

<b>FOREST INVESTMENT ACCOUNT LAND BASE INVESTMENT RATIONALE 09/10</b>
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<b>Date:</b>	March 16, 2009
<b>Region:</b>	Southern Interior Forest Region
<b>Management Unit(s):</b>	Okanagan TSA 22 and Westbank First Nation Community Forest License
<b>Licensee Involvement:</b>	Okanagan Innovative Forestry Society on behalf of:
	BC Timber Sales- Okanagan Columbia Business Unit
	Federated Co-operatives Limited
	Gorman Bros. Lumber Ltd.
	Goodeit Bros. Contracting Ltd.
	Louisiana Pacific Canada Ltd.
	Pristine Log & Timber Ltd
	Stella - Jones Canada Inc.
	Selkirk Timber Company
	Tolko Industries Ltd.
	Weyerhaeuser Company Ltd.
	Westbank First Nation Community Forest License Agreement
	Yucwmenlucwu (Caretakers of the Land) LLP

<b>LBIR Lead:</b>	Glen Dick, RPF
<b>Phone Number:</b>	(250) 550-7234
<b>Email Address:</b>	Glen.dick@terrafor.ca

**From:** Crampton, Ray W FOR:EX  
**Sent:** Friday, March 27, 2009 3:46 PM  
**To:** Cormier, Laverne FOR:EX  
**Subject:** Re: Request DM Approval: OK TSA FIA LBIR 2009-2010

Approved.

Good work.

Ray Crampton RPF  
Operations Manager  
Okanagan Shuswap Forest District  
Vernon BC  
(250) 558-1722  
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**From:** Cormier, Laverne FOR:EX  
**To:** Crampton, Ray W FOR:EX  
**Sent:** Fri Mar 27 15:27:24 2009  
**Subject:** Request DM Approval: OK TSA FIA LBIR 2009-2010

Dear Ray:

My review of the OK TSA Land Base Investment Rationale supports your approval of the information sharing conducted by the Okanagan IFPA Society. The OIFS prepares the LBIR on behalf of major forest licencees, BCTS and WFN Community Forest. This LBIR identifies projects that could fall into the litigation area claimed by the Neskonlith and Adams Lake in *HTMQ vs Jules*.

During the pre-assessment, District Liaison staff note that the Land Base Investment Rationale is a budgetary exercise that provides opportunity for FN to be aware of proposed activities on the landbase and provide input to the investment planning process at a strategic level. In the OK TSA, MFR is aware that both the Shuswap Nation and Okanagan Nation, and their respective member bands assert aboriginal interests. Further information sharing and ongoing consultation about operational projects specifically identified in the LBIR is appropriate to ensure that both known and new information about aboriginal interests is appropriately considered in the 2009-2010 Forest Investment Account program.

The Okanagan IFPA Society has shared information about the 2009-10 LBIR in a conscientious and meaningful manner. This past year the board of directors has welcomed both the ONA and SNCT to join the decision making team and technical advisory team to help in guiding forest investment strategies in the OK TSA. The OIFS has shared information, solicited input and participation, as well as presented information to the OK Communication Forum. The OKFS has lobbied the crown to see changes to FIA project eligibility in keeping with FN input. The LBIR proposes a number of administrative projects and commits to further information sharing on operational projects consistent with district direction.

Attached for your consideration is an updated Routecard Checklist for your review.  
<<1\_a OK TSA FIA LBIR 2009-2010 (2).doc>>

**Please Reply with your approval, or request for further information.** Many thanks.

Glen Dick RPF  
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## **Section 1 Overview of the FIA Land Base Investment Program (LBIP) and the Land Base Investment Rationale (LBIR)**

The Forest Investment Account (FIA) is a forest-sector investment model, led by government, established to deliver the province's forest investment in an accountable, efficient manner. Fiat's purpose is to assist government to develop a globally recognized, sustainable managed forest industry. Investment dollars have been directed to activities on public land – enhanced forestry, watershed restoration and resource inventories – and marketing and research that support sustainable forest management and increased allowable annual cuts.

The goals of the FIA include:

- Actively fostering sustainable forest management;
- Improving the public forest asset base;
- Promoting greater returns from the utilization of public timber.

The Fiat's Land Base Investment Program (LBIP) provides funding to eligible recipients to undertake work to improve the forest asset base and support sustainable forest management practices on Crown land through:

- higher level strategic decision-making and planning;
- increased timber volume and value;
- increased site productivity;
- restored terrestrial, aquatic and riparian environments;
- better decision-making information and tools; and,
- Infrastructure that protects public safety and mitigates environmental hazards.

The Land Base Investment Rationale (LBIR) provides context and focus for FIA land base investments. The LBIR provides an overview of the management unit, e.g., Timber Supply Area or Tree Farm License issues that need to be addressed over the short term (3-5 years) for the achievement of the desired future condition of the forests within it (e.g. desirable age class and seral stage distribution, desirable habitat distribution). It also provides ministries with documentation that links the LBIP activity expenditures at the forest and stand level with resource objectives at the management unit and strategic level, and LBIP objectives at the provincial level.

For 2009/10, the LBIR structure is primarily aimed at addressing these issues as well as improving efficiency and effectiveness of the program and increasing collaboration across management units:

- LBIR structure may be configured into a logical unit to describe issues and activities, for example, where there are multiple Forest Districts (FDPs) within one management unit (MU), for example, a TSA; and
- This LBIR will include West Bank First Nation Community Forests.

The management unit included in this LBIR is TSA 22 in the Okanagan and Community Forest Licenses.

## **Section 2 Resource Objectives**

This document presents a summary of the Okanagan TSA and the Westbank First Nations Community Forest License Agreement Area 2009-2010 Land base Investment Rationale.

*The key objectives for the Okanagan TSA) covered by this LBIR are:*

- 1. To conserve biological diversity through sustainable forest management*
- 2. To maintain and enhance forest ecosystem conditions and timber productivity through sound forest management*
- 3. To manage for and conserve soil and water resources*
- 4. To understand and manage for forest ecosystem contributions to global ecological cycles*
- 5. To generate multiple benefits to society*
- 6. To understand and accept the role of the Management Unit's contribution by accepting society's responsibility for sustainable development.*

*The key objectives for the Community Forest Licenses in the Okanagan are covered by this LBIR are:*

- 1. To conserve biological diversity through sustainable forest management*

The objective of this document is to demonstrate that the investment schedules submitted by the Society and licensees are linked to resource management goals for the Okanagan TSA. The objectives are derived from:

- Chief Forester's determination for Timber Supply Review, December 5<sup>th</sup>, 2005 (TSR3);
- DRAFT Silviculture 1 Strategy Inputs (November 30<sup>th</sup>, 2005), Forsite Consulting Ltd.;
- Regional Executive Director's IFPA Uplift Request Determination December 5<sup>th</sup>, 2005;
- OIFS Forestry Plan, March 2005;
- SFMP, March 2004;
- Type 2 Incremental Silviculture Analysis, March 2002;
- Kamloops Regional Resource Management Plan, September 2001; and
- Okanagan-Shuswap Land and Resource Management Plan, January 2001.

In addition, Gorman's, Weyerhaeuser and Tolko have developed their own SFMP for their operations in the Okanagan TSA.

- Gorman's/Weyerhaeuser/ Tolko/ BCTS Okanagan Sustainable Forest Management Plan, **January 2009.**

Input to the LBIR has been provided by the Ministry of Forests and Range, Ministry of Environment, and the Integrated Land Management Bureau through their participation in the Okanagan Shuswap District Steering Committee and input to the Okanagan Innovative Forestry Society.

### Section 3 – Key Issues

Objective	Issue	Proposed By
<p>1. Conservation of biological diversity</p>	<p>1a) Restore Fish Passage with blocked upstream migration at the following creek crossings            Bear FSR 45.75 km            Bear FSR 47.75 km            Sylvia FSR 0.5km (Inonoaklin Cr.)</p> <p>Gorge-Anstey FSR 45, 48, 62 km (3 structures)            North Fork FSR 54, 59, 62 km (3 structures)            1100 FSR 42 km Seymour River</p> <p>Postill Lake FSR (Moore Lake Trib)            South Winnefred FSR (Parameter Lake outlet)            Pennask            Myra FSR 70.3 km            OK Falls FSR 55 km,            Sterling FSR 68 km</p>	<p>BCTS            BCTS            BCTS</p> <p>LP, Stella-Jones            LP            LP</p> <p>Tolko            Tolko            Westbank First Nation CFL            Weyerhaeuser            Weyerhaeuser            Weyerhaeuser</p>
	<p>1b) Fish Passage Assessments            1c) Fish Distribution info consolidation for TSA 22            1d) Fisheries data collection            1e) Inventory Williamson’s Sapsucker habitat            1f) Mule deer winter range habitat study            1g) Pine marten habitat research            1h) Mountain caribou habitat research            1i) Deer tracking in fertilization plots</p>	<p>BCTS, LP, TOLKO, WFN,            Weyerhaeuser            BCTS, Tolko,            Weyerhaeuser            OIFS            OIFS            OIFS/LP            Gorman’s, Tolko</p>
	<p>1j) Analysis of Species at Risk Act            1k) Biodiversity – Watershed Wild Inventory            1l) Screech Owl inventory Eagle River            1m) Blue Heron inventory            1n) Advance Regen Understory Inventories MPB areas            1o) Plant species at risk and ecosystems at risk report</p>	<p>Tolko, BCTS            OIFS / ONA            LP            Tolko            Weyerhaeuser</p>
	<p>1p) Wildlife Inventories (Mtn. Goat, Perry River)            1q) Wildlife Inventories (ungulates and other species)            1r) Moose winter range improvement</p>	<p>BCTS</p> <p>LP            Tolko, Weyerhaeuser, MOE            Tolko / MOE</p>
	<p>Maintenance and enhancement of forest ecosystem condition and productivity</p>	<p>2a) Backlog NSR surveys            2b) Backlog brushing            2c) Reforestation of MPB area, wildfire areas and backlog areas (surveys, seedlings, planting, stand tend and knockdown)</p>
<p>2d) Prelim. Sampling of branch diameters for Fdi and Sx</p>		<p>Weyerhaeuser</p>
<p>2e) PEM / SIBEC</p>		<p>OIFS</p>
<p>2f) TEM describing Ecosystems in the field</p>		<p>YUCWMENLZCW</p>
<p>2g) Timber supply analysis – maintain uplift (ie Caribou)</p>		<p>LP</p>
<p>2h) Growth and Yield Monitoring – monitoring objectives</p>		<p>Tolko</p>
<p>2i) Growth and Yield Monitoring – SI adjustments</p>		<p>OIFS</p>
<p>2j) Growth and Yield Monitoring – update monitoring plan</p>		<p>OIFS</p>
<p>2k) Max Density Spacing</p>		<p>Weyerhaeuser</p>
<p>2l) Impeded Stands File review &amp; surveys</p>		<p>OIFS</p>
<p>2m) Impeded stands prescriptions &amp; brushing</p>		<p>OIFS, Tolko</p>
<p>2n) Fire ecosystem restoration – 2006 Ashnola / Border Lake</p>		<p>Gorman’s</p>
<p>2o) Fertilization trials</p>	<p>OIFS</p>	
<p>2p) OAF Ingress model analysis</p>	<p>OIFS</p>	
<p>2q) Rehabilitation of forested stands impacted by MPB – surveys</p>	<p>Tolko</p>	
<p>2r) Rehabilitation of forested stands impacted by MPB – site treatment</p>	<p>Tolko</p>	
<p>2s) Rehabilitation of forested stands impacted by MPB - planting</p>	<p>Tolko</p>	
<p>2t) Roads, landings &amp; trails Assessments</p>	<p>OIFS</p>	

Objective	Issue	Proposed By
	2u) Terrestrial Ecosystem Mapping (TEM) WFN CFL 2v) Fertilization Broadcast aerial and manual 2w) Ecosystem restoration – 5 year plan / FN interests	WFN OIFS ONA
3. Conservation of soil and water resources	3a) Upper Penticton Creek hydrology study – stream flow monitoring, snowline monitoring, water quantity/quality, 3b) Border Lake Snow Surveys 3c) H60 line–Identify area contributing most to peak flows 3d) Stable road structures – Road deactivation Vernon Creek CWS, Meighan Creek CWS, Penticton Creek CWS 3e) Stable non status road structures – Environmental maintenance Meighan Community Watershed 3f) Stable road structures – Environmental maintenance 13 km and 55 km North Fork FSR 3g) Stable road structures – landslide and gulley rehab - Griffin FSR 3h) Stable road structures – landslide and gulley rehab -Mabel 3i) Terrain stability assessments 3j) Water – snowline monitoring, weather stations 3k) Water – enhanced riparian reserves & channel monitoring 3l) Hydrological Study Fisheries Watersheds	Weyerhaeuser, Gorman's  Gorman's Weyerhaeuser  Tolko, Weyerhaeuser  Tolko  LP  Tolko  Tolko  LP Tolko Gorman's  LP
4. Forest ecosystem contributions to global and ecological cycles	4a) Operational adjustment factors 4b) Forests Health aerial surveys 4c) Forest Health ground surveys 4d) Forests Health trapping, baiting, fall and burn 4e) Forest Health monitoring	OIFS, Stella-Jones BCTS / MFR BCTS / MFR BCTS / MFR BCTS / MFR
5. Multiple benefits to society	5a) Traditional use study Tahaetkun Mountain (Similkameen/Penticton) 5b) Recreation sites and trails 5c) Fencing project to keep mud boggers out of reservoir at Thirsk Lake 5d) Archaeological Overview Assessments – trail inventory study in Okanagan/Spallumcheen/Upper Nicola – asserted traditional territories. 5e) Archaeological Inventory Study of area adjacent to, or on Tahaetkun Mountain. 5f) Traditional use study, Hidden, Kingfisher, Trinity FDU's	OIFS  BCTS Tolko Gorman's  OIFS  OIFS  YUCWMENLZCW
6. Accepting society's responsibility for sustainable development	6a) Complete 2010-2011 LBIR 6b) Sustainable Forest Management planning 6c) SFMP – Public Advisory Group 6d) Forest Education (Provincial LBIP) 6e) SOSIPs Strategic plan for Invasive Plants- Identify and treatment	OIFS BCTS, Gorman's, Tolko, Weyco BCTS, Gorman's, Tolko, Weyco General Gorman's

**Section 4 – Eligible LBIP Activities, Anticipated Benefits and Information Sharing/Consultation**

Objective	Eligible Activities	Issue	Supporting Key Documents (Strategy and Section)	Anticipated Benefits	For Projects that span multiple years: Was work done in the last fiscal year? Yes, No, N/A	For Projects that span multiple years: If continuing, provide summary of expenditures to-date and estimated future costs and time to complete	For Projects that span multiple years: Has information sharing / consultation taken place? Yes (include FIRS project #), No, N/A	Information sharing/Consultation Requirement. Indicate level as directed by District (may be informed by an existing consultation matrix (e.g., N/A, inform/notification, consultation, deep consultation
1	Restoration and Rehabilitation- Aquatic-Culvert Designs and Culvert Replacements	1a) Restore fish passage to stream reaches where upstream migration has been impeded by development at the following creeks: <b>BCTS:</b> Bear FSR 45.75 km Bear FSR 47.75 km Sylvia FSR 0.5 km(Inonoaklin Cr) <b>LP</b> Gorge FSR 45, 48 km North Fork FSR 54, 59, 62km 1100 FSR 42 km Seymour R. <b>LP STELLA-JONES:</b> Gorge FSR 62km <b>TOLKO:</b> Postill Lake FSR (Moore Lake Trib.) South Winnefred FSR Parmateer Lake outlet), <b>WFNCFL:</b> Pennask Plateau <b>WEYERHAEUSER:</b> Myra FSR 70.3 km OK Falls FSR 55 km, Sterling FSR 68 km	SFMP, Appendix 4: pages 113-114	Genetic diversity is maintained and upstream fish passage is restored.	No	2007-08: \$ 55,000 2008-09: \$486,000 2009-10 \$400,000	N/A	Bear 47.75 km & Sylvia 0.5 km Consultation with locations and site plans  All others Information and Notification

Objective	Eligible Activities	Issue	Supporting Key Documents (Strategy and Section)	Anticipated Benefits	For Projects that span multiple years: Was work done in the last fiscal year? Yes, No, N/A	For Projects that span multiple years: If continuing, provide summary of expenditures to-date and estimated future costs and time to complete	For Projects that span multiple years: Has information sharing / consultation taken place? Yes (include FIRS project #), No, N/A	Information sharing/Consultation Requirement. Indicate level as directed by District (may be informed by an existing consultation matrix )e.g., N/A, inform/notification, consultation, deep consultation
1	Restoration and Rehabilitation- Aquatic - Fish Passage	1b) Complete Fish Passage Assessments to determine the priority ranking and feasibility of removing, replacing or modifying culverts to restore fish passage to upstream habitats	SFMP Appendix 4 pages 113-114	Fish barriers are identified and scheduled for replacement or removal.	N/A	2009-10 45,000	N/A	Information and Notification
1	Information Gathering and Management-	1c) Information about fish distribution across TSA 22 is not consolidated in one location for the benefit of licensees and government. Data generated by licensees is either not forwarded to government or government is not posting all data it receives. Mapping standards also conflict, i.e. government seems to track point observations while industry seems to track stream reaches.	SFM: Appendix 4 pages 123-124	Known fish distribution data is consolidated in one location and user friendly maps are available on a government website for all interested parties to view.		n/a		Notification for 2009-10

Objective	Eligible Activities	Issue	Supporting Key Documents (Strategy and Section)	Anticipated Benefits	For Projects that span multiple years: Was work done in the last fiscal year? Yes, No, N/A	For Projects that span multiple years: If continuing, provide summary of expenditures to-date and estimated future costs and time to complete	For Projects that span multiple years: Has information sharing / consultation taken place? Yes (include FIRS project #), No, N/A	Information sharing/Consultation Requirement. Indicate level as directed by District (may be informed by an existing consultation matrix )e.g., N/A, inform/notification, consultation, deep consultation
1	Resource Inventories - Fish and Fish Habitat	1d) Fisheries data collection (1i from 2008-09)	FP 3.2.4	Determine fish populations and habitat status in selected watersheds.	Yes	\$50,000	N/A	Information & Notification
1	Information Gathering and Management-Sample Plan and census/ inventory of Williamson's Sapsucker (WISA) in low to moderate quality habitats	1e) Williamson's Sapsucker is listed in COSEWIC. Work done in 2006/07 with multi-recipients successfully mapped the breeding / non-breeding season habitat attributes and population levels however; more work is required to determine if WISA occupies or uses moderate or low value breeding habitat (aspen). Previous work ignored possibility that the birds use less than ideal habitat (1b from 2007-08).	SFMP Appendix 4 pages 113-114	Help to understand if WISA uses alternate habitat and whether alternative management regimes for WISA are feasible.	No		N/A	Information & Notification
1	Forest Dynamics and Decision Support - Wildlife and Wildlife Habitat Modelling	1f) Mule deer winter range research (1j from 2008-09)	SFMP 9.0	Continuation of current project. Lessen current constraints on industry. In IFPA determination OIFS assumptions were felt to	Yes	09/10 \$30,000	2007-08: #4633005	Information & Notification

Objective	Eligible Activities	Issue	Supporting Key Documents (Strategy and Section)	Anticipated Benefits	For Projects that span multiple years: Was work done in the last fiscal year? Yes, No, N/A	For Projects that span multiple years: If continuing, provide summary of expenditures to-date and estimated future costs and time to complete	For Projects that span multiple years: Has information sharing / consultation taken place? Yes (include FIRS project #), No, N/A	Information sharing/Consultation Requirement. Indicate level as directed by District (may be informed by an existing consultation matrix )e.g., N/A, inform/notification, consultation, deep consultation
				underestimate true constraint. RM then acknowledged the completed sensitivity analyses of higher management constraints have minimal short term impact. RM concluded DWR was not sufficiently modelled, but that it would not impact short term harvest.				
1	Forest Dynamics and Decision Support - Wildlife and Wildlife Habitat Modelling	1g) Pine marten habitat research (1k from 2008-09)	SFMP 9.0	Determine requirements for pine marten. Continuation of current project. Lessen current constraints on Industry.	Yes	\$60,000 Annually	2007-08: #4633004	Notification and Information through extension
1	Forest Dynamics and Decision Support - Wildlife and Wildlife Habitat Modelling	1h) Mountain caribou habitat research (11 from 2008-09)	SFMP 9.0	Determine requirements for mountain caribou. Continuation of current project. Lessen current constraints on Industry. The results of this research will affect access to short term timber supply. In IFPA analysis, RM concerned that no specific modelling considerations were made, but accepted information as modelled.	Yes	\$85,000	2007-08: #4633006	Notification and Information through extension

Objective	Eligible Activities	Issue	Supporting Key Documents (Strategy and Section)	Anticipated Benefits	For Projects that span multiple years: Was work done in the last fiscal year? Yes, No, N/A	For Projects that span multiple years: If continuing, provide summary of expenditures to-date and estimated future costs and time to complete	For Projects that span multiple years: Has information sharing / consultation taken place? Yes (include FIRS project #), No, N/A	Information sharing/Consultation Requirement. Indicate level as directed by District (may be informed by an existing consultation matrix )e.g., N/A, inform/notification, consultation, deep consultation
1	Forest Dynamics and Decision Support - Wildlife and Wildlife Habitat Modelling	1i) Deer Tracking in fertilization project (1m from 2008-09)	SFMP9.0	The intent is to determine whether fertilization for non timber objectives affects the movement of mule deer in identified winter range areas. Additionally, studies will investigate wildlife diversity in a mosaic of Lodgepole pine forest cover types. This mosaic is defined by post spacing stand densities and fertilization levels.	No	\$20,000	2007-08: #4633004 2008-09: #4776004	Information & Notification
1	Information Gathering and Management - SARA Initiatives	1j) Species at Risk Act (1p from 2008-09)	WSFMP	Address study needs of SARA initiatives in south Okanagan.	Yes	\$15,000	2007-08: #4778015 2007-08: #4929007 #4936015	Information & Notification
1	Information Gathering and Management – Watershed level Planning - Watershed Fish Based Sustainability Planning	1k) Watershed wild baseline data	SFMP	Baseline Watershed Wild data	No	\$10,000	-N/A	Information & Notification

Objective	Eligible Activities	Issue	Supporting Key Documents (Strategy and Section)	Anticipated Benefits	For Projects that span multiple years: Was work done in the last fiscal year? Yes, No, N/A	For Projects that span multiple years: If continuing, provide summary of expenditures to-date and estimated future costs and time to complete	For Projects that span multiple years: Has information sharing / consultation taken place? Yes (include FIRS project #), No, N/A	Information sharing/Consultation Requirement. Indicate level as directed by District (may be informed by an existing consultation matrix )e.g., N/A, inform/notification, consultation, deep consultation
1	Information Gathering and Management-Sample Plan and census/ Screech Owl inventory	1l) Screech owl is listed in COSEWIC. (1t from 2008-09)	SFMP Appendix 4 pages 113-114	Help to understand if Screech Owl uses alternate habitat and whether alternative management regimes for Screech Owl are feasible.	No	2009-10: \$10,000	N/A	Information and Notification
1	Information Gathering and Management-Sample Plan and census/ Screech Owl inventory	1m) Blue Heron is listed in COSEWIC. (1t from 2008-09)	SFMP Appendix 4 pages 113-114	Inventory of Blue Heron presence and habitat uses	No	2009-10: \$10,000	N/A	Information and Notification
1	Information Gathering and Management – Advance regeneration in understory, inventories of MPB areas	1n) Identification of stands that have acceptable stocking of species other than Lodgepole pine. (1v from 2008-09)	Silviculture Type 1 and Type 2 strategies	Stand stocking with alternate species in pine stands affected by MPB	No	\$ 50,000	N/A	Information and Notification
1	Strategic Resource planning – Developing Management unit Strategies - SARA	1o) Report is required to gather information and identify information gaps for plant species at risk and ecosystems at risk. (1w from 2008-09)	WSFMP	Information gathered will be tentatively included in the SAR database enhancement project in 2009/2010	Yes	\$20,000	2008-09 #4929008	Information and Notification

Objective	Eligible Activities	Issue	Supporting Key Documents (Strategy and Section)	Anticipated Benefits	For Projects that span multiple years: Was work done in the last fiscal year? Yes, No, N/A	For Projects that span multiple years: If continuing, provide summary of expenditures to-date and estimated future costs and time to complete	For Projects that span multiple years: Has information sharing / consultation taken place? Yes (include FIRS project #), No, N/A	Information sharing/Consultation Requirement. Indicate level as directed by District (may be informed by an existing consultation matrix )e.g., N/A, inform/notification, consultation, deep consultation
1	Strategic Resource planning – Wildlife Inventories	1p) Mtn. Goat habitat inventory & mapping – Perry R, Anstey R. Eagle R, Seymour R, Ratchford Cr.	OSLRMP-Wildlife	Inventory and mapping will provide improved presence and abundance data.	No	\$20,000	New Project	Information & Notification
1	Strategic Resource planning – Wildlife Inventories	1q) Wildlife inventories (ungulate and other) . Ungulate inventory from Lumby to Cherryville, moose in 8-23/8-10, Bighorns in Shorts Creek	OSLRMP-Wildlife	Inventory will provide improved presence and abundance data.	No	\$40,000	New Project	Information & Notification
1	Strategic Resource planning – Mtn Goat study	1r) Study the potential for moose winter range improvements in the upper Shuswap floodplain	OSLRMP-Wildlife		No	N/A	New Project	Information & Notification
2	Stand Establishment and Treatment-Backlog Reforestation Surveys	2a) Backlog Silviculture surveys & areas affected by MPB and areas burned by 2003 wildfires are required to locate silviculture opportunities and to maintain stand inventory data (2a from 2008-09).	SFMP: Appendix 4 page 125	Backlog areas are identified and scheduled for treatment.	N/A	Past: \$100,000 Future: \$70,000	N/A	Information and Notification
2	Stand Establishment and Treatment- Current Fire and Pest Reforestation-Site preparation	2b) Backlog brushing and discretionary NSR to facilitate reforestation (2b from 2008-09).	SFM: Appendix 4 pages 115	Backlog and discretionary areas are brushed.	N/A	Future: \$100,000	N/A	Information and Notification

Objective	Eligible Activities	Issue	Supporting Key Documents (Strategy and Section)	Anticipated Benefits	For Projects that span multiple years: Was work done in the last fiscal year? Yes, No, N/A	For Projects that span multiple years: If continuing, provide summary of expenditures to-date and estimated future costs and time to complete	For Projects that span multiple years: Has information sharing / consultation taken place? Yes (include FIRS project #), No, N/A	Information sharing/Consultation Requirement. Indicate level as directed by District (may be informed by an existing consultation matrix )e.g., N/A, inform/notification, consultation, deep consultation
2	Stand Establishment and Treatment-Current Fire and Pest Reforestation	2c) Reforestation of MPB area, wildfire areas and backlog areas (surveys, seedlings, planting, stand tend and knockdown)	SFMP: Appendix 4 page 115	Discretionary areas are identified and scheduled for treatment.	N/A		N/A	Information and Notification
2	Information Gathering and Management - Developing information on branch dynamics for Fdi and Sx	2d) Preliminary sampling is required for Fdi and Sx to determine branch dynamics for potential forest products	SFMP Appendix 4 page 115	Determine branch dynamics and its implications for forest products	No		N/A	Information and Notification
2	Predictive Ecosystem Mapping / SIBEC	2e) PEM/SIBEC (2n from 2008-09)	SFMP 5.0	Underlying ecological data for basis of future analysis. SIBEC data collection to meet applicable standards. PEM wetbelt and dry belt analysis.	Yes	Past: \$60,000 Future: \$50,000	N/A	Information & Notification
2	Terrestrial Ecosystem Mapping	2f) TEM describing ecosystems in the field	SFMP 5.0	TEM field data collection	No	\$20,000	N/A	Information & Notification

Objective	Eligible Activities	Issue	Supporting Key Documents (Strategy and Section)	Anticipated Benefits	For Projects that span multiple years: Was work done in the last fiscal year? Yes, No, N/A	For Projects that span multiple years: If continuing, provide summary of expenditures to-date and estimated future costs and time to complete	For Projects that span multiple years: Has information sharing / consultation taken place? Yes (include FIRS project #), No, N/A	Information sharing/Consultation Requirement. Indicate level as directed by District (may be informed by an existing consultation matrix )e.g., N/A, inform/notification, consultation, deep consultation
2	Timber Supply Analysis	2g) Timber supply analysis (2o from 2008-09)	SFMP 5.0	Maintain IFPA uplift of 332,200 m3 per year. Caribou analysis	Yes	\$5,000 in 2008 \$50,000 in 2010	N/A	Information & Notification
2	Growth and Yield	2h) Growth and Yield Monitoring (2s from 2008-09)	FP 3.2.2	Development of monitoring objectives to track and confirm forest growth and yield in the TSA.	No	\$50,000 Annually	N/A	Information & Notification
2	Growth and Yield	2i) Growth and Yield Monitoring (2t from 2008-09)	TSR3, IFPA Dec 05	Accepted SI adjustments for both wet and dry belt. Identified concern for lack of sampling in ESSF, but acknowledged this posed insignificant short-term risk. Continue modelling efforts and ground sampling to improve site index estimates.	No	08/09 \$ 50,000, 09/10 \$ 50,000, 10/11 \$ 50,000	N/A	Information & Notification
2	Growth and Yield	2j) Growth and Yield Monitoring (2u from 2008-09)	TSR3, IFPA Dec 05 p.37	Update monitoring plan to ensure inventory sampling and site productivity estimates result in expected growth and yield projections, including stands in high elevation / selection zones	No	Past: \$50,000 Future: \$50,000	N/A	Information & Notification

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2	Reforestation	2k) Max Density Spacing	TSR3	Juvenile spacing to create free growing stands by spacing stands exceeding max density	No		N/A	
2	Stand Treatments for Timber Objectives – Impeded	2l) Impeded stand tending - Impeded File review and surveys	SA5.0	Treat competing vegetation on established stands so free growing can be attained.	No		N/A	Information & Notification
2	Stand Treatments for Timber Objectives – Impeded	2m) Impeded Stands – prescriptions and brushing	SA5.0	Prescriptions and Brushing to create FG stands and spacing to address stands impeded by deciduous vegetation.	Yes		N/A	Information & Notification
2	Stand Treatments to meet Timber Objectives	2n) Fire ecosystem restoration	SA5.0	2006 Ashnola / Border Lake Fire Ecosystem Restoration Plan	N/A	\$75,000/yr for next 5yrs (restoration works), +/- \$30,000 (restoration plan)	N/A	Consultation with locations and maps

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2	Information Gathering and Management -Fertilization trial	2o) Fertilization Trials of non-PI leading stands	WSFMP	Determine height growth response of Sx seedlings to N fertilization at high elevation. Possible reduction in time to green up. Ongoing project - year 4 of 5	Yes	08/09 \$20,000	N/A	Information & Notification
2	Information Gathering and Management -Ingress Study	2p) OAF Ingress model	WSFMP	Develop models to predict species, rates and timing of natural ingress.	Yes	\$20,000	N/A	Information & Notification
2	Stand Treatments to meet Timber Objectives	2q) Rehabilitation of forested stands impacted by MPB – surveys	SA5.0	Surveys of areas impacted by MPB to determine applicable stand treatment to meet timber objectives	New issue	\$100,000/yr	New Project	Information & Notification
2	Stand Treatments to meet Timber Objectives	2r) Rehabilitation of forested stands impacted by MPB – site treatment	SA5.0	Site treatment of areas impacted by MPB to meet timber objectives	New issue	\$500,000/yr	New Project	Information & Notification
2	Stand Treatments to meet Timber Objectives	2s) Rehabilitation of forested stands impacted by MPB – planting	SA5.0	Planting of areas impacted by MPB to meet timber objectives	New issue	\$500,000/yr	New Project	Information & Notification
2	Timber Supply Analysis for IFPAs	2t) Roads, landings & trails	IFPA Dec 05 P. 38	Further investigate/ validate estimates for RTL	No	\$5,000, 1 year	N/A	Information & Notification
2	Terrestrial Ecosystem Mapping	2u) Operational inventory for Ecosystems	WFN Community Forest License Management Plan	Baseline Terrestrial mapping of the WFN community forest License	No	New project \$250,000 over 5 years	New Project	Information & Notification

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2	Incremental Silviculture	2v) Fertilization	Silviculture Type 1 strategy	Fertilization Broadcast Aerial and Manual application	Yes	New project \$500,000 \$1,000,000 annually	New Project	Information & Notification
2	Ecosystem Restoration	2w) Ecosystem Restoration – 5 year plan, FN interests					New Project	Information & Notification
3	Information Gathering and Management-Monitoring-Water Quality/Quantity Monitoring- Upper Penticton Creek Study	3a) Continued support of the Upper Penticton Creek Research Trial Hydrological study - stream flow monitoring, snowline monitoring, water quantity / quality,	SFMP Appendix 4: page 116	Continued support for the Upper Penticton Creek Research Trial will document changes to stream flow regimes and changes, if any, to water quality.	Yes	Ongoing since 1982,	N/A	Information & Notification
3	Information Gathering and Management-Monitoring-Water Quality/Quantity Monitoring	3b) Snow surveys	SFMP Appendix 4: page 116	Border Lake Snow Surveys	N/A	\$15,000	N/A	Information & Notification
3	Information Gathering and Management-Forest Dynamics and Decision Support – Innovative Project	3c) The H60 line is thought to be an inaccurate location for determining the watershed area contributing most to peak flows.	SFMP Appendix 4 pages 126	The area that contributes most to peak flows is identified and mapped.	N/A			Information & Notification

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3	Environmental Maintenance Projects on Non-status Forest Roads	3d) Stable road structures	OSLRMP-Water, WSFMP	Road deactivation/rehabilitation in Vernon Creek CWS (BCTS, Tolko) , Yard Creek Griffinn FSR (Tolko) , Penticton Creek CWS (Weyerhaeuser)	N/A		Yes Meighan Creek 2007-08 #4778016	Information & Notification
3	Environmental Maintenance Projects on Non-status Forest Roads	3e) Stable non status road structures	OSLRMP-Water, WSFMP	Environmental maintenance in Meighan Creek Watershed	N/A		Yes 2007-08 #4778018	Information & Notification
3	Environmental Maintenance Projects on Non-status Forest Roads	3f) Stable road structures (3i from 2008-09)	OSLRMP-Water, WSFMP	Environmental maintenance; Road rehab and bridge removal: 5050 Rd (off 13 km North Fork FSR); 3600 Rd (off 55km North Fork FSR)	No	\$30,000	N/A	Information & Notification
3	Restoration and Rehabilitation, Terrestrial	3g) Stable road structures	OSLRMP-Water, WSFMP	Restoration and rehabilitation, terrestrial, landslide and gulley rehabilitation – Yard Creek Watershed Griffinn FSR	No	2009-2010: \$20,000 Future \$100,000	N/A	Information & Notification
3	Restoration and Rehabilitation, Terrestrial	3h) Stable road structures	OSLRMP-Water, WSFMP	Restoration and rehabilitation, terrestrial, landslide and gulley rehabilitation - Mabel Lake	No	\$17,000	N/A	Information & Notification

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3	Resource Inventories- Terrain Stability Mapping	3i) Identify unstable and potentially unstable terrain features (3j from 2008-09)	OSLRMP- Water	Level D mapping in unmapped drainages. Complete Need Area in Seymour / Ratchford	No	\$20,000, 2 years	N/A	Information & Notification
3	Monitoring Values for SFM - Water Quality/Quantity Monitoring	3j) Water (3l from 2008-09)	OSLRMP - Water	Snowline measurements, weather station interpretation and the continuation of long-term water monitoring projects in community watersheds.	Yes	\$8,000	N/A	Information & Notification
3	Monitoring Values for SFM - Water Quality/Quantity Monitoring	3k) Water (3m from 2008-09)	TSR3 Determination	CF indicated there may be some uncertainty to account for enhanced riparian reserves (S4 and S5 streams), but accepted risk as low.	No	\$20,000	N/A	Information & Notification
3	Monitoring Values for SFM – Hydrological Study Fisheries Watersheds	3l) Water	OSLRMP -Water	Hydrological Risk Assessments/ – Fisheries Sensitive Watersheds – Anstey, Eagle, Seymour LU’s	No	\$30,000	N/A	Information & Notification

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4	Vegetation Resource Inventory	4a) Operational Adjustment Factors (4h from 2008-09)	SFMP 5.0	The Society will continue this analysis for forest cover types with leading species of Cw, Hw, SB and Fd in preparation for TSR 3. Study OAF issue for all stands, if changes to OAF adjustments are to be recognized	Yes	08/09 \$ 60,000	2008/09: # 4948007	Information & Notification
4	Forest health monitoring	4b) Forests Health aerial surveys, (4g from 2008-09)	District Forest Health Plan	The District Staff will undertake forest health aerial surveys	Yes	Approx. 60,000 5070001 or 5070002	N/A	Information & Notification by MOFR
4	Forest health monitoring	4c) Forest Health ground surveys, (4h from 2008-09)	District Forest Health Plan	The District Staff will undertake forest health ground surveys	Yes	Approx. 60,000 5070001 or 5070002	N/A	Information & Notification by MOFR
4	Forest health monitoring	4d) Forests Health trapping, burning, fall and burn (4i from 2008-09)	District Forest Health Plan	The District Staff will undertake forest health fall and burn program	Yes	Approx. 70,000 5070001 or 5070002	N/A	Information & Notification by MOFR
4	Forest health monitoring	4e) Forests Health monitoring and tracking viewer tool	District Forest Health Plan	The District Staff will undertake forest health tracking program	Yes	N?A	N/A	Information & Notification by MOFR

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5	Traditional Use Studies	5a) Cultural Heritage Resources study – Mt Tahaetkun - TUS	TSR3 P.37	Recognized that cultural heritage resources to be excluded from THLB (Mt. Taheatkun , plus arch sites, plus TU areas). Identified a 14,000 m3 downward pressure. Cultural studies - the OIFS and FN together	N/A	Past: \$0 Future: \$75,000	N/A	Information & Notification
5	Infrastructure - Recreation trail maintenance and establishment	5b) Recreation opportunities	OSLRMP - Recreation	Maintenance and establishment of sites and trails for non timber users	Yes	\$10,000	2008-09 #4929003	Share information with locations on maps
5	Infrastructure - Recreation trail maintenance and establishment	5c) Recreation opportunities	OSLRMP - Recreation	Fencing project to keep mud-boggers out of reservoir at Thirsk Lake	N/A	\$7,500	New project	Information & Notification

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5	Information Gathering and Management Component	5d) AOA— trail inventory study in Okanagan/Spallumcheen/Upper Nicola – asserted traditional territories. (5h from 2008-09)	MFR IFPA Uplift Rationale, Jan. 1, 2006, pg 37	Recognize the cultural heritage resources as inputs to an AOA model for the Okanagan TSA.	No	\$75,000	New Project	Information & Notification
5	Information Gathering and Management Component	5e) Archaeological Inventory Study of area adjacent to, or on Tahaetkun Mountain. (5i from 2008-09)	MFR IFPA Uplift Rationale, Jan. 1, 2006, pg 37	Recognize the cultural heritage resources as inputs to an AOA model for the Okanagan TSA.	No	\$75,000	New Project	Information & Notification
5	Information Gathering and Management Component	5f) Traditional Use Study – Hidden, Kingfisher and Trinity FDU's	MFR IFPA Uplift Rationale, Jan. 1, 2006, pg 37	Recognize the cultural heritage resources as inputs to an AOA model for the Okanagan TSA.	No	\$20,000	New Project	Information & Notification
6	Strategic Resource Planning- Land Base Investment Rationale(LBIR)	6a) Complete 2010-2011 LBIR	SFMP Appendix 4 page 116	Provide direction consistent with overall goals.	N/A	2007-08: \$8,000 2008-09: \$9,000 2009-2010: \$9,000	N/A	Information and Notification
6	Strategic Resource Planning- SFM Plan Indicators	6b) New CSA indicators need to be incorporated for 2009-10)	SFMP	New CSA indicators from 2007 are incorporated into SFMP.	Yes	Past: \$30,000 Future: \$30,000	N/A	Information & Notification

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6	Strategic Resource Planning and Facilitation of the Public Advisory Group (PAG) Process	6c) SFMP – Public Advisory Group process requires facilitation to complete 2010 iteration of SFMP Sustainable Forest Management Planning (6d from 2008-09)	SFMP Appendix 4, page 116	PAG process ( to Development of objectives or indicators for a management unit or subset of a management unit –SFM PAG or Indicator Development)	Yes	+/- \$8,000/ year for the next 5 years	N/A	In conjunction with both Weyerhaeuser and Tolko
6	Strategic Resource Planning- forest education	6d) Forest education	SFMP	Public education of forestry issues in the Okanagan TSA.	N/A	Future: \$80,000	N/A	Information & Notification
6	Strategic Resource Planning-Invasive plant identification and treatment	6e) SOSIEPs Strategic plan for invasive plants – identify and treatment	SFMP	Identify invasive plant locations within the Okanagan TSA and examine treatment options for eradication.	N/A	Future: \$20,000	N/A	Information & Notification