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# Develop with Care

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## Checklists

# B

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Environmental Guidelines for Urban and Rural Land Development in British Columbia

March 2006

## Appendix B

### CHECKLISTS

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## Appendix B: Checklists

### B.1 CHECKLIST FOR COMMUNITY PLAN DEVELOPMENT

Good environmental planning at the community level can take time and money—but the investment will pay for itself in a better quality of life, savings in infrastructure and liability costs, and payback from increased property values.

This checklist is intended for use by local governments to help determine if environmental issues are being addressed in the Official Community Plan (OCP) and other strategic planning processes. This is one part of a triple-bottom line approach that will also look at economic and social interests when developing and updating community plans. Some of these questions demand complex answers, and are included to encourage local governments and others to address these issues during the development of community plans.

Although this checklist is specifically aimed at official community plan development, many of these questions will also apply when developing watershed plans, local area plans, or comprehensive development plans.

In this checklist:

- ♦ **‘Environmentally valuable resources’** include all features, places, and species whose presence enhances the biodiversity of the area. Environmentally valuable resources range in size from single trees to extensive landscape features, and can include rare or common habitats, plants, and animals.
- ♦ **‘Hazard lands’** include areas subject to erosion, flooding, wildfires, and wildlife conflicts, as well as contaminated sites and other areas deemed to have settlement constraints.

Checks in the ‘yes’ and the ‘not applicable’ (N/A) columns indicate that environmental guidelines have been considered. Checks in the ‘no’ and ‘unknown’ columns suggest that further action or explanations are needed.



**B.1.1 Community Plan Checklist**

For detailed information, refer to **Section 2: Community Planning**.

Community Plan checklist for local government	Yes	No	Unkn-own	N/A	Comments		
<b>Inventory and Mapping ( Section 2.4.1)</b>							
1. Is there detailed (and accurate) inventory information about: <ul style="list-style-type: none"> <li>♦ terrestrial and aquatic ecosystems, including riparian areas</li> <li>♦ species at risk and other wildlife (including Recovery Plans for species at risk where applicable)</li> <li>♦ protected areas (federal, provincial, regional, or municipal)</li> <li>♦ areas with conservation covenants or other protection agreements</li> <li>♦ habitat reservoirs/refuges (Section 2.5.1)</li> <li>♦ wildlife corridors (for large and small species)</li> <li>♦ ground water and hydrology</li> <li>♦ hazard lands</li> </ul>	<input type="checkbox"/>	Include information in OCP (except selected species at risk and cultural information—see Section 2.4.1)	<input type="checkbox"/>	Seek out additional data (see <b>Appendices C and D</b> ), establish development permit/information areas where more detailed information may be required, or establish a plan to gather missing information	<input type="checkbox"/>	<input type="checkbox"/>	
2. Does the OCP include maps at a broader (regional or multi-regional) scale, so that environmental values in adjacent areas (outside of the plan area) and cross-border wildlife corridors can be identified?	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	Expand the area mapped
3. Does the OCP include maps at a sufficiently detailed scale to identify sites with high environmental values (where development needs to occur in a sensitive manner)?	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	Revise scale or include additional maps



Community Plan checklist for local government	Yes	No	Unkn-own	N/A	Comments
Scope of OCP					
4. Do the OCP goals address a full spectrum of environmental concerns, including: <ul style="list-style-type: none"> <li>◆ protection of wildlife species and their habitats</li> <li>◆ protection and enhancement of wildlife corridors</li> <li>◆ control of invasive species (plants and animals)</li> <li>◆ protection of ecological integrity (ecosystem features and functions)</li> <li>◆ protection of air quality</li> <li>◆ protection of surface and ground water quality and quantity</li> <li>◆ integrated rainwater management and reduction of impervious surfaces</li> <li>◆ promotion of 'Smart Growth' principles</li> <li>◆ energy and water efficiency</li> <li>◆ waste reduction</li> <li>◆ avoidance of hazards (wildfire, wildlife conflicts, areas subject to flooding and erosion, etc.)</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/> Adjust goals accordingly	<input type="checkbox"/>	<input type="checkbox"/>	
5. Has consideration been given to the impacts of development on or from neighbouring communities (e.g., shared aquifers or watercourses) or on/from lands outside of local government control (e.g., forest lands, agricultural land reserve, Crown lands)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Has consideration been given to long-term and cumulative impacts of development (e.g., total impervious surfaces, ecosystem fragmentation)? (Section 2.4.3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Does the OCP establish measurable targets for environmental goals and identify how these will be monitored?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



Community Plan checklist for local government	Yes	No	Unkn-own	N/A	Comments
<b>Smart Growth (Section 2.4.4)</b>					
8. Does the OCP define an urban containment boundary?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
a. Does the infrastructure plan encourage development within the urban containment boundary?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Does the OCP provide incentives that encourage infill and re-development in preference to greenfield development?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Does the OCP encourage high-density, mixed-use developments near existing infrastructure?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Does the OCP encourage and enable alternative development standards (e.g., narrower roads, cluster developments) as appropriate?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Protection and restoration of species and ecosystems (Section 2.5)</b>					
12. Have habitat reservoirs and refuges been either designated as parkland or placed in a development permit area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Have adequate buffers between proposed development areas and environmentally valuable resources been identified? (See Section 4.5.2 and Table 4.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
14. Does the OCP promote the protection of environmentally valuable resources <b>during</b> development?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15. Does the OCP promote the protection of environmentally valuable resources <b>after</b> development?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



Community Plan checklist for local government	Yes	No	Unkn-own	N/A	Comments
16. Is there a management plan for urban wildlife?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17. Is there a plan for the protection and enhancement of urban forests?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
18. Are plans in place to manage invasive species and restore degraded ecosystems?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Development permit areas (DPAs)</b>					
19. Have environmental DPAs been established for areas where there are known (or probable) high environmental values?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20. Are the DPAs large enough to include adequate buffers? (See Section 4.5.2 and Table 4.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21. Will DPA guidelines effectively manage development and provide adequate protection for environmentally valuable resources and hazard lands?	<input type="checkbox"/>	<input type="checkbox"/> Identify appropriate guidelines	<input type="checkbox"/>	<input type="checkbox"/>	
22. Do existing zoning bylaws, DPAs and other bylaws conform to the OCP?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Water use and management</b>					
23. Does the OCP promote integrated rainwater management, and the reduction of impervious surfaces?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
24. Is there sufficient water supply for all users (including fish and other wildlife) if the community is built out to the maximum under designated zoning?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
25. Have areas with high risk of erosion and sedimentation been identified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
a. Are there timing restrictions and other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



Community Plan checklist for local government	Yes	No	Unkn-own	N/A	Comments
measures in place to prevent site clearing during periods with high erosion potential?					
<b>Air quality and climate change (Section 2.7)</b>					
26. Does the OCP address air quality issues? a. Does the OCP promote alternatives to driving? b. Are there programs to provide alternatives to backyard burning (e.g. composting of yard waste)?	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
27. Does the OCP address ways to manage climate-related risks (Section 2.7.3)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28. Are there incentives for green buildings and neighbourhoods that meet LEED standards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Hazard management (Section 2.8)</b>					
29. Does the OCP preclude development in areas subject to flooding or tsunamis?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
30. Does the OCP preclude development in areas subject to rockfalls, slumping, erosion, and earthquake hazard?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31. Does the OCP preclude development in areas subject to wildfire hazard? a. Are there regulations and policies in place to reduce fire risk in these areas, for example using fire-proof building materials?	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
32. Does the OCP preclude development in areas of potential wildlife conflicts? a. Are there regulations and policies in place to reduce risk in these areas, for example using appropriate garbage management?	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	



Community Plan checklist for local government	Yes	No	Unkn-own	N/A	Comments
<b>Waste management</b>					
33. Does the community have a liquid waste management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34. Does the community have a solid waste management plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Maintaining of the intent of the OCP</b>					
35. Are there limitations on how or how often the OCP can be revised (to prevent a gradual erosion of its intent over time)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



## B.2 CHECKLISTS FOR SITE DEVELOPMENT

This section contains two checklists: the first one intended for local governments to use when reviewing a site development proposal, to help determine if environmental guidelines are being followed. The second checklist is intended for use by developers, to help them confirm that their proposal has addressed environmental issues.

In these checklists:

- ♦ **‘Environmentally valuable resources’** include all features, places, and species whose presence enhances the biodiversity of the area. Environmentally valuable resources range in size from small patches to extensive landscape features, and can include rare or common habitats, plants, and animals.
- ♦ **Hazard lands** include areas subject to erosion, flooding, wildfires, wildlife conflicts, contaminated sites and other areas deemed to have development constraints.

Checks in the ‘yes’ and ‘not applicable’ (N/A) columns indicate that environmental guidelines have been considered. Checks in the ‘no’ and ‘unknown’ columns suggest that further action or explanations are needed.

For detailed information see [Section 3: Site Development and Management](#), [Section 4: Environmentally Valuable Resources](#), [Appendix D: Site Inventory and Conservation Evaluation](#), and [Appendix E: Protection and Conservation Tools](#).



**B.2.1 Site Checklist for Local Governments**

Site development checklist for local governments	Yes	No	Unkn-own	N/A	Comments
<b>Local government incentives and requirements for site development</b>					
1. Is this site subject to development permit guidelines? a) Will development permit guidelines provide adequate protection to environmentally valuable resources?	<input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/>  <input type="checkbox"/> Modify DPA guidelines for future applications	<input type="checkbox"/>  <input type="checkbox"/>	<input type="checkbox"/>  <input type="checkbox"/>	
2. Are there incentives in place to encourage environmental protection and restoration (e.g., density bonusing, faster approvals)?	<input type="checkbox"/> Discuss these with developer	<input type="checkbox"/> Identify and enable appropriate incentives	<input type="checkbox"/>	<input type="checkbox"/>	
3. Are there policies in place to encourage amenity bonuses (e.g., contributions to park acquisition funds) or other forms of mitigation for habitat loss?	<input type="checkbox"/>	<input type="checkbox"/> Identify and enable appropriate policies	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Availability of information for decision-making (Sections 3.4.1 and 4.5.1, Appendix D)</b>					
4. Does the Official Community Plan (or other available data/information) identify environmentally valuable resources and hazard lands on or near the development site?	<input type="checkbox"/> Ensure developer has this information	<input type="checkbox"/> Inventory and identify in future plans	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Site inventory and conservation evaluation (Appendix D)</b>					
5. Has a preliminary site survey (bio-inventory) been conducted and provided to the local government? (see <a href="#">Appendix D</a> )	<input type="checkbox"/>	<input type="checkbox"/> Request a preliminary site survey before any further proposal review	<input type="checkbox"/>	<input type="checkbox"/>	

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Site development checklist for local governments	Yes	No	Unknown	N/A	Comments
6. Does the preliminary site survey (bio-inventory) identify environmentally valuable resources on or near (within 100 m) the proposed development site?	<input type="checkbox"/> See question 7	<input type="checkbox"/> Ensure the proposal follows Section 3 guidelines	<input type="checkbox"/>	<input type="checkbox"/>	
7. Are the environmentally valuable resources and appropriate buffer area set aside as 'no-development' areas?	<input type="checkbox"/> Ensure the proposal follows Section 3 and Section 4 guidelines	<input type="checkbox"/> Require a detailed site inventory and conservation evaluation before any further proposal review. Ensure proposal review includes questions 21-25 below	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Proposal design features</b>					
8. Does the proposal identify potential hazards such as: ♦ Terrain stability (earthquakes, erosion) ♦ Areas subject to flooding or tsunamis ♦ Wildfires ♦ Wildlife conflicts ♦ Contaminated sites a. If yes, are these hazards avoided or adequately addressed?	<input type="checkbox"/>       <input type="checkbox"/>	<input type="checkbox"/> Discuss with developer       <input type="checkbox"/>	<input type="checkbox"/>       <input type="checkbox"/>	<input type="checkbox"/>       <input type="checkbox"/>	
9. If the site is adjacent to a protected area, have protected area staff been consulted?	<input type="checkbox"/>	<input type="checkbox"/> Ensure staff are contacted			
10. Will the development avoid or mitigate off-site impacts (e.g., modified hydrology, impacts on neighbouring environmentally valuable resources, potential for wildlife conflicts)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Site development checklist for local governments	Yes	No	Unkn-own	N/A	Comments
11. Have Smart Growth options and alternative development standards been considered?	<input type="checkbox"/>	<input type="checkbox"/> Discuss options with developer	<input type="checkbox"/>	<input type="checkbox"/>	
12. Have alternative transportation options been considered? (Section 3.7.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Does the design meet LEED standards, or otherwise promote reduced use of energy, water and waste (during and after development)?	<input type="checkbox"/>	<input type="checkbox"/> Review LEED standards	<input type="checkbox"/>	<input type="checkbox"/>	
14. Are buildings sited to avoid air quality concerns? (Section 3.7.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15. Will rainwater be managed on-site? (Section 3.6.1)	<input type="checkbox"/>	<input type="checkbox"/> Discuss options with developer	<input type="checkbox"/>	<input type="checkbox"/>	
16. Are measures in place to protect surface and ground water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17. Have construction timing windows been identified?	<input type="checkbox"/>	<input type="checkbox"/> Refer to Ministry of Environment timing windows	<input type="checkbox"/>	<input type="checkbox"/>	
18. Do septic systems meet or exceed provincial and local governments' requirements? (Section 3.9.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
19. Have wildlife travel corridors been retained (and enhanced)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
20. Are there restoration plans for degraded habitats?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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Site development checklist for local governments	Yes	No	Unknown	N/A	Comments
<b>Planning and design stage: environmentally valuable resources present (Section 4.5.2)</b>					
21. Has a detailed site inventory and conservation evaluation of environmentally valuable resources been prepared by an appropriately qualified professional, and provided to the local government?	<input type="checkbox"/>	<input type="checkbox"/> Request a detailed site inventory and conservation evaluation before further proposal review	<input type="checkbox"/>	<input type="checkbox"/>	
22. Does the proposal follow the appropriately qualified professional recommendations?	<input type="checkbox"/>	<input type="checkbox"/> Reject the proposal or request revisions	<input type="checkbox"/>	<input type="checkbox"/>	
23. Have any environmentally valuable resources and their buffer areas (including streams and streamside protection and enhancement areas) been identified and protected from development impacts?	<input type="checkbox"/>	<input type="checkbox"/> Discuss options with developer	<input type="checkbox"/>	<input type="checkbox"/>	
24. Is there a watercourse on site, and is it fish-bearing or flow into fish-bearing waters?	<input type="checkbox"/> A Riparian Areas Assessment may be required (see Section 4.5.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
25. Do trails and roads avoid environmentally valuable resources?	<input type="checkbox"/>	<input type="checkbox"/> Review layout/road alignment options	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Construction stage (Section 3 and Section 4.5.2)</b>					
26. Have all permits and approvals been obtained prior to construction (e.g., for instream works)?	<input type="checkbox"/>	<input type="checkbox"/> Assist developer to identify needed permits	<input type="checkbox"/>	<input type="checkbox"/>	

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Site development checklist for local governments	Yes	No	Unkn-own	N/A	Comments
27. Has an environmental monitor been hired to oversee the construction phase?	<input type="checkbox"/>	<input type="checkbox"/> Recommend developer hire one	<input type="checkbox"/>	<input type="checkbox"/>	
28. Are measures in place to protect environmentally valuable resources <b>during</b> construction (including additional [timing] buffers and construction timing windows)?	<input type="checkbox"/>	<input type="checkbox"/> Work with developer to identify protection measures	<input type="checkbox"/>	<input type="checkbox"/>	
29. Is water quality being protected and erosion/sedimentation being prevented?	<input type="checkbox"/>	<input type="checkbox"/> Ensure an erosion and sedimentation plan is in place	<input type="checkbox"/>	<input type="checkbox"/>	
30. Are post development impacts being monitored for future action as needed?	<input type="checkbox"/>	<input type="checkbox"/> Have developer commit to extended monitoring	<input type="checkbox"/>	<input type="checkbox"/>	



**B.2.2 Site Checklist for Developers**

Developers should consider the list below before designing the development, during construction, and post-development to confirm that they are following environmental guidelines. Checks in the ‘yes’ and ‘not applicable’ (N/A) columns imply that environmental guidelines are being followed. Checks in the ‘no’ and ‘unknown’ columns indicate that further action or explanations are needed.

Developers are encouraged to include a copy of this checklist with their development application.

For detailed information see **Section 3: Site Development and Management**, **Section 4: Environmentally Valuable Resources**, and **Appendix D: Site Inventory and Conservation Evaluation**.

Site development checklist for developers	Yes	No	Unkn own	N/A	Comments
<b>Inventory (Section 3.4.1 and Appendix D)</b>					
1. Has a preliminary site survey (bio-inventory) been completed and submitted to the local government? (See Appendix D)	<input type="checkbox"/>	<input type="checkbox"/> Conduct preliminary site survey	<input type="checkbox"/>	<input type="checkbox"/>	
2. Does the preliminary site survey (bio-inventory) identify environmentally valuable resources on or near (within 100 m of) the development site?	<input type="checkbox"/> See question 3	<input type="checkbox"/> Follow Section 3 guidelines and see question 5	<input type="checkbox"/>	<input type="checkbox"/>	
3. Are the environmentally valuable resources set aside as ‘no-development’ areas (see Appendix D)?	<input type="checkbox"/> Follow Section 3 and Section 4 guidelines	<input type="checkbox"/> Complete a detailed site inventory and conservation evaluation & see questions 13–18.	<input type="checkbox"/>	<input type="checkbox"/>	

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Site development checklist for developers	Yes	No	Unkn own	N/A	Comments
<b>Site concept and design (Sections 3.4 and 4.5.2)</b>					
4. Does the proposal identify AND avoid (or address) potential hazards such as: <ul style="list-style-type: none"> <li>◆ Terrain stability (earthquakes, erosion)</li> <li>◆ Areas subject to flooding or tsunamis</li> <li>◆ Wildfires</li> <li>◆ Wildlife conflicts</li> <li>◆ Contaminated sites</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/> Identify and address concerns	<input type="checkbox"/>	<input type="checkbox"/>	
5. Have Smart Growth options, alternative development standards, and LEED standards been considered and discussed with the local government?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Will rainwater be managed on-site? (Section 3.6.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Are buildings sited to avoid air quality concerns? (Section 3.7.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Do septic systems meet or exceed provincial and local governments' requirements? (Section 3.9.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Have wildlife corridors been retained to link to nearby habitat reservoirs and refuges (off-site and on-site)? (Sections 2.5.2 & 4.5.2)	<input type="checkbox"/>	<input type="checkbox"/> Work with local government staff to retain wildlife corridors between the development site and these habitats.	<input type="checkbox"/>	<input type="checkbox"/>	
10. Have roads been designed to minimize disruption to wildlife movements?	<input type="checkbox"/>	<input type="checkbox"/> Redesign the development or use mitigation techniques	<input type="checkbox"/>	<input type="checkbox"/>	

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Site development checklist for developers	Yes	No	Unkn own	N/A	Comments
11. If the site is adjacent to a protected area, have protected area staff been consulted and any impacts mitigated?	<input type="checkbox"/>	<input type="checkbox"/> Consult staff	<input type="checkbox"/>	<input type="checkbox"/>	
12. Will the development avoid or mitigate off-site impacts (e.g., modified hydrology, impacts on neighbouring environmentally sensitive areas, potential for wildlife conflicts)?	<input type="checkbox"/>	<input type="checkbox"/> Redesign the development or use mitigation techniques	<input type="checkbox"/>	<input type="checkbox"/>	
13. Have opportunities for restoration been identified and incorporated into the plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Site concept and design: environmentally valuable resources present (Section 4.5.2)</b>					
14. Has a detailed site inventory and conservation evaluation been completed by an appropriately qualified professional and submitted to the local government (see Appendix D)?	<input type="checkbox"/> Follow Section 4 guidelines and advice from report	<input type="checkbox"/> Complete a detailed site inventory and conservation evaluation	<input type="checkbox"/>	<input type="checkbox"/>	
15. Have buffers around the environmentally valuable resources been identified? a. Do proposed buffers meet or exceed the Ministry guidelines? (Tables 4.2 to 4.4)	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
16. Does the proposal follow the appropriately qualified professionals' recommendations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17. Will the tentative site design retain the environmentally valuable resources?	<input type="checkbox"/>	<input type="checkbox"/> Use appropriately qualified professionals to identify suitable measures	<input type="checkbox"/>	<input type="checkbox"/>	

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Site development checklist for developers	Yes	No	Unkn own	N/A	Comments
18. Have shorelines and streambanks been protected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Development and construction (Section 3.5 and following)</b>					
19. Has an on-site monitor been hired where needed, and given authority to halt work if necessary?	<input type="checkbox"/>	<input type="checkbox"/> Hire monitor	<input type="checkbox"/>	<input type="checkbox"/>	
20. Have the permits and approvals required for construction been identified and obtained (e.g., for instream works)?	<input type="checkbox"/>	<input type="checkbox"/> Acquire needed permits	<input type="checkbox"/>	<input type="checkbox"/>	
21. Is construction work scheduled ONLY during recommended timing windows?	<input type="checkbox"/>	<input type="checkbox"/> Identify and adhere to timing windows	<input type="checkbox"/>	<input type="checkbox"/>	
22. Are measures in place to protect surface and ground water? (See Section 3.6.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23. Is there an erosion and sediment control plan in place and being followed? (Section 3.6.3)	<input type="checkbox"/>	<input type="checkbox"/> Address erosion and sedimentation issues before start-up	<input type="checkbox"/>	<input type="checkbox"/>	
24. Is air quality being protected during construction? (Section 3.7.1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
25. Are there measures in place to prevent site contamination and spills? (Sections 3.8.3 and 3.8.4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
26. Have steps been taken to reduce construction waste? (Section 3.9.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
27. Are measures in place to protect environmentally valuable resources during construction (e.g., fencing, additional timing buffers, timing windows)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28. Is water quality being protected and	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



Site development checklist for developers	Yes	No	Unkn own	N/A	Comments
erosion/sedimentation being prevented?					
29. Is restoration of degraded habitats being undertaken?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
30. Are trails located outside of environmentally valuable resources and their buffers?	<input type="checkbox"/>	<input type="checkbox"/> Work with an appropriately qualified professional to design trails	<input type="checkbox"/>	<input type="checkbox"/>	
<b>Post development</b>					
31. Are natural landscaping techniques being followed? (Section 3.5.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
32. Have any potentially invasive species been eliminated from landscaping choices?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
33. Has use of pesticides been minimized or avoided? (Section 3.8.5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34. Have wildlife attractants been minimized? (Section 3.8.2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
35. Are post development impacts being monitored for future action as needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



**B.3 CHECKLIST FOR CLEARING ADJACENT TO PROTECTED AREA**

The following checklist was developed by B.C. Parks for consideration where logging takes place adjacent to parks and protected areas. The same considerations apply wherever land is being cleared for development adjacent to a protected area.

<b>COMPANY NAME:</b>		<b>YEAR:</b>					
<b>FDP:</b>		<b>ADJACENT TO:</b>					
N/A: Not Applicable R: Requested/Required Y: Yes (Concerns) C: Completed							
<b>BLOCK NUMBER:</b>							
<b>CUTTING YEAR:</b>							
<b>STEPS</b>	Strongly advise company about the benefits of legal surveys & consequences of trespass						
	Request base maps: block & road layouts (pesticides/herbicide prescriptions?)						
	Stress importance of windfirm boundaries. Request any windthrow hazard assessments.						
	Request any terrain stability tests						
	Stress that no danger trees are to be cut down in Protected Area (PA). WCB buffer must be outside PA						
	Stress no yarding from within the boundaries of the PA						
	Confirm if any activities (surveying etc.) will require access to the PA. If so LoP required.						
	Any water quality concerns?						
	Any visual quality concerns?						
	Any concerns regarding noise from logging operations impacting park visitors?						
	Any concerns regarding altered access to the Protected Area?						
	Any wildlife concerns?						
	Request timely deactivation of roads and stream crossings in nearby riparian areas.						
	Request an on-site visit with an appropriate representative from the company						
	Suggest annual review of forest development adjacent to PA's or as issues arise						
	CC response letter to appropriate Park staff, MOF District Timber Officer & MOE HPO						
	During site visit note concerns and document (photograph?) accordingly						
	During site visit take bearing photos of cut- block/park boundary interface						
	Complete follow up letter (Thank you etc, concerns about site visit, etc.)						
	Carry out a post-harvest inspection. Check boundaries, blowdowns etc.						
Follow up letter if any issues are raised from post-harvest inspection							



Questions that may need to be raised:

- ◆ Water Quality: potable water source for public down stream?
- ◆ Noise: Is this a popular place for park visitors (hikers, campers, canoeists etc.) Can they log in off-season? Can they move logging roads away from boundary or use alternatives such as cable logging?
- ◆ Visual Quality: Visual impact for park visitors? Can they leave a buffer or redesign cutting layout?
- ◆ Altered Access to Protected Area: Will their activities alter or improve access into PA? Gates required? Signage required? Road deactivation after harvest?
- ◆ Wildlife: Habitat Fragmentation? Connectivity? Genetic Isolation? Buffer around wildlife trees (raptors)? Fish/Aquatic values? Nesting birds? (Suggest an alternative season?) Adjacent to a deer winter range?
- ◆ Upstream Ecological Integrity? Trees should be retained in the RMZ to maintain large organic woody debris at levels similar to pre-logging condition and to protect water quality and aquatic habitat. Some windfirming treatment may be required as well along streams to protect these values.
- ◆ Use fish presence instead of gradient to classify streams.
- ◆ Best Management Practices as described in the RMA Guidebook should be applied on all waters flowing into the Protected Area.