been policy related, staff has also been examining more immediate ways in which to promote and raise awareness for sustainability concepts in the development industry.

Staff has recently completed a "Sustainability Checklist" which is a voluntary checklist which developers (or their architects) are given to evaluate their own developments. The checklist is based on a "triple bottom line" approach meaning that not only does the checklist evaluate the environmental impacts but also the economic and social impacts of proposed development. At this point staff are intending the checklist to be voluntary but do intend on reporting back to Council on any innovative ideas, or sustainable project highlights highlighted in the checklist. A copy of this checklist is attached to this report. We have suggested the use of this checklist for a couple of recent development applications and have received one "test" completed checklist. This checklist was completed by the Mission Group for a Development Proposal on Dickson Avenue which will come forward to Council in their near future. The applicant in this case did not report any complaints with the checklist. Staff proposes to monitor the use of the checklist and report to Council after a year if refinements are required. Possible refinements include the addition of more concrete targets for energy efficiency and sustainable construction practices.

Staff is hoping that the checklist will help to raise awareness regarding issues pertaining to sustainability and help to educated the development community. The checklist is based on others that are currently in use in New Jersey, New Westminster, Port Coquitlam and Vernon (among many cities).

IMPLEMENTATION:

At this point staff are seeking Council's endorsement for the implementation of this checklist (on a voluntary basis) in order that staff may provide Council the best possible information when discussing the merits of individual applications in terms of sustainability. Staff are anticipating that applicants for large multi-family developments, large commercial development and subdivision greater than three lots be subject to the checklist. At this point the checklist is relatively lengthy due in part because it is also an informational tool; however, staff is anticipating that as the development industry's understanding of Sustainability increases, the length of the checklist could reduced significantly. Initially, it is expected that staff will either include a copy of the complete checklist for consideration with a staff report (for large scale developments) or reference the highlights of the checklist within the staff report.

INTERNAL CIRCULATION TO:
Inspection Services, Works and Utilities, Energy Management Committee
LEGAL/STATUTORY AUTHORITY:
N/A
LEGAL/STATUTORY PROCEDURAL REQUIREMENTS:
N/A
EXISTING POLICY:
N/A
FINANCIAL/BUDGETARY CONSIDERATIONS:
N/A
PERSONNEL IMPLICATIONS:
N/A
TECHNICAL REQUIREMENTS:

N/A

EXTERNAL AGENCY/PUBLIC COMMENTS:

Urban Development Institute – Kelowna Chapter: No concerns.

ALTERNATE RECOMMENDATION:

N/A

Subm	itted by:	
Ryan		
Devel	opment Planner	
Appro	ved for Inclusion:	
Cc:	Don Degen, Signe B	agh

Kelowna Sustainability Checklist



The City of Kelowna endeavours to...

Sustain the Environment. Encourage development and land use changes that will not compromise the ability of future generations to meet their needs and to enjoy the quality of life that we experience today;

Encourage Mixed Use Developments. Encourage a mix of residential, employment, institutional, and recreational uses within individual buildings or larger development projects, and an increased share of development going to the Downtown or other designated Urban Centres, in order to provide greater access by proximity, thereby reducing transportation-related pollution and urban sprawl;

Develop a Compact Urban Form. Develop a more compact urban form that maximizes the use of existing infrastructure, increasing densities through development, conversion, and redevelopment within existing areas. particularly in the Downtown or other designated Urban Centres, and by providing for higher densities within future urban areas. Encourage development to proceed in a logical, sequential order, concurrently with availability of required urban services.

Sustainable Development. Continue to promote social well being and quality of life by including and implementing policies and actions that are environmentally sound and sustainable for development and redevelopment within the City.

Instructions

All applicants for Official Community Plan Amendment, Zoning Bylaw Amendment, Development Permit Subdivision. Variance Development Permit requested to complete the Smart Growth Checklist. Please review and complete the checklist and if necessary, provide a supplementary letter explaining, in more detail, how the proposed development incorporates the listed or other Smart Growth principles. **Applicants** are encouraged to provide as much information as possible to assist City Council, staff and advisory bodies (i.e. Advisory Planning Commission, Community Heritage Commission etc.) in their review of development proposals. The relevance of the Checklist questions will depend on the nature and scope of the project.

Mission Statement

Kelowna's Official Community Plan seeks to maintain or enhance our unique environment and lifestyle on behalf of the people of Kelowna through the provision of dynamic and accountable leadership and effective municipal services (Kelowna 2020).

Development is an essential part of the City's future: it creates the urban environment as well as influences social wellbeing, economic strength and environmental conditions. This survey is designed to ensure that Council, staff and the development community work in partnership to achieve the long term goals and objectives of the community.

The purpose of this Sustainability Checklist is to assist Council, staff and developers to create the most sustainable project

possible. The questions in the Checklist are meant to advance the following sustainability objectives.

- 1. Efficient use of public funds: mixed use, higher density areas make better use of existing infrastructure, reduce demands for new roads and services and reduce long term infrastructure maintenance costs;
- 2. **Protect open space and natural areas:** concentrating growth within existing urban areas minimizes land consumption, protects natural features, preserves wildlife corridors and minimizes environmental impacts;
- 3. **Placemaking:** people want to live in neighbourhoods that are lively and attractive urban live/work/play environments, with adequate amenities, and which respect the existing neighbourhood and community character, design and historic features;
- 4. **Accessibility:** compact mixed use development reduces commuting distances, and increases transportation choice (e.g., walking, cycling, and public transit);
- 5. **Housing choice:** expanding housing choices for different age groups, income and household sizes allows people to remain in the same neighbourhood through different life stages and discourages out-migration due to affordability issues;
- 6. Shorter commutes and more transportation choices: locating jobs in regionally-accessible hubs served by transit and with housing nearby allows people to work closer to home or live closer to work, reducing dependence on the automobile and aids in improving air quality

Economic Sustainability

A healthy economy relates to the quality of life for the citizens in our community. The City would like to maintain a balance between the number of jobs and the resident labour force,

and ensure those jobs are accessible by transit.	Yes/No
Important considerations also include support for local business, job creation, infrastructure efficiency and consideration for and reduction of resource consumption.	If yes, describe:
1. Comment on direct employment created by this project during construction:	
a) number and duration of jobs (full time, part time)	Environmental Sustainability
b) types of jobs (e.g., construction, design)	Community and building design can significantly influence resource consumption (e.g., energy, water) and waste generation (e.g., vehicle emissions, solid waste) in the
c) income range of jobs	local community. New development should be designed to avoid or minimize negative impacts on the existing natural environment
2. Will the project provide direct employment (i.e., on the development site) after the project	and maximize the benefits of the City's existing infrastructure.
is completed?	Built Environment
Yes/No	4. Comment on the following site planning
If so, comment on employment provided by sector, type, income range, and the number of jobs that are full-time and part-time.	components: 4.1 Walking distance to:
	a) bus stop (in kms)

3. Are there any other components of economic sustainability (e.g., suitability of units for home based businesses, green products, local job creation) advanced by this proposal?

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If yes, describe:	
Environmental Sustainability	,
Community and building design can significantly influence resource consumption (e.g., energy, water) and waste generation (e.g., vehicle emissions, solid waste) in the	n

g infrastructure. **Environment**

- ment on the following site planning nents:
- alking distance to:
- stop (in kms)

b) trails, greenways, cycling routes (in kms)

4.2 Is development located in the Downtown or in one of the City's designated Urban Centres (see Kelowna Official Community Plan Map 6.2) and on lands less than 30% slope (Map 7.1 of Kelowna's Official Community Plan).

Yes/No

4.3 Provides additional support for alternative transportation use (check all that apply):	4.6 Will site remediation be part of the development process?
	Yes/Not Applicable
☐ variance received to provide less parking than required;	If yes, briefly outline proposed remediation approach:
bicycle storage;	approacii.
change rooms (end of trip facilities);	
designated parking for car share spaces, high occupancy vehicles (e.g., carpool, vanpool, smart cars, hybrids);	
incorporates Transportation Demand Management (TDM) ¹ measures;	
other, describe:	4.7 Mitigation of light pollution (e.g., spill lighting and off-site glare avoided)
	Yes/No
	If yes, describe:
¹ Note: for TDM information see http://www.kelowna.ca/CM/Page377.aspx.	
4.4 On site storm water management (e.g., green roof treatment, permeable paving, onsite detention/retention drainage, fish or aquatic habitat protection)	4.8 Does the project provide enhanced waste diversion facilities (e.g., on-site recycling for cardboard,/bottles cans/other recyclables, or
Yes/No	on-site composting)
If yes, describe (note ratio of impervious to	Yes/No
pervious surfaces):	If yes, describe:
4.5 Floodplain mitigation (note: this is a requirement in floodplain areas)	

Yes/No

5. Comment on inclusion of the following water efficiency techniques: 5.1 Water efficient landscaping (e.g., drought resistant and/or native plantings, use of nonpotable or reclaimed water for irrigation, high efficiency irrigation, use of rainwater cisterns for irrigation and Xeriscape Landscaping) Yes/No	6.1 Energy efficiency of proposed structures (e.g. building location responding to daily sun/shade patterns, high performance envelopes, passive solar gain, solar shading, natural ventilation, ground heating/cooling, high efficiency fixtures, consideration of heat island effect ²). Yes/No
If yes, describe:	If yes, describe:
5.2 Onsite wastewater treatment? Yes/No	² For more information on the heat island effect, visit http://eetd.lbl.gov/HeatIsland/.
If yes, describe:	6.2 Use of renewable energy alternatives (e.g., geothermal, solar, off-grid, FortisBC Green Power).
	Yes/No
	If yes, describe:
5.3 Water use reduction measures (e.g., low consumption fixtures, storm water irrigation)	
Yes/No	6.3 Chlorofluocarbons (CFC) reduction in
If yes, describe:	heating, ventilating, and air conditioning (HVAC) equipment, Power Smart technology?
	Yes/No
	If yes, describe:
6. Comment on inclusion of the following methods to reduce energy use and improve air quality:	

7. Comment on the following methods for sustainable use and reuse of materials and resources:	7.4 Is LEED ⁴ certification being pursued for this project?
	Yes/No
7.1 Management of construction wastes (e.g. reuse of existing buildings or building materials during construction and/or demolition, remade/recycled content).	If yes, what level of certification are you aiming for:
Yes/No	
If yes, describe:	
	³ For more information on environmentally sensitive or recycled construction materials, see http://www.ecosmart.ca/ . ⁴ For more information on LEED (Leadership in
	energy and Environmental
7.2 Use of environmentally sensitive or	Design) certification, see
recycled construction materials (e.g., high volume fly-ash concrete, non-toxic finishing	http://www.usgbc.org/LEED/LEED_main.asp. Or
materials ³).	http://www.cagbc.org/index.php
Yes/No	7.5 Has the applicant considered PowerSense Residential/Commercial energy saving
If yes, describe:	initiatives offered by FortisBC:
	Yes/No
	If yes, which initiatives are you pursuing:
7.3 Enhanced durability of construction materials (e.g. wall systems, roof materials)	
Yes/No	
	http://www.fortisbc.com/powersense/about.htm
If yes, describe:	

7.6 Has the applicant considered rebate and energy efficiency programs offered by Terasen Gas:	9. Does the street layout and design encourage walking and cycling, while providing for personal and commercial vehicle use?		
Yes/No	Yes/No		
If yes, which initiatives are you pursuing?	If yes, describe:		
http://www.terasengas.com/Residential/default.htm	10. If new streets or lanes are constructed as part of the development, are they designed to		
8. Comment on inclusion of the following suggested strategies to improve indoor environmental quality:	reduce storm water runoff (e.g., narrow right of ways, permeable shoulders)? Yes/No		
8.1 Improved air quality through low emitting materials (e.g., paint, carpets) and natural ventilation with windows that open.	If yes, describe:		
Yes/No			
If yes, describe:			
	11. If the property is adjacent to existing park space, open space, paths or trails, is a visual and pedestrian connection provided?		
	Yes/No		
	If yes, describe:		
8.2 Design attempts to maximize exposure to natural light (i.e. through building orientation).			
Yes/No			

12. Do any of the City of Kelowna's policies or regulations currently prevent you from implementing identified Sustainability	h) Other Amenities ? Yes/No		
initiatives?			
Yes/No	List:		
If yes, describe:			
13. Is the proposed residential, commercial or institutional development within a ten-minute walk (approximately 800 meters) from:	Natural Environment		
a) neighbourhood store or other shopping opportunities	14. Comment on green-space and natural environment.		
Yes/No	14.1 Is proposed development in an		
b) school	environmental development permit area (eg. Steep Slope, Hazardous Conditions, Wildland Fire Natural Environment)?		
Yes/No	Fire, Natural Environment)?		
c) community services (e.g., library, community centre)	Yes/No If yes, describe:		
•	ii yes, describe.		
Yes/No			
d) child care facility			
Yes/No			
e) health services (e.g., hospital, doctor's office)	14.2 Was an environmental assessment of the property completed prior to the commence-		
Yes/No	ment of design work:		
f) parks or trails	Yes/No		
Yes/No	14.3 Are any of the following environmental features present on the property:		
g) bus stop	a) Significant trees Yes/No/Unknown		
Yes/No	b) Natural grassland areas Yes/No/Unknown		

- c) Riparian areas Yes/No/Unknown
 d) Wildlife (red or blue listed species)
 Yes/No/Unknown
 e) Wildlife habitat Yes/No/Unknown
 f) Wildlife corridors Yes/No/Unknown
 g) Has the preservation and/or enhancement of the areas listed above been incorporated in the proposed project? Yes/No/Unknown
 14.4 Provision of green-space and trees on site (includes retention of existing trees).
 Yes/No
 If yes, note and show calculations for:
 h) Amount of green-space in square feet:
- j) Number and percentage of existing trees to be retained on site:
- k) Number of trees removed:
- l) Number of trees to be planted:
- 14.5 Are there any significant existing environmental features that are maintained or enhanced on the site (e.g., tree and/or shrub preservation or daylighting of a stream)?

Yes/No

f yes, d	escribe	e:		

Social Sustainability

The primary purpose of a city is to provide for the well being of its residents, labour force and visitors. New development should contribute to the health and safety of Kelowna, as well as enhance the range of housing, service and recreational options to meet diverse community needs. The design of new development should respect local heritage and provide attractive spaces that encourage social interaction.

- 15. Anticipated price range of units (note price range for both commercial and residential units, if applicable). Average price per square foot: _____
- 16. Does the proposed development include non-market housing units (affordable housing)?

Yes/No

If yes: a) number of units:
b) as a percentage of total units:
c) form of tenure (e.g., rental, co-op, owner):
d) targeted population, if applicable (e.g. seniors, family):

Yes/No

CPTED,see:

0design%20guidelines.pdf

⁵For more info on Crime Prevention Through Environmental Design Principles

 $http://www.kelowna.ca/citypage/docs/pdfs/develop\\ment\%\ 20 services/crime\%\ 20 prevention\%\ 20 thru\%\ 2$

17. Does the project include rental housing units?	20. Does the project incorporate features to enhance adaptability and accessibility within	
Yes/No	the proposed housing units for people with disabilities (e.g. wider door openings, reinforced walls in bathrooms for future	
If yes:	installation of grab bars, ground-oriented entrances)?	
Number of units:	Yes/No	
Expected average rent for a one bedroom unit \$	If yes, describe:	
Expected average rent for a two bedroom unit		
\$		
18. If the project includes low or medium density residential, are the housing units ground-oriented (i.e. does a door have direct		
outdoor access to a street or courtyard as opposed to a corridor)?	21. Actions proposed to mitigate noise from external sources such as traffic, railways, industry, commercial uses, patrons, etc.	
Yes/No	industry, commercial uses, patrons, etc.	
If	Yes/No	
If yes:	If yes, describe:	
Number of units:		
As a percentage of total units		
19. Does the project design incorporate Crime Prevention Through Environmental Design (CPTED ⁵) principles.		

22. Does the project enhance local identity and character (e.g., through architectural style,	designation of a heritage building?
landscaping, colours, project name)?	Yes/No
Yes/No	27. Are public amenities provided with the development (check all that apply):
If yes, describe:	☐ Public art
	Child care facility
	Walking / Bike Trails
	Other, describe:
23. Describe the existing neighbourhood character (i.e., historical, single family, mixed use etc.) and how the proposed development will enhance the adjacent neighbourhood.	
	28. Does the development incorporate space for public gathering and activities (e.g., courtyards, communal gardens, play areas)?
	Yes/No
24. Does the project contain a mix of uses (e.g. residential, commercial) or introduce a new community serving land use type to the neighbourhood (e.g., new housing form, commercial service)?	If yes, describe:
Yes/No	
25. Does the project contribute to heritage revitalization through the reuse, relocation or rehabilitation of an existing structure or feature?	29. Does the proposed development enhance the streetscape? Yes/No
reature:	1 65/140
Yes/No	If yes, describe:
If yes, describe:	
	30. Are private amenities provided with the development (e.g., meeting rooms, outdoor space)?

26. Does the project involve provincial

Yes/No	OTHER
If yes, describe:	33. Have you engaged any Green Building or LEED experienced consultants in association with this development proposal?
	If yes, please list and briefly describe their experience:
31. Are residents, community stakeholders, and end-user groups involved in the planning and design process?	
Yes/No	
If yes, describe (e.g., public meetings, residents association meetings, workshops, etc.):	
	VERIFICATION BY THE APPLICANT
32. Is there something unique or innovative about your project that has not been addressed in this checklist (e.g., creation of a new zone, other sustainable features, contributions to the community)?	34. I hereby certify that the information provided on this Kelowna Sustainability Checklist is accurate and truthful to the best of my knowledge and release the contents for use by the City of Kelowna: Applicant Name:
Yes/No	Owner Name:
If yes, describe:	Title:
	Signature:
	Date:
	35. I have read and considered the Kelowna Sustainability Checklist and have elected not to complete it at this time.
	(Check Here if Applicable)