

Appendix 1a

Values, Objectives, Indicators & Targets Summary Tables

Honeymoon Bay Portion of the Defined Forest Area

June 2011





The following Indicators are applicable to the Honeymoon Bay portion of the DFA only (see Appendix 1c for indicators applicable to the DFA; or Appendix 1b for indicators that are applicable to the Fraser portion of the DFA only).

CCFM Criterion 1: Conservation of Biological Diversity

Conserve biological diversity by maintaining integrity, function, and diversity of living organisms and the complexes of which they are part.

CSA SFM Element 1.1: Ecosystem Diversity

Conserve ecosystem diversity at the stand and landscape level by maintaining the variety of communities and ecosystems that naturally occur in the DFA.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Ecosystem Biodiversity	Conserve Ecosystem diversity at the stand and landscape levels by maintaining the variety of communities and ecosystems that naturally occur in the DFA	Forest Area by type or species composition	CH 1.1.2	Regeneration with 100% ecologically appropriate and native species	Zero	Core Indicator CSA Z809-08 standard	N/A	Operational Planning	GIS

CSA SFM Element 1.2: Species Diversity

Conserve species diversity by ensuring that habitats for the native species found in the DFA are maintained through time, including habitats for known occurrences of species at risk.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Critical habitat features for special interest species	Maintain existing and potential bear dens	Number of bear dens found during field work that are protected	H1-6	Retain 100% 'high value' and 80% 'moderate value' bear dens as rated on the Bear Den Protection Key	10% per 5 year rolling average	District direction	N/A	Operational Planning	Bear Den Protection Key, file review



CSA SFM Element 1.2: Species Diversity

Conserve species diversity by ensuring that habitats for the native species found in the DFA are maintained through time, including habitats for known occurrences of species at risk.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Cedar/ Cypress	Maintain Cedar/ Cypress population within TFL 46 for cultural, ecological and economic purposes	Total Cedar/ Cypress trees planted by species	H1-7	Average Cedar/ Cypress planted is minimum 20% of total trees planted over a 5 year rolling average	Zero	Stocking Standards	N/A	Operational Planning, planting programs	Phoenix database
Native flora and fauna	Maintain natural diversity of native flora and fauna	Percent site occupation of invasive plant species at time of free growing	H1-9	0% for broom, Gorse, Knotweed 10% for thistle, tansy, daisy, St. John's Wort	5%	Forest Stewardship Plan	Forest and Range Practices Act	Operational Planning	Forest Stewardship Plan, inspections by government agencies
Maintain natural diversity of native flora and fauna	Retain a component of hardwoods within the stands	Number of hardwood stems per hectare (sph)	H 1-10	Average number of hardwood sph is minimum of 25, measured on 5 year average	1.25 sph (5%)	Forest Stewardship Plan	Forest and Range Practices Act	Operational Planning	Forest Stewardship Plan, inspections by government agencies

CSA SFM Element 1.3: Genetic Diversity

Conserve genetic diversity by maintaining the variation of genes within species and ensuring that reforestation programs are free of genetically modified organisms

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
-------	-----------	-----------	---	--------	---------------------	----------------------	--------------------	-----------------------------------------	----------------------------

There are currently no indicators that are applicable only to the Honeymoon Bay portion of the DFA, see Appendix 1c for indicators applicable to the DFA



CSA SFM Element 1.4: Protected Areas and Sites of Special Biological and Cultural Significance									
Respect protected areas identified through government processes. Co-operate in broader landscape management related to protected areas and sites of special biological and cultural significance. .Identify sites of special geological, biological, or cultural significance within the DFA, and implement management strategies appropriate to their long-term maintenance.									
Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
There are currently no indicators that are applicable only to the Honeymoon Bay portion of the DFA, see Appendix 1c for indicators applicable to the DFA									

CCFM Criterion 2: Ecosystem Condition and Productivity

Conserve forest ecosystem condition and productivity by maintaining the health, vitality, and rates of biological production.

CSA SFM Element 2.1: Forest Ecosystem Resilience									
Conserve ecosystem resilience by maintaining both ecosystem processes and ecosystem conditions.									
Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Healthy Forests	Minimize impacts due to windthrow	Number of Catastrophic Windthrow Events within Riparian Reserve Zones as a result of harvesting activities	H2-4	Zero	Two	Riparian Management Areas	Forest Practices Code Act , Forest and Range Practices Act, Fisheries Act	Windthrow Hazard Assessment, Operational Plans, Standard Operating Procedures	Incident Investigation Reports, inspections by government agencies
		Percentage of required windthrow treatments that are completed in a timely manner	H2-5	100%	Zero	Riparian Management Areas	Forest Practices Code Act Forest and Range Practices Act	Windthrow Hazard Assessment, Terrain Stability Assessments, Operational Plans	Incident Investigation Reports, inspections by government agencies



CSA SFM Element 2.2: Forest Ecosystem Productivity									
Conserve forest ecosystem productivity and productive capacity by maintaining ecosystem conditions that are capable of supporting naturally occurring species. Reforest promptly and use tree species ecologically suited to the site.									
Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
There are currently no indicators that are applicable only to the Honeymoon Bay portion of the DFA, see Appendix 1c for indicators applicable to the DFA									

CCFM Criterion 3: Conservation of Soil and Water Resources

Conserve soil and water resources by maintaining their quantity and quality in forest ecosystems.

CSA SFM Element 3.1: Soil Quality and Quantity									
Conserve soil resources by maintaining their quantity and quality in forest ecosystems.									
Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Soil	Protection of forest soils	Activities related to restoration of significant erosion hazards resulting from roads	H3-4	Mitigate high erosion hazards on a priority basis	Activities completed as funding is available	Forest Investment Account – Watershed Restoration	Forest Practices Code Act Forest and Range Practices Act	Forest Investment Account funding	Erosion Hazard Risk Ranking, Inspections



CSA SFM Element 3.2: Water Quality and Quantity

Conserve water resources by maintaining water quantity and quality.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Fisheries	Protection of fisheries resources	Management of Fisheries Sensitive Features	H 3-10	Minimum of 20% of the annual FIA budget for TFL 46 to be spent on fisheries related projects	-10% (no restrictions on upper limit)	Forest Investment Account – Watershed Restoration	Forest Practices Code Act , Forest and Range Practices Act, Fisheries Act	Forest Investment Account funding	External communications file
		Number of fish barriers resulting from old road building methods (e.g., steep culverts) addressed as referrals received from outside sources	H 3-11	Fish barriers are addressed where operationally feasible	Zero	Forest Investment Account – Watershed Restoration	Forest Practices Code Act Forest and Range Practices Act	Forest Investment Account funding	External communications file
Water	Protection of water resource	Bridge & Major Culvert repairs	H 3-12	All structures with a high risk of damage to the environment or safety are repaired within the next weather (fisheries) window	Zero	Riparian Management Areas	Forest & Range Practices Act	Operational Planning	Structure Inspections



CCFM Criterion 4: Forest Ecosystem Contributions to Global Ecological Cycles

Maintain forest conditions and management activities that contribute to the health of global ecological cycles

CSA SFM Element 4.1: Carbon Uptake and Storage (cont.)

Maintain the processes that take carbon from the atmosphere and store it in forest ecosystems.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Natural ecological cycles	Minimize negative impacts of harvesting on natural global ecological cycles	Percent of volume harvested converted to long term products (e.g., solid wood) versus short term products (e.g., pulp)	H4-2	80% per year	10%	Public concern	N/A	Modern and dynamic wood processing facilities	Log sales and manufacturing, accounting records

CFM Criterion 5: Economical and Social Benefits

Sustain flows of forest benefits for current and future generations by providing multiple goods and services.

CSA SFM Element 5.1: Timber and Non-Timber Benefits

Manage the forest sustainably to produce an acceptable and feasible mix of timber and non-timber benefits. Evaluate timber and non-timber forest products and forest-based services.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Minor Forest Products	Improve utilization of forest through Minor Forest Products harvesting	Annual volume (cubic metres) of Managed Minor Forest Products harvested (Douglas fir and cedar salvage)	H5-2	Provide opportunities for Minor Forest Products as requested and as available	Zero	Internal policy	Forest Practices Code Act Forest and Range Practices Act	Operational Planning	Scaling records, MOF electronic submissions, inspections by government agencies



CSA SFM Element 5.2: Communities and Sustainability									
Contribute to the sustainability of communities by providing diverse opportunities to derive benefits from forests and by supporting local community economies.									
Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
There are currently no indicators that are applicable only to the Honeymoon Bay portion of the DFA, see Appendix 1c for indicators applicable to the DFA									

CFM Criterion 6: Society's Responsibilities

Society's responsibility for sustainable forest management requires that fair, equitable, and effective forest management decisions are made.

CSA SFM Element 6.1: Aboriginal and Treaty Rights									
Recognize and respect Aboriginal and Treaty Rights. Understand and comply with current legal requirements related to Aboriginal title and rights, and treaty rights									
Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
There are currently no indicators that are applicable only to the Honeymoon Bay portion of the DFA, see Appendix 1c for indicators applicable to the DFA									



CSA SFM Element 6.2: Respect for Aboriginal Forest Values, Knowledge, and Uses									
Respect traditional Aboriginal forest values and uses identified through the Aboriginal input process.									
Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Cultural Cedar	Work with First Nations to identify a current/and or future supply of Cedar and Cypress suitable for traditional use and not cause, as a result of forest activities, the supply to become unavailable	Number of First Nation requests that are responded to for establishing a protocol for identifying a current and/or future supply of Cedar and Cypress trees suitable for traditional use within TFL 46, consistent with the extent of historical use	H6-5	100%	Zero	Forest Stewardship Plan	Forest Practices Code Act Forest and Range Practices Act	On-going communication	Correspondence files



CSA SFM Element 6.2: Respect for Aboriginal Forest Values, Knowledge, and Uses

Respect traditional Aboriginal forest values and uses identified through the Aboriginal input process.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Cultural Cedar	Work with First Nations to identify conserve and manage over the long term a current and future supply of Cedar and other tree species, suitable for traditional use and not cause, as a result of road construction or timber harvesting activities, this supply to become unavailable for their continuing extent of use by an aboriginal people up to the extent of historical use	Identification, mapping and documentation of specific cedar trees and other tree species or small areas containing cedar trees that meet or will meet the size and quality parameters as specified in the Pacheedaht First Nation – Cultural Cedar Conservation Strategy	H6-9	700 trees within 3 years (Dec 31, 2012); 800 trees within 5 years (Dec 31, 2014)	Zero	First Nations Concerns	N/A	On-going communication	First Nations Correspondence files



CSA SFM Element 6.3: Forest Community Well Being and resilience

Encourage, co-operate with, or help to provide opportunities for economic diversity within the community.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
-------	-----------	-----------	---	--------	---------------------	----------------------	--------------------	-----------------------------------------	----------------------------

There are currently no indicators that are applicable only to the Honeymoon Bay portion of the DFA, see Appendix 1c for indicators applicable to the DFA

CSA SFM Element 6.4: Fair and Effective Decision Making

Demonstrate that the SFM public participation process is designed and functioning to the satisfaction of the participants and that there is general public awareness of the process and its progress.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
Informed, fair, inclusive and timely decision making	Public values are incorporated into forest management planning	Number of SIPAG meetings per year to review the Sustainable Forest Management Plan and any issues relevant to forest management within TFL 46	H6-6	Minimum 2 meetings per year	Zero	SIPAG Terms of Reference	N/A	Scheduled meetings	SIPAG meeting minutes

CSA SFM Element 6.5: Information for Decision Making

Provide relevant information and educational opportunities to interested parties to support their involvement in the public participation process, and increase knowledge of ecosystem processes and human interactions with forest ecosystems.

Value	Objective	Indicator	#	Target	Acceptable Variance	Basis for the target	Legal Requirements	Means of Achieving Objective and Target	Monitoring and Measurement
-------	-----------	-----------	---	--------	---------------------	----------------------	--------------------	-----------------------------------------	----------------------------

There are currently no indicators that are applicable only to the Honeymoon Bay portion of the DFA, see Appendix 1c for indicators applicable to the DFA