

## Cooperative Working Agreement

Between: 100 Mile Lumber, A Division of West Fraser Mills Ltd  
910 Exeter Road  
100 Mile House, British Columbia

And Forest Analysis & Inventory Branch  
Ministry of Forests, Lands & Natural Resource Operations  
727 Fisgard Road  
Victoria, British Columbia

West Fraser Mills Ltd. (WF) will be conducting a Vegetation Resources Inventory (VRI) on Tree Farm Licence 35 (TFL 35) over the next two (2) years. The Forest Analysis & Inventory Branch (FAIB) is also conducting a VRI for the old Kamloops District portion of the Kamloops TSA during the same time frame. WF and the FAIB will work cooperatively to provide a VRI for the area covered by TFL 35. This is a logical decision to prevent duplicate efforts and expenditures by both parties, and to meet the VRI objectives of both the FAIB and WF.

### **Agreement Terms & Conditions:**

WF will lead the VRI project on TFL 35. WF will cooperate with FAIB to satisfy the provincial VRI standards and required deliverables specifically as follows:

1. WF will lead and administer all aspects of the TFL 35 VRI. WF will include and facilitate FAIB inputs on the following project components:
  - a. Preparation of a VRI Project Implementation Plan for Photo Interpretation & Field Calibration.
  - b. Contract administration for project implementation and quality assurance, as per WF inventory contract schedules (FAIB Phase 1 contract Schedule A requirements needs to be incorporated into the WF contract). This includes FAIB attendance of pre-work conferences as well as other functions such as field visits, project QA and discussions on VRI standards when appropriate/required.
  - c. Information sharing on project deliverables and QA outcomes as they become available.

2. WF will provide FAIB with completed project deliverables for TFL 35 by February 17, 2014. These deliverables will include:
  - a. Third party Quality Assured VRI completed to Provincial Standards and accepted through Vegetation Resource Information Management System (VRIMS), loaded through PGDB format.
    - i. WF will complete TFL 35 polygons to a mutually agreed upon TFL 35 boundary. The TFL 35 VRI contract will take into account the lesser detail of polygon delineation in the adjacent TSA area in an effort to facilitate edge mapping. TFL 35 polygon delineations will be made available to the TSA VRI contractor for final polygon matching by the TSA VRI contractor.
    - ii. Polygon attribution will meet current VRI standards.
    - iii. FAIB will be provided electronic copies of air and ground call field data and calibration tile data. WF will retain originals of all work.
    - iv. WF will provide copies of all QA reports.

#### **Data Sharing and Exchange:**

A data exchange agreement between West Fraser and MFLNRO will be established to address sharing of data required to complete the project. Examples would be cruise data, Site index data etc. Both parties agree to use data solely for the purpose of this project, unless the data is already in the public domain. All proprietary data shall be returned to the respective owner and/or destroyed at the end of the project. The final vegetation coverage will not be subject to a data exchange agreement – it will reside on the LRDW and be publicly accessible.

For the execution of the project FAIB will require the stereo imagery, models etc., to be able to properly review deliverables and assist in the project. The stereo imagery is the property of West Fraser Mills Ltd. and will be returned once the attribute estimation phase is completed and approved by the FAIB.

### **Project Schedule:**

The TFL 35 project will be completed over two field seasons, approximately 1.5 years. The general schedule for work is quality assured delineation completed in the fall of 2012 and provided to the TSA VRI contractor for edge mapping. Attribution completed and final quality assured product delivered to FAIB by February 17, 2014.

Vegetation Resources Inventory Project Implementation Plan for Photo Interpretation and Ground Sampling to be signed by WF and FAIB by July 31, 2012.

Delineation of TFL 35 based on nominal 1:10000 aerial images completed, quality assured, accepted by FAIB and delivered to FAIB by December 14, 2012. This allows work to continue through the winter by the TSA VRI contractor doing edge matching between the TSA and TFL information.

Attribution of TFL 35 based on nominal 1:10000 aerial images completed, quality assured, accepted by FAIB and delivered to FAIB by February 17, 2014. Coordination between the TFL and TSA contractor will be required. Edge information will be required to be shared prior to the final attribution product for TFL 35 as the TSA contract is scheduled to be completed Feb 28<sup>th</sup>, 2014.

### **Financial Terms and Schedule by VRI Phases:**

FAIB will provide funds for TFL 35 VRI through the LBIF as budgets permit. FAIB has proposed that the TFL 35 VRI valuation be based upon contractor awarded bids for VRI work on the Kamloops TSA and other comparable TSA's in the south-central interior. This is a total of \$0.60/ha, and equates to a sum total of \$21,934.20 based on a total TFL 35 land base of 36,557 ha. FAIB will be paying approximately 14.28% of the total project value. The total project value by year and the respective FAIB portions are itemized in the following schedule: FAIB will recommend release of funds by PWC as and when TFL 35 VRI information is approved and accepted by FAIB.

VRI Project Phase	Unit Cost/ha (est.)	Total Cost (est.)	Year 1 (2012/2013) Costs (est.)	Year 1 (2012/2013) Costs (est.) FAIB	Year 2 (2013/2014) Costs (est.)	Year 2 (2013/2014) Costs (est.) FAIB
Delineation	\$0.07	\$2,558.99	\$2,558.99	\$365.42	\$0.00	\$0.00
Field Calibration Plan	\$0.04	\$1,462.28	\$1,462.28	\$208.81	\$0.00	\$0.00
Silviculture Information Preparation	\$0.02	\$731.14	\$731.14	\$104.41	\$0.00	\$0.00
Field Calibration	\$2.04	\$74,420.00	\$0.00	\$0.00	\$74,420.00	\$10,627.18
Office Classification	\$1.47	\$53,738.79	\$0.00	\$0.00	\$53,738.79	\$7,673.90
Mapping	\$0.02	\$731.14	\$200.00	\$28.56	\$531.14	\$75.85
Project Management (15%)	\$0.55	\$20,046.35	\$2,500.00	\$357.00	\$17,546.35	\$2,493.07
<b>VRI Projects</b>	<b>\$4.20</b>	<b>\$153,688.69</b>	<b>\$7,452.41</b>	<b>\$1,064.20</b>	<b>\$146,236.28</b>	<b>\$20,870.00</b>
<b>Proportion of Project Costs by Year:</b>			<b>5%</b>		<b>95%</b>	

The FAIB funding component will be administered by PWC through the Land Based Investment Schedule # SOTFL358233. A delivery allowance will be determined by PWC and will be added to the agreed upon amount to account for administrative costs.

  
August 8, 2012

Doug White, Woodlands Manager  
100 Mile Lumber  
A Division of West Fraser Mills Ltd  
100 Mile House, BC

  
August 28, 2012

Pat Martin, Inventory manager  
Forest Analysis & Inventory Branch  
Ministry of Forests, Lands & Natural resource  
Operations