



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area



Mackenzie Sustainable Forest Management Plan

Facilitator Report

March 31, 2009



TESERA SYSTEMS INC.

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March 31, 2009

Dan Szekely, RPF
Planning Forestry Supervisor
Canadian Forest Products Ltd.
Admin Building - Mill Road
Box 310
Mackenzie, BC V0J 2C0

Dear Dan,

Here is the 2008/2009 Facilitator Report for the "Mackenzie SFM Plan Public Advisory Group. This Report is in fulfilment of Contract # FIA08-2773001-01.

This report contains the following:

1. Terms of Reference for the PAG
2. PAG Meetings (schedule of meetings, agendas, sign-in sheets, minutes)
3. Evaluations (sample of evaluation forms, feedback chart, feedback comments)
4. Letters of Invitation
5. Mailing List and Meeting Attendance
6. First Nations Correspondence
7. Public Correspondence
8. Continuous Improvement Issues Matrix and SFM Indicator Matrix
9. Multi Criteria Scoring (not available)
10. Meeting Handouts

A digital version of this report is also provided (under separate cover). Please note that some of the documents in the digital version of the Facilitator's Report are not available digitally. The hardcopy Facilitator Report should be considered as the complete reference.

Sincerely,

A handwritten signature in black ink that reads "Dwight Scott Wolfe". The signature is written in a cursive, flowing style.

Dwight Scott Wolfe, R.P.F
Operations Manager
Tesera Systems Inc.



BCTS
BC Timber Sales
Prince George Business Area

Mackenzie Sustainable Forest Management Plan

Public Advisory Group

**Facilitator Report
2008-2009**

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Mackenzie SFMP



BCTS
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Mackenzie Sustainable Forest Management Plan

Public Advisory Group

Terms of Reference

October 28, 2008

1. Background

1.1 Purpose of Sustainable Forest Management Plan

As society has been increasingly affirming a wider set of values that forests can provide, the forest industry has witnessed a distinct change in the philosophy of forest management. Though timber may still be the primary economic value from the forests, a wider range of economic, environmental and social values is being demanded.

Forest management now involves the sustainable management of a much larger spectrum of values and at the same time ensuring that the benefits we enjoy from the forests today do not impact on the ability of subsequent generations to enjoy benefits from the forests in the future. This concept is commonly referred to as "Sustainable Forest Management" (SFM). Sustainable Forest Management (SFM) refers to being economically sustainable on public land, respecting the social needs of the public, and sustaining viable ecosystems. The objective of SFM is to concurrently balance the sustainability of forestry-related ecological, social and economic values for a defined area.

SFM has gained acceptance at the international, national, and local levels. Furthermore, SFM has attracted the attention of buyers of forest products who are increasingly demanding that the industry demonstrate that products are derived from forests managed on a sustainable basis. As a result, forest certification has emerged as a dominant factor in the forest industry in order to provide assurances to buyers of wood products that the management of forests meets identified standards that are considered critical for SFM. As British Columbia forest companies have evolved and have become dependent on the global marketplace for the export of forest products, the issues of sustainable forest management and forest certification have become paramount.

Canadian Forest Products Ltd., in partnership with other licensees, academics, resource specialists, government agency staff, interested parties, and other related organizations has designed an integrated framework for sustainable forest management across its divisions. This Sustainable Forest Management (SFM) Framework has become a credible alternative to current forest management planning in the interior of British Columbia.

The primary purposes of Canadian Forest Products Ltd. and BC Timber Sales Prince George Business Area are to:

- a. Rely on the SFM Framework as the conceptual forest management strategy for the certification effort in Mackenzie;
- b. Jointly develop an Sustainable Forest Management Plan (SFMP) within the geographic area of the Mackenzie Forest District to meet the SFM standard requirements (Z809-02) developed by the Canadian Standards Association (CSA);
- c. Support a public advisory process to:
 - Identify and select indicators, measures and targets, based on the SFM framework and any other criteria relevant to the DFA;
 - Develop, assess, and select alternative strategies;
 - Review the SFMP;
 - Design monitoring programs, evaluate results and recommend improvement; and
 - Discuss and resolve any issues relevant to SFM in the DFA;
- d. Work together to fulfill the SFMP commitments including data collection and monitoring, participating in public processes, producing public reports, and continuous improvement.

The SFMP may be used by Canadian Forest Products Ltd. and BC Timber Sales Prince George Business Area to prepare for eventual certification under the Canadian Standards Association's (CSA) SFM Standard (Z809-02).

This SFMP is intended to be consistent with all existing legislation and other strategic plans.

1.2 Mackenzie SFMP Steering Committee

The current Mackenzie SFMP Steering Committee for the Mackenzie SFMP consists of representatives from BC Timber Sales Prince George Business Area (BCTS) and Canadian Forest Products Ltd. (Canfor).

1.3 Defined Forest Area

The SFMP applies to only the Defined Forest Area (DFA). A DFA is a specified area of forest, including land and water. The DFA for this SFMP is within the Mackenzie Forest District, excluding areas such as private lands, woodlots, Williston Reservoir, Indian reserves, Large Parks and Treaty 8 Lands¹. The DFA boundaries are shown on the map provided in Appendix A.

1.4 Public Advisory Group

The Public Advisory Group (PAG) for the Mackenzie SFMP is comprised of individuals representing the interests listed in section 6.1.1. who voluntarily participate in the PAG process. As outlined in these terms of reference, the PAG will specifically work under the Defined Goals (section 2) as an open, transparent and accountable process. The Mackenzie SFMP Steering Committee and the PAG recognize and agree that Aboriginal participation in the public participation process will not prejudice Aboriginal and Treaty rights.

1.5 Legislation

The Mackenzie SFMP Steering Committee and the PAG shall ensure that the indicators, measures and targets are consistent with current relevant government legislation, regulations and policies. The Mackenzie SFMP Steering Committee and the PAG must also respect the findings of any formal public participation processes that have developed values, objectives, indicators, or targets relating to the CSA SFM elements at a landscape or regional level in the area in which the DFA is situated.

2. Defined Goal

The goal of the Mackenzie SFMP is to demonstrate commitment to sustainable forest management for the DFA. The Mackenzie SFMP Steering Committee, with input from the PAG, will be responsible for developing and implementing the SFMP.

The PAG will have the opportunity to work with the Mackenzie SFMP Steering Committee to:

- a. Identify and select indicators, measures and targets, based on the SFM framework and any other criteria relevant to the DFA;
- b. Develop, assess, and select alternative strategies;
- c. Review the SFMP;
- d. Design monitoring programs, evaluate results and recommend improvement; and
- e. Discuss and resolve any issues relevant to SFM in the DFA.

¹ Refers to fee simple and reserve lands

3. Timelines

Key dates for developing the SFMP:

	<u>To be completed by:</u>	<u>Completed on:</u>
a. Invitations sent to potential participants and newspaper ads published	January 15, 2006	Letters - January 10, 2006 Ads - January 17 & 24, 2006
b. Public Open House	January 21, 2006	January 23, 2006
c. Initial Public Advisory Group meeting	January 28, 2006	January 31, 2006
d. PAG input into the CSA matrix	June 2006	May 9, 2006
e. Strategic scenario analysis	September 2006	October 17, 2006
f. Review of draft SFMP by PAG	October 2006	October 2006
g. SFM Certification Audits	November 2006	November 2006 – February 2007
h. Review of Final SFMP by PAG	April 29, 2008	April 29, 2008

Following the completion of the SFMP, it is estimated that the PAG meeting schedule would include 2–3 meetings per year (as required) beginning in 2007.

4. Communication

4.1 Between the PAG and Mackenzie SFMP Steering Committee

- a. The Mackenzie SFMP Steering Committee will ensure that the PAG meeting summaries are distributed to the PAG within one week
- b. The Mackenzie SFMP Steering Committee will strive to provide background and technical information to the PAG as related to the PAG's defined role, including information related to the DFA and SFM requirements. Confidential business information of the Mackenzie SFMP Steering Committee such as financial or human resource information may be deemed sensitive or proprietary and may not be released.
- c. The Mackenzie SFMP Steering Committee will respond to all recommendations from the PAG. The Mackenzie SFMP Steering Committee will indicate how they applied the recommendations or provide reasons for not applying them. The meeting summary will capture the reasons for not implementing any PAG recommendations, whole or in part.
- d. The Mackenzie SFMP Steering Committee will provide a copy of the SFMP and annual reports to the PAG.
- e. The Mackenzie SFMP Steering Committee may caucus prior to responding to the PAG.

4.2 With the Public

- a. The Mackenzie SFMP Steering Committee will make copies of the SFMP and annual reports available to the public.
- b. When communicating to the media and external parties about the SFMP and PAG process, the PAG and the Mackenzie SFMP Steering Committee will speak only on behalf of their own personal perspectives, will be respectful of each other, and avoid characterizing their comments as representing the PAG or the Mackenzie SFMP Steering Committee. They will also inform the PAG and Mackenzie SFMP Steering Committee of their communication with the media.
- c. The PAG and Mackenzie SFMP Steering Committee may invite the media to attend meetings as observers with advance notification to the PAG and Mackenzie SFMP Steering Committee.

5. Resources

5.1 Travel Expenses

- a. Air travel from Tsay Keh and Fort Ware will be reimbursed for PAG representatives (or in their absence, their alternates). When necessary, mileage between these villages to catch flights to attend Mackenzie PAG meetings will be reimbursed.
- b. Mileage to and from PAG meetings for those PAG representatives (or in their absence, their alternates) traveling more than 25 kilometers each way to the meeting site will be reimbursed per kilometer at the provincial government rate. Mileage for those PAG representatives (or in their absence, their alternates) traveling between Tsay Keh or Kwadacha to/from Mackenzie will be reimbursed at the discretion of the Mackenzie SFMP Steering Committee. PAG representatives (or in their absence, their alternates) traveling from outside the Mackenzie Forest District must obtain approval for travel expenses from the Mackenzie SFMP Steering Committee before the meeting.
- c. Overnight accommodation for PAG representatives and alternates traveling to PAG meetings will be reimbursed if pre-approved by the Mackenzie SFMP Steering Committee. As a general principle, accommodation should be economical.
- d. Expense forms with copies of receipts for the above must be submitted to Canfor-Mackenzie within two weeks following the PAG meeting.

5.2 Meeting Expenses

- a. The Mackenzie SFMP Steering Committee will provide meeting rooms, meals, refreshments, a facilitator, and a scribe.
- b. The Mackenzie SFMP Steering Committee will provide adequate material and other resources to assist the PAG in understanding the relevant concepts.

6. Responsibilities

6.1 Public Advisory Group

6.1.1 Membership Structure

The PAG reflects a range of interests in the DFA. Members of each identified sector will select one representative and one alternate to participate in the PAG. Each representative and alternate will be allowed to represent only one of the sectors listed in Appendix B.

In addition to members of the public participating in the PAG, Aboriginal peoples have a unique legal status and may possess special knowledge concerning Sustainable Forest Management based on their traditional practices and experience. Each of the local First Nations listed below will be encouraged to invite their members to participate in the Mackenzie SFMP PAG. Members of each of the local First Nations attending PAG meetings will be invited to select a representative and alternate to participate in the PAG:

- Kwadacha First Nation
- McLeod Lake Band
- Nak'azdli First Nation

- Saulteau First Nations
- Takla Lake First Nation
- Tsay Keh Dene
- West Moberly First Nations

6.1.2 Selection of the PAG

- a. The Mackenzie SFMP Steering Committee will recruit potential local PAG representatives and alternates through mailed invitations to individuals, an open house, posters, and advertisements through local media.
- b. Interested parties and the Mackenzie SFMP Steering Committee will review the potential membership at the initial PAG meeting. The Mackenzie SFMP Steering Committee will compile all names of potential representatives. Potential representatives for each interest area will discuss and agree as to who will stand as representative(s) and alternate(s). If they are unable to select a representative or alternate for the interest area, then the Mackenzie SFMP Steering Committee will recommend a solution.
- c. Once the PAG is established, the PAG and the Mackenzie SFMP Steering Committee can recommend changes in PAG structure, list of interests, and potential members.
- d. The Mackenzie SFMP Steering Committee, in consultation with the PAG, approves appointments and replacement of PAG representatives and alternates.

6.1.3 Responsibilities of PAG Representatives

PAG representatives are responsible for:

- a. Providing input related to the Defined Goals (defined in Section 2);
- b. Being prepared, informed and ready for meetings;
- c. Requesting of the Mackenzie SFMP Steering Committee an advisor to provide information when the PAG considers this necessary;
- d. Acting as a liaison between the PAG and others from the interest area they are representing;
- e. Assuming responsibility towards reaching consensus on recommendations to the Mackenzie SFMP Steering Committee;
- f. Attending meetings. It is recognized that PAG representatives may miss some meetings due to the nature of their work or other activities;
- g. Informing their alternate and the facilitator if unable to attend a PAG meeting. If a PAG representative misses more than two consecutive meetings without a valid reason and without notifying his/her alternate and the facilitator, the Mackenzie SFMP Steering Committee may, based on consultation with the PAG, replace or remove that representative;
- h. Ensuring that the alternate is informed, up-to-date and prepared prior to the alternate participating in a PAG meeting. This includes providing the alternate with a past meeting summary in a timely, effective fashion; and
- i. Providing their input on upcoming agenda items when they are aware that they will be absent from a PAG meeting. They may provide their information to another PAG member or the Mackenzie PAG Steering Committee to present at the PAG meeting or forward it in writing to the facilitator who will then provide to the Mackenzie PAG Steering Committee or a specified PAG member to present at the meeting.

6.1.4 Responsibilities of PAG Alternates

An alternate may be appointed for each PAG representative. The PAG alternate is responsible for:

- a. Attending PAG meetings on behalf of the representative. When doing so, the alternate agrees to work according to the Terms of Reference; and
- b. Coming informed, up-to-date, and prepared for discussions and decision-making based on briefings by the representative when attending on behalf of the representative.

6.2 **Mackenzie SFMP Steering Committee**

The Mackenzie SFMP Steering Committee is responsible for:

- a. Providing and clarifying information to the PAG as related to the Defined Goals. Where possible, this material will be provided in advance of the meeting;
- b. Providing the PAG with necessary and reasonable human, physical, financial, information and technological resources;
- c. Where possible, informing the PAG (via the agenda) of any advisor attending a meeting;
- d. Not participating in reaching consensus on recommendations by the PAG;
- e. Considering and responding to the recommendations of the PAG;
- f. Making decisions regarding sustainable forest management and certification; and
- g. Preparing the PAG meeting agendas and summaries.

6.3 **Advisors**

The Mackenzie SFMP Steering Committee will invite advisors, as required, to provide technical information and advice to the PAG. These advisors could be from government agencies, professional organizations, academia, consulting firms, or other sources. Advisors are responsible for:

- a. Providing and/or clarifying technical or legal information as requested; and
- b. Not participating in reaching consensus on recommendations by the PAG.

6.4 **Observers**

The public is welcome to participate in discussions at PAG meetings. They may not participate in reaching consensus on recommendations by the PAG.

6.5 **Facilitator**

The PAG facilitator is responsible for:

- a. Ensuring that PAG meetings address the agreed-upon agenda items;
- b. Starting and ending meetings at the times stated in the agenda;
- c. Managing and implementing the Terms of Reference, including the appropriate participation of the PAG, the Mackenzie SFMP Steering Committee, advisors, and observers;
- d. Enabling equitable opportunity by all PAG representatives (or in their absence, their alternates) to participate in the meetings;
- e. Working to clarify interests and issues, and help the PAG build recommendations;
- f. Not participating in reaching consensus on recommendations by the PAG;

- g. Distributing the agenda prior to each PAG meeting; and
- h. Distributing the PAG meeting summaries following each PAG meeting.

7. Conflict of Interest

The PAG recognizes that a conflict of interest could occur if there is a potential for a representative (or his or her alternate) to personally and directly benefit from specific recommendations from the PAG. Therefore, if a PAG representative or alternate has a perceived or real conflict of interest that could result in a potential exclusive personal economic benefit in relation to his or her input to the Defined Goals, that representative or alternate, other PAG representatives and alternates, or a member of the Mackenzie SFMP Steering Committee must state the potential conflict. The PAG and the Mackenzie SFMP Steering Committee will then decide on what actions are needed.

Potential actions could include asking the representative or alternate to:

- a. Serve as an observer for the relevant specific issue(s) and recommendation(s);
- b. Take a leave from the PAG (length of term to be defined); or
- c. Carry on with normal participation.

8. Operating Guidelines

8.1 Meetings Guidelines

All participants in this process agree to:

- a. Arrive on time;
- b. Be prepared for each meeting;
- c. Follow the speakers list;
- d. Be respectful;
- e. Be concise; and
- f. Stay on topic.

8.2 Meeting Agenda and Schedule

The meeting agenda and schedule may change if agreed to by the PAG and Mackenzie SFMP Steering Committee.

8.2.1 Meeting Agenda

- a. Meeting agendas will address the needs of the SFMP and CSA requirements.
- b. The PAG may provide input to meeting agendas during each meeting.
- c. The agenda will include proposed objectives for the meeting.

8.2.2 Meeting Schedule

- a. The PAG and Mackenzie SFMP Steering Committee will agree upon meeting dates.
- b. Meetings will be held as needed to monitor and review the SFMP.

9. Decision Making and Methodology

- a. Anyone attending PAG meetings may participate in the discussions. However, only representatives will participate in making decisions, that is, recommendations to the Mackenzie SFMP Steering Committee.
- b. The PAG agrees to work by consensus. Consensus is defined as no PAG representative substantially disagreeing on an issue and being willing to proceed to the next step. The PAG will work to identify the underlying issues, seek compromise, identify alternatives, and clarify information. The PAG shall make every effort to achieve consensus in a positive and respectful manner, and commits to arriving at the best solution possible.
- c. The PAG will not revisit past decisions unless the PAG representatives agree to do so.
- d. A quorum for any meeting of the PAG shall be greater than 50% of the average number of PAG representatives attending the past five (5) meetings.

10. Dispute Resolution Mechanism

10.1 Process Issues

The facilitator will resolve process issues.

10.2 Technical Issues

- a. Where an impasse is reached, the representation(s) with the outstanding issue shall offer solutions or options for resolution.
- b. If the impasse remains, the generally agreed-upon decision, along with the dissenting view(s), will be forwarded to the Mackenzie SFMP Steering Committee.

11. Review and Revisions

The PAG and Mackenzie SFMP Steering Committee will review and agree upon the Terms of Reference at least annually.

Approved:

Public Advisory Group

Date: January 31, 2006

Mackenzie SFMP Steering Committee

Date: January 31, 2006

Revised:

Public Advisory Group

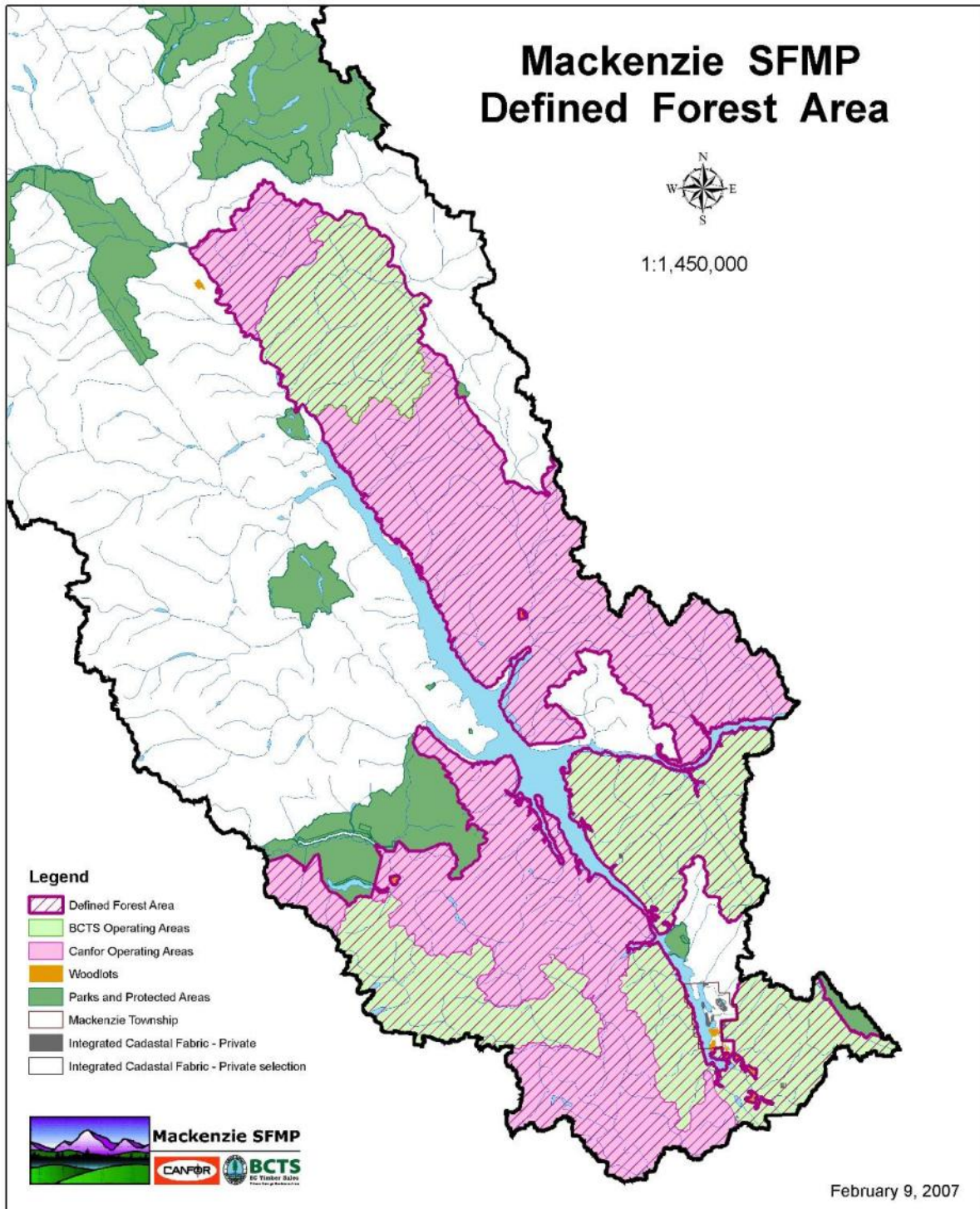
Date: October 28, 2008

Mackenzie SFMP Steering Committee

Date: October 28, 2008

Appendix A

Map of the Defined Forest Area (DFA)



Appendix B

Public Advisory Group Sectors

Academia
Agriculture/Ranching
Contractors – Forestry
Environment/ Conservation
First Nations²
General Public
Germansen Landing
Labour – CEP
Labour – PPWC
Local Government
McLeod Lake Indian Band
Mining/Oil & Gas
Noostel Keyoh
Public Health & Safety
Recreation – Commercial
Recreation – Non-commercial
Saulteau First Nation
Small Business – Germansen Landing
Small Business – Mackenzie
Small Community
Trapping
West Moberly First Nation
Woodlot

Approved:

Public Advisory Group

Date: January 31, 2006

Mackenzie SFMP Steering Committee

Date: January 31, 2006

Revised:

Public Advisory Group

Date: October 28, 2008

Mackenzie SFMP Steering Committee

Date: October 28, 2008

² This sector is open to allow participation of any First Nations person wishing to contribute



Mackenzie SFMP



PAG Meetings Quorum Table

A quorum for any meeting of the PAG shall be greater than 50% of the average number of PAG members attending the past five (5) meetings. (Suggested Mackenzie PAG TOR wording April 29, 2008)

Date	PAG members present	Quorum required
January 31, 2006	13	
February 14, 2006	13	
February 28, 2006	13	
March 14, 2006	12	
March 28, 2006	14	
April 11, 2006	10	
April 25, 2006	12	
May 9, 2006	10	
October 17, 2006	9	
February 20, 2007	8	6
March 28, 2007	9	5
March 13, 2008	3	5
April 29, 2008	4	4
May 27, 2008	3	4
October 28, 2008	5	3
January 21, 2009		3



Mackenzie SFMP



Schedule of Completed PAG Meetings

Meeting Dates	Agenda Items	
April 29, 2008	PAG Meeting #13	Review Terms of Reference Indicator Refinement
May 27, 2008	PAG Meeting #14	Review Annual Report
October 28, 2008	PAG Meeting #15	Review Annual Report Research Updates Indicator Refinement
January 21, 2009	PAG Meeting #16	Review Revised Annual Report Indicator Refinement



Mackenzie SFMP



PAG Meeting

April 29, 2008

10:00 AM – 4:00 PM

Mackenzie Curling Rink
(Lounge)

Agenda

1. Welcome & Introductions
2. Review Agenda
3. Approve Minutes (March 28, 2007 and March 13, 2008)
4. Review of Terms of Reference
5. Presentation of refined SFM Plan
- - - - 12:00 Lunch - - - -
6. SFM Plan presentation (cont'd)
7. Presentation of Species Composition Report
8. PAG Representation - membership
- - - - 10 min. Break - - - -
9. Action Table
10. Other
 - a.
11. Expense Forms
12. Meeting Evaluation
13. Next Meeting

Notes

Please contact the facilitator, Dwight Scott Wolfe, (phone 614-3122 or MacPAG@tesera.com) by noon on Friday, April 25, 2008, if you plan on attending this meeting.



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

PAG Meeting

April 29, 2008

Mackenzie, BC

SFMP Plan

NAME (Please Print)	SIGNATURE	PAG Rep / Alt Observer SC / Advisor
Dwight Scott Wolfe	<i>[Signature]</i>	Facilitator
Tam Briggs	<i>[Signature]</i>	P.N.C.
HARLEY DAVIS	SAULTEAU FIRST NATION.	
Tim Sprouk	BCTS - Jim Sprouk	LSC
Nancy Perreault	<i>[Signature]</i>	Germanessen
Vi Lambie Vi Lambie		PAG
Dorey Ambedicin	<i>[Signature]</i>	LSC
Ken Reinson	Ken Reinson	AGG & FARMING
Mary Reinson		" "
Stephanie Killam	<i>[Signature]</i>	Deputy of Mech.
SCOTT SCHOLEFIELD	<i>[Signature]</i>	BCTS

2 in 4
Tribute



Meeting Summary

Attendance:

<i>Public Advisory Group:</i> Tom Briggs Chief Harley Davis Stephanie Killam Vi Lambie	Nancy Perreault Ken Reiersen Mary Reiersen	<i>Steering Committee & Advisors:</i> Doug Ambedian - Canfor Tim Sproule – BCTS
<i>Facilitator & Scribe:</i> Dwight Scott Wolfe (Tesera Systems Inc.)		<i>Observers:</i> Scott Scholefield – BCTS

1. Welcome & Introduction

1. Members signed in.
2. Welcome by the Chair of the Steering Committee [Doug Ambedian].
3. Introductions
 - a. Confirmed agenda
 - i. Under “Other” – added “Road Safety”
 - b. Only four (4) PAG members were in attendance. The Terms of Reference states: ” Each decision requires a quorum of greater than 50 percent of PAG representatives or in their absence, their alternate.” There are currently nineteen (19) Sectors represented on the PAG so quorum for this meeting is 10.
 - c. The PAG members in attendance agreed to make decisions during the meeting. The Facilitator will follow-up with absent PAG members once the current meeting minutes are distributed and seek their input and consensus on decisions made by PAG members that attended the meeting.
- Action 1: PAG Facilitator to contact absent PAG members and seek input/consensus on decisions made by PAG members that attended the April 29th meeting.**
4. Meeting evaluation results for March 13, 2008 meeting reviewed.
5. Minutes of the March 13, 2008 meeting accepted as written by PAG members in attendance.

6. Minutes of the March 28, 2007 meeting accepted as written by PAG members in attendance.

2. Operational Update – Canfor & BCTS

Doug Ambedian provided a brief follow-up on the state of operations at Canfor Mackenzie.

1. Operations are down to a 4-day work week.
2. Mackenzie Woodlands staff reduced from 21 to 14.
3. Woodlands is optimistic they can meet a targeted \$52/m³ delivered log cost. The target may drop to \$48/m³.
4. In 2003, the average delivered log cost at Canfor Mackenzie was \$88/m³.
5. There is some positive impact on lumber prices coming in the US however a meaningful turn-around is not expected until mid-2010.
6. A significant amount of new homes remain unsold in the US.

Tim Sproule (BCTS) gave a brief update on BCTS operations in the Mackenzie TSA.

1. The PAG members had ongoing concern about the amount of deciduous volume in coniferous stands and how it is utilized. If deciduous volume is scaled then it is billed to the license. Deciduous volume is tracked as “optional utilization”. It doesn’t have a stumpage value but it is scaled. On dead coniferous blocks stumpage is paid on the conifer. If a deciduous-leading block has incidental conifer then the conifer is scaled. The volume of the conifer on the block will be known from the timber cruise and stumpage will be applied to it after it is scaled.
2. PAG members living in Germansen Landing were not included in the recent UBC-sponsored Public Opinion Survey. Plan proponents requested that the survey include outlying communities. The survey was distributed and completed in January – February 2007. Some surveys were left uncirculated at the Mackenzie Post Office. A good time to gather survey information is during the annual Trade Fair.
3. BCTS has identified and mapped the LRMP Corridor on the Nation River. This information will be incorporated into Operational Planning.

3. Review of Terms of Reference

PAG members in attendance reached consensus on the following changes to the Terms of Reference (changes and additions italicised):

1. Date of Terms of Reference changed to “*April 29, 2008*”
2. Section 1.3 Defined Forest Area:
 - a. Added “*Large Parks*” to the list of areas not included in the DFA.
 - b. Added the following footnote to Treaty 8 Lands: “*Refers to fee simple and reserve lands*”.

3. Section 3 Timelines: Words and dates added as follows:

- h. Review of Final SFMP by PAG *April 29, 2008* *April 29, 2008*

4. Section 5.1.b Travel Expenses:

- a. Revised the following sentence: “Mileage to and from PAG meetings for those PAG representatives (or in their absence, their alternates) traveling more than 25 kilometers each way to the meeting site will be reimbursed at \$0.48 per kilometer.” New sentence reads: “Mileage to and from PAG meetings for those PAG representatives (or in their absence, their alternates) traveling more than 25 kilometers each way to the meeting site will be reimbursed *per kilometer at the provincial government rate.*”

5. Section 8.2.2 Meeting Schedule:

- a. Deleted subsection b: “Meeting frequency will be every one to three weeks until the completion of the SFMP.”
- b. Revised subsection c. Deleted “After the SFMP is completed”.

6. Section 9.d. Decision Making and Methodology

- a. Revised wording. Original sentence: “Each decision requires a quorum of greater than 50 percent of PAG representatives or in their absence, their alternate”. Revised sentence reads: “*A quorum for any meeting of the PAG shall be greater than 50% of the average number of PAG representatives attending the past five (5) meetings.*”

7. Section 11 Revised:

- a. Dates changed to “*April 29, 2008*”.

8. Appendix B Public Advisory Group Sectors

- a. Deleted “Culture”
- b. Added the following footnote to “First Nations”: “*This sector is open to allow participation of any First Nations person wishing to contribute*”
- c. Deleted “Prospectors”
- d. Added “*Saulteau First Nation*”
- e. Added “*Small Community*”
- f. Added “*West Moberly First Nation*”
- g. Dates changed to “*April 29, 2008*”.

Action 2: Licensee Steering Committee to determine an equitable rate for travel mileage reimbursement.

4. PAG Representation – membership

1. PAG members are able to to the members of the community about PAG affairs. Suggestion that the PAG meeting notice be posted to the Municipality website.
2. Currently, there is no representation on the PAG from the following sectors: Academia, Contractors – Forestry, First Nations, Labour,
3. Local Government: Mayor Stephanie Killam has asked to replace Mel Botrakoff as the “Local Government” representative.
 - a. The Mackenzie SFMP Steering Committee, in consultation with the PAG members in attendance, approved the request of Stephanie Killam to replace Mel Botrakoff as the “Local Government” representative.
4. Contractors – Forestry: Doug Ambedian has a list of local contractors that could be approached for representation.
5. Mining and Oil activities in the DFA will be monitored over the next year to see if it will be necessary to split the “Mining/Oil & Gas” sector into two sectors in a future review of the terms of reference.
6. Public Health and Safety: PAG members discussed a number of local residents that could be approached for representation.
7. Recreation – Commercial: PAG members discussed a number of local residents that could be approached for representation.
8. Small Business Mackenzie: PAG members discussed a number of local residents that could be approached for representation.
9. Trappers: PAG members discussed a number of local residents that could be approached for representation.
10. West Moberly First Nation: Teena Demeulemeester has let her name stand as the “West Moberly First Nation” representative.
 - a. The Mackenzie SFMP Steering Committee, in consultation with the PAG members in attendance, approved the appointment of Chief Harley Davis as the “Teena Demeulemeester” representative.
11. Saulteau First Nation: Chief Harley Davis has let his name stand as the “Saulteau First Nation” representative.
 - a. The Mackenzie SFMP Steering Committee, in consultation with the PAG members in attendance, approved the appointment of Chief Harley Davis as the “Saulteau First Nation” representative.
12. Woodlot: PAG members discussed a number of local residents that could be approached for representation.

13. Small Community: Mary Reiersen has let her name stand as the “Small Community” representative.

a. The Mackenzie SFMP Steering Committee, in consultation with the PAG members in attendance, approved the appointment of Mary Reiersen as the “Small Community” representative.

14. Suggestion that “Alternative Energy” sector be added.

Action 3: Licensee Steering Committee to work with PAG representatives and others in the community to find new/replacement PAG representatives.

Action 4: Licensee Steering Committee to investigate the possibility of Green Energy participating in the Mackenzie SFM process.

5. Presentation of Refined SFM Plan

1. Tim Sproule presented the refined SFM Plan. Highlights are listed below:

2. Alignment to LRMP Objectives:

i. See Handout

ii. LRMP objectives are linked to SFM Plan measures. 73% of LRMP objectives at least partially met by SFM Plan measures

3. Section 6.1.2 Natural Disturbance Regime

a. Added new section on Fire.(pg. 176)

4. PAG representatives noted that Western Balsam Bark Beetle is becoming an issue. Balsam – leading stands are currently not targeted for harvesting.

5. LRMP Patch Objectives are still being managed.

6. Measure 4-1.1 Harvest Volume

a. BCTS harvest volumes are compiled and presented in the plan (pg. 110)

7. Measure 4-2.5 Support of Environmental Projects

a. BCTS Allocation shown (pg. 117)

8. Measure 4-5.1 Competitive Sale of Timber

a. Update on BCTS advertised volume (pg. 124)

9. Measure 4-6.2 Forest Stand-damaging Agents

a. Added paragraph describing annual Forest Health Strategy for the Mackenzie TSA (pg. 127)

10. Measure 7-1.5 TOR Review (Process)

- a. Revised ToR review date (pg. 140).
11. Measure 7-1.6 Satisfaction (Affected Parties)
 - a. Added Reference to UBC Public Opinion Survey (pg. 142).
12. Measure 7-2.6 Communication Strategy Effectiveness
 - a. Licensee Steering Committee is still working on this measure. Need to develop customized strategies with interested parties and stakeholders (pg. 152).
13. Discussion on the large number of measures in the plan and that it is legacy from the original Slokan SFM Framework.
14. Consensus from PAG members in attendance that this SFM Plan adequately addresses the concerns of the PAG members.
15. PAG representatives discussed the timing of the Annual Report and their expectation around delivery with a March 31 cut off for information. Reporting in June is tight therefore, September is a logical delivery date. As reporting mechanisms improve, the reporting will get easier as information is collected on a regular basis. The PAG representatives didn't have any concerns with a September delivery of the Annual report.
16. Comments on the SFM Plan to be directed to the PAG Facilitator (Dwight Scott Wolfe – MacPAG@Tesera.com). Comments due May 29, 2008

6. Presentation of Species Composition Report

1. Doug Ambedian presented results of the species composition report “Developing Baseline Data of Tree Species Composition in Unmanaged and Managed Forests by BEC Zone/Subzone/Variant in the Mackenzie Defined Forest Area”
2. See handout.

7. Actions updated

1. See Action Table (below)
2. Action ID - Jan 31 – 02: Complete
3. Action ID - Mar 14-06: An updated map showing draft OGMA's for portions of the Mackenzie District was provided at the meeting. This action is complete.
4. Action ID - May 9-01: Scott Scholefield provided an update. There are no current timelines for moving forward with LRMP visual quality recommendations. Some recommendations will not be moving forward. A revised list of LRMP visual quality recommendations was discussed. See attachments. This action is complete.

5. Action ID - May 9-04: The Resource Road Act (Bill 30) is in first reading. Possible one year before the bill comes into force. Regulations are currently being prepared. The Bill 30 website is located here: http://www.leg.bc.ca/38th4th/1st_read/gov30-1.htm. This action is complete.

6. Action ID - Feb 20 - 01: BCTS' FSP content map showing the Forest Development Units and other details were provided, as requested, to Ken Reiersen), Vida Tattrie (via Vi Lambie) and Vi Lambie. This action is complete.

7. Action ID – Mar 13-01: PAG attendance records and recommendations were presented at the PAG meeting. This action is complete.

8. Other

1. Information on the revised CSA SFM Certification Standard can be found at the CSA User Group Website website: <http://www.csasfmforests.ca/>

2. Rural Economy Symposium is being held at UNBC in Prince George May 15 – 16, 2008. More information can be found at the website - http://www.unbc.ca/cdi/space_to_place.html

3. Road Safety – Ken Reiersen:

a. Road safety on the Thutade FSR between Germansen Landing and Fort St. James is an ongoing issue and has been mentioned previously at PAG meetings and at the Mackenzie LRMP.

b. The road is not safe to drive from km 65 to Sylvester / Skunk / Manson.

c. It seems that no one wants to take responsibility for safety on this road.

d. Last year there was one fatal accident involving a truck driver.

e. Members of the Germansen Landing community have said “enough is enough” and they are threatening a blockade until such time as the road width is fixed.

f. It was noted that the draft Resource Road Act is meant to address some of these issues and clarify ownership responsibility.

g. Ken would like to see a letter coming from the Mackenzie PAG that would acknowledge this issue in the context of Measure 9-4.1 Safety Policies.

9. PAG Meeting Feedback (PAG questionnaire): Mackenzie SFMP PAG questionnaire distributed, completed, and collected.

10. Next meeting:

1. Date: May 27, 2008

2. Time: 10:00 AM – 4:00 PM

3. Place: Mackenzie Recreation Centre – Multi-Purpose Room

4. Agenda: Review and comment on Annual Report

11. Actions

ID#	ACTION	WHO	DEADLINE	STATUS
Jan 31 – 02	Provide clarity regarding Treaty 8 references on DFA map.	Steering Committee	Ongoing	Complete
Mar 14 – 06	Provide draft of proposed old growth management area from licensees	Steering Committee	Next Meeting	Complete
May 9 – 01	Provide an update on LRMP visual quality recommendations	Steering Committee	Next Meeting	Complete
May 9 – 04	Provide PAG with information on the “Resource Road Act.”	Steering Committee	When available	Complete
Feb 20 – 01	Provide BCTS’ FSP content map showing the Forest Development Units and other details to Germansen Landing (via Ken Reiersen), Vida Tattie and Vi Lambie.	Tim Sproule	Ongoing	Complete
Mar 28 -03	Develop interim targets for Coarse Woody Debris (CWD) and review with PAG	Steering Committee	September 2008	
Mar 13-01	Review PAG attendance records and bring recommendations to next meeting.	Steering Committee	Next Meeting	Complete
April 29-01	Contact absent PAG members and seek input/consensus on decisions made by PAG members that attended the April 29th meeting.	PAG Facilitator	Next Meeting	
April 29-02	Determine an equitable rate for travel mileage reimbursement.	Licensee Steering Committee	Next Meeting	
April 29-03	Work with PAG representatives and others in the community to find new/replacement PAG representatives.	Licensee Steering Committee	Next Meeting	
April 29-04	Investigate the possibility of Green Energy participating in the Mackenzie SFM process.	Licensee Steering Committee	Next Meeting	
April 29-05	Comments on SFM Plan to be directed to the PAG Facilitator (Dwight Scott Wolfe – MacPAG@Tesera.com).	PAG	May 29, 2007	



Mackenzie SFMP



PAG Meeting

May 27, 2008

10:00 AM – 4:00 PM

Mackenzie Recreation Centre
Multi-purpose Room

Agenda

1. Welcome & Introductions
2. Review Agenda
3. Approve Minutes (April 29, 2008)
4. Review of Annual Report
- - - - 12:00 Lunch - - - -
5. Review of Annual Report (cont'd)
- - - - 10 min. Break - - - -
6. Action Table
7. Other
 - a.
8. Expense Forms
9. Meeting Evaluation
10. Next Meeting

Notes

Please contact the facilitator, Dwight Scott Wolfe, (phone 614-3122 or MacPAG@tesera.com) by noon on Friday, May 23, 2008, if you plan on attending this meeting.



Mackenzie SFMP



BCTS

BC Timber Sales
Pineau George Business Area

PAG Meeting

May 27, 2008

Mackenzie, BC

NAME (Please Print)	SIGNATURE	PAG Rep / Alt Observer SC / Advisor
Dwight Wolfe		Facilitator
Vi Lambie		Environment Rep.
T. BRISGS		Community
SCOTT SCHAEFFER		BCTS
LAWRENCE NAPIER		FRIENDS MACKENZIE TRAPPERS
Tim Spruce		Steering Com.
Doug Amberlequin		Steering Com.



Mackenzie SFMP



PAG Meeting

May 27, 2008, 10:00 am – 4:00 pm
Recreation Centre, Mackenzie

Meeting Summary

Attendance:

<i>Public Advisory Group:</i> Tom Briggs Vi Lambie Lawrence Napier	<i>Steering Committee & Advisors:</i> Doug Ambedian - Canfor Tim Sproule – BCTS
<i>Facilitator & Scribe:</i> Dwight Scott Wolfe (Tesera Systems Inc.)	<i>Observers:</i> Scott Scholefield – BCTS

1. Welcome & Introduction

1. Members signed in.
2. Welcome by the Chair of the Steering Committee [Doug Ambedian].
 - a. Introductions: PAG Representatives welcomed Lawrence Napier (Mackenzie and McLeod Lake Trappers Association) as the new Trapping Sector representative.
3. Confirmed agenda:
 - a. Only three (3) PAG representatives were in attendance. The Terms of Reference states: "Each decision requires a quorum of greater than 50 percent of PAG representatives or in their absence, their alternate." There are currently nineteen (19) Sectors represented on the PAG so quorum for this meeting is 10.
 - b. Discussion by PAG representatives on the ongoing attendance issue. The LSC attempted to achieve attendance on the April 29th revisions to the Terms of Reference through a mailed PAG consensus record. Only 3 records were received prior to this meeting.
 - c. The PAG members in attendance agreed to make decisions during the meeting.
 - d. The Facilitator will continue to follow-up with absent PAG members once the current meeting minutes are distributed and seek their input and consensus on decisions made by PAG members that attended the meeting.

Action 1: PAG Facilitator to contact absent PAG members and seek input/consensus on decisions made by PAG representatives that attended the April 29th and May 27th meetings.

4. Meeting evaluation results for April 29, 2008 meeting reviewed.
5. Minutes of the April 29, 2008 meeting accepted as written by PAG representatives in attendance.

2. Review of Annual Report

Tim Sproule provided a review of the 2006-2007 Annual Report.

1. Tim reviewed the intent of the Annual Report and the need for the public to be satisfied with the measurement processes used.
2. Tim reviewed the characteristics of a High Quality Indicator and the Test of a Good Indicator.
 - a. See attachments
3. Executive Summary (pg 2):
 - a. 75 measures were met (69%)
 - b. 16 measures pending (15%)
 - c. 18 measures not met. (16%)
4. Measures not met included:
 - a. Measure 1-2.3 Wildlife Tree Patch Requirements (pg 10)
 - i. Two BCTS blocks were harvested according to the approved site plan however spatial data summaries by the GENUS planning database was not amended back into the site plan. In the future, all site plans will be amended to match the area summaries in GENUS.
 - b. Measure 1-2.4 Riparian Management Area Effectiveness (pg 11)
 - i. On a BCTS block, a 5-metre machine free zone was not observed. Compliance and Enforcement recommended that no action was required.
 - c. Measure 1-2.4 Riparian Management Area Effectiveness (pg 11)
 - d. Measure 1-2.10 Road Re-vegetation (pg 13)
 - i. Canfor will report on re-vegetation requirements in the future. BCTS had one TSL Licensee that did not follow-up on re-vegetation requirements .
 - e. Measure 1-3.2 Species at Risk Identification (pg 14)
 - i. Canfor: one of sixteen identified personnel received required training. Canfor has committed to ensuring all identified personnel are trained prior to the 2007 field season.
 - f. Measure 1-4.3 Sites of Biological Significance Identification (pg 18)

- i. Canfor: No formal training of identified personnel. Canfor has committed to ensuring all identified personnel are trained prior to the 2007 field season.
- g. Measure 2-1.2 Soil Conservation Effectiveness (pg 20)
 - i. BCTS: Two blocks had soil disturbance levels above the acceptable amount. Follow-up soil disturbance surveys are planned for these blocks later in 2007.
- h. Measure 2-2.3 Access Management Communication (pg 23)
 - i. Canfor: Prior to development of this measure Canfor had not developed specific communication strategies. Canfor has initiated development of strategies and will include access management with those stakeholders seeking development opportunities.
 - ii. The local Trappers Association can redirect licensee communication as required.
- i. Measure 2-3.1 Regeneration Delay (pg 24)
 - i. Incorrectly shown as “met” in the Executive Summary.
 - ii. BCTS: did not meet regeneration delay on 265 ha.
- j. Measure 2-5.1 Accidental Fires (pg 25)
 - i. BCTS: Four accidental fires with 890 ha damaged.

Action 2: BCTS to provide additional information in the Annual Report (Measure 2-5.1) on the nature and location of the accidental fires that occurred in their operating area in 2006 – 2007.
- k. Measure 2-5.2 Risk Factor Management (pg 26)
 - i. The Forest Health Strategy and Tactical Plan identifies 26 factors. Of these, 13 are considered high priority. The others occur at low levels or are hard to manage. Consider revising this measure to only address the high priority health factors
- l. Measure 3-1.6 Soil Conservation Effectiveness (pg 26)
 - i. See Measure 2-1.2 Soil Conservation Effectiveness
- m. Measure 4-2.4 Support of Public Initiatives (pg 29)
 - i. Canfor: Prior to development of this measure Canfor did not track support of public initiatives. Canfor has initiated tracking of support for public initiatives.
- n. Measure 4-6.1 Risk Factor Management (pg 34)
 - i. See Measure 2-5.2 Risk Factor Management (pg 26)
- o. Measure 4-6.3 Accidental Fires (pg 34)
 - i. See Measure 2-5.1 Accidental Fires (pg 25)

p. Measure 6-1.5 Support Opportunities (pg 37)

- i. BCTS has no requirement to report out. Canfor: Prior to development of this measure Canfor did not track support opportunities. Canfor has initiated tracking of support opportunities.

q. Measure 7-1.7 Representation (PAG) (pg 40)

- i. Twenty-four sectors identified in the Terms of Reference. Twenty sectors have representatives.

r. Measure 7-2.6 Communication Strategy Effectiveness (pg 44)

- i. Canfor: Prior to development of this measure, formal communication strategies were not well developed or documented. Canfor will develop appropriate strategies and data will be available for the next reporting period.

s. Measure 7-3.1 Adaptive Management (pg 44)

- i. Canfor: An adaptive management process has yet to be formally integrated into Canfor's Management System. Formal integration will be reported on during the next reporting period.

t. Measure 9-3.1 Resource Features (pg 50)

- i. Canfor: Prior to development of this measure, management and protection of resource features was not tracked. Canfor will implement the necessary tools to track and report on this measure for the next reporting period.

5. Measures pending included:

a. Measure 1-1.1 Old Forest (pg 5)

b. Measure 1-1.2 Interior Forest (pg 5)

c. Measure 1-1.5 Productive Forest Representation (pg 6)

d. Measure 1-2.5 Tree Species Composition (pg 11)

e. Measure 1-2.9 Peak Flow Index (pg 13)

f. Measure 1-3.3 Species at Risk Management (pg 14)

- i. This measure is not due until the 2007 -2008 Annual Report.

g. Measure 1-3.4 LRMP Wildlife Management (pg 15)

- i. This measure is not due until the 2007 -2008 Annual Report.

h. Measure 1-3.5 Species at Risk Management Effectiveness (pg 15)

i. Measure 1-3.6 LRMP Wildlife Management Effectiveness (pg 16)

j. Measure 1-4.4 Sites of Biological Significance Management (pg 19)

- i. This measure is not due until the 2007 -2008 Annual Report.
- k. Measure 1-4.5 Sites of Biological Significance Effectiveness (pg 20)

- i. This measure is not due until the 2007 -2008 Annual Report.

- l. Measure 2-1.5 Site Index (pg 21)

- m. Measure 2-3.4 Tree Species Composition (pg 25)

- i. See Measure 1-2.5 Tree Species Composition (pg 11)

- n. Measure 5-1.1 Non-timber benefits (pg 34)

- i. There is an opportunity to incorporate marketed and non-marketed, non-timber values into one measure.

Action#3. Add a non-timber benefits issue to the Continuous Improvement Matrix.

- o. Measure 5-1.2 SFM Implication on Non-timber Values (pg 35)

- p. Measure 7-3.3 Annual Report (pg 45)

6. Some highlights from “Measures met” included:

- a. Measure 1-2.6 Caribou Ungulate Winter Range Effectiveness

- i. There are no caribou ungulate winter ranges designated in Canfor’s operation area.

- b. Measure 4-1.1 Harvest Volumes

- i. Canfor looks to be on target for meeting their targets for the 5-yr cut control period.

- ii. BCTS is showing the Sales Schedule volume.

- c. Measure 4-1.2 Waste and Residue

- i. Incorrectly shown as “met” in the Executive Summary.

- ii. BCTS current status is 86.5% bringing the DFA status to 93.1. This indicator will be changed to “not met” in the Executive Summary”

- d. Measure 4-2.1 Wood Purchases

- i. Canfor purchased 435,982 m3 from private enterprises in 2006-2007

- e. Measure 4-2.2 First-Order Wood Products

- i. The number of first-order wood products produced in the Mackenzie DFA is 6.

- f. Measure 4-4.3 Local Investment

- i. Exclusive of stumpage, 94.1% of the money spent on forest operations and management on the DFA is provided by northern central interior suppliers.

- g. Measure 4-5.2 Primary Milling Facilities

- i. As of March 31, 2007, Canfor was maintaining two primary milling facilities in the DFA
- h. Measure 6-1.3 Business Opportunities
 - i. Canfor provided 35 non-tendered opportunities for forest management activities to businesses within or immediately adjacent to the TSA.
- i. Measure 7-1.9 SFMP consistency with LRMP
 - i. At the Mackenzie PAG meeting on February 14, 2006, the subject of LRMP and SFM Plan indicator consistency was discussed.
- j. Measure 7-2.1 Concerns (affected parties)
 - i. This measure lists the types of opportunities not the total number of occurrences. Currently, there are at least 6 different ways to give the public and stakeholders an opportunity to express forestry-related concerns and be involved in SFM planning processes.

7. PAG Representatives had a general discussion on the Annual Report. The Annual Report is considered informative, well produced and easy to read.

8. PAG Representatives accepted the 2006-2007 Annual Report as presented.

3. Actions updated

- 1. See Action Table (below)
- 2. Action ID - April 29-01: Completed.
- 3. Action ID - April 29-02: Deferred to next meeting.
- 4. Action ID - April 29-03: Ongoing.
- 5. Action ID - April 29-04: Deferred to next meeting.
- 6. Action ID - April 29-05: SFM Plan comments due May 29, 2008.

4. Other

1. Canfor`s next SFM Audit is July 24 and 25, 2008. BCTS will have their next SFM audit in January 2009. There is an opportunity for PAG members to accompany the Team on the Field Audit.

2. A Field Trip will be organized (subject to funding) for September 2008. If the Field Trip is going to occur, a notice will be sent to PAG members before the end of August 2008.

5. PAG Meeting Feedback (PAG questionnaire): Mackenzie SFMP PAG questionnaire distributed, completed, and collected.

6. Next meeting(s):

Date: September 2008

Time: 10:00 AM – 4:00 PM

Place: Field Trip - TBD

Time: 10:00 AM – 4:00 PM

Agenda: TBD

Place: Mackenzie Recreation Centre –
Multipurpose Room

Date: October 28, 2008

Agenda: Review 2007-2008 Annual
Report

7. Actions

ID#	ACTION	WHO	DEADLINE	STATUS
Mar 28 -03	Develop interim targets for Coarse Woody Debris (CWD) and review with PAG	Steering Committee	September 2008	
April 29-01	Contact absent PAG members and seek input/consensus on decisions made by PAG members that attended the April 29th meeting.	PAG Facilitator	Next Meeting	Complete
April 29-02	Determine an equitable rate for travel mileage reimbursement.	Licensee Steering Committee	Next Meeting	Ongoing
April 29-03	Work with PAG representatives and others in the community to find new/replacement PAG representatives.	Licensee Steering Committee	Next Meeting	Ongoing
April 29-04	Investigate the possibility of Green Energy participating in the Mackenzie SFM process.	Licensee Steering Committee	Next Meeting	Ongoing
April 29-05	Comments on SFM Plan to be directed to the PAG Facilitator (Dwight Scott Wolfe – MacPAG@Tesera.com).	PAG	May 29, 2008	Ongoing
May 27-01	Contact absent PAG members and seek input/consensus on decisions made by PAG representatives that attended the April 29 th and May 27 th meetings.	PAG Facilitator	Next Meeting	
May 27-02	Provide additional information in the Annual Report (Measure 2-5.1) on the nature and location of the accidental fires that occurred in their operating area in 2006 – 2007.	BCTS	Next Meeting	
May 27-03	Add a non-timber benefits issue to the Continuous Improvement Matrix.	Licensee Steering Committee	Next Meeting	



Mackenzie SFMP



PAG Meeting

October 28, 2008

9:00 AM – 4:00 PM

Conference room (2nd flr)

Mackenzie Recreational Centre

Agenda

1. Welcome
2. Review Agenda
3. Introductions
 - Canfor, BCTS, PAG attendees
4. Update on Terms of Reference status
5. Review and Comment 2007-2008 Annual Report
- - - - 10:30 Break - - - -
6. Research Updates:
 - Presentation on Tree Species Composition in Unmanaged and Managed Forests in the Mackenzie DFA (Rob McCann)
- - - 12:00 Lunch - - - -
7. Research Updates continued:
 - Coarse Woody Debris report
 - Non-timber forest products
8. Peak Flow Analysis update
9. Updates to Criteria and Indicator matrix
- - - - 2:30 Break - - - -
10. Updates to Continuous improvement matrix (cont.)
11. Update on Actions
12. Expense Forms
13. Meeting evaluation
14. Next Meeting

*Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, October 24, 2008, if you plan on attending this meeting.*



Meeting Summary

Attendance:

<i>Public Advisory Group:</i> Teena Demeulemeester Tom Briggs Vi Lambie Stephanie Killam Lionel Chingee	<i>Steering Committee & Advisors:</i> Dan Szekely - Canfor Tim Sproule – BCTS Darwyn Koch - BCTS
<i>Facilitator & Scribe:</i> Dwight Scott Wolfe (Tesera Systems Inc.)	<i>Observers:</i> Rob McCann – Wildlife Infometrics Inc.

1. Welcome & Introductions

1. Members signed in.
2. Welcome by the Chair of the Steering Committee [Tim Sproule].
3. Confirmed agenda
4. Update on Terms of Reference status
 - a. The revisions to the Terms of Reference (dated April 29, 2008) were reviewed.
 - b. Lionel Chingee and Stephanie Killam endorsed the Terms of Reference as revised.
 - c. Combined with the endorsement of PAG members at the April 29th meeting (4), results of the mail-in consensus report (4 - copies on file) this brings the number of PAG members endorsing the revised Terms of Reference to ten (10).
 - i. This meets the quorum requirement in place under the old ToR.
 - d. PAG members discussed potential representatives/alternates for the following Sectors: Academia, First Nations, Labour – CEP, Labour – PPWC, Mining/Oil & Gas, Recreation – Non-commercial, Small Business – Mackenzie.

Action Item #1: Facilitator to contact potential Sector representatives / alternates to discuss process and solicit interest before next meeting.

5. Meeting evaluation results for May 27, 2008 meeting reviewed.
6. Minutes of the May 27, 2008 meeting accepted as written.

2. Review of Annual Report

Tim Sproule provided a review of the 2007-2008 Annual Report.

1. Tim reviewed the intent of the Annual Report and the need for the public to be satisfied with the measurement processes used.
2. Executive Summary (pg 2):
 - a. 76 measures were met; 6 measures pending; 27 measures not met.
3. Measures not met included:
 - a. Measure 1-1.1 Old Forest (pg 5)
 - i. Of the 67 BEC Group / Landscape Unit Grouping combinations represented in the Mackenzie DFA and contained in the “Non-spatial Landscape Biodiversity Objectives in the Mackenzie Forest District” currently 94% (63) have old forest in excess of the target established in the objective.
 - ii. PAG members are interested in having a Field Tour to view some of these Groupings and other SFM Values. This would be an opportunity to engage PAG members and provide context to the discussion.

Action Item #2: LSC to provide PAG members with a copy of the Landscape Objectives Order for the Mackenzie TSA

- b. Measure 1-2.1 Patch Size (pg 7)
 - i. It is anticipated that patch size will trend toward LRMP targets, however, many will also trend away from targets in the short term due to the effects of the massive mountain pine beetle infestation and associated attempts to maximize recovery of the dead timber.
- c. Measure 1-2.3 Wildlife Tree Patch Requirements (pg 10)
 - i. Of the 42 BCTS blocks harvested, five blocks were determined to be inconsistent with the approved BCTS Forest Development Plan. Operations in the field were consistent with Site Plan requirements.
- d. Measure 1-2.4 Riparian Management Area Effectiveness (pg 11)
 - i. A 5 meter machine free zone was not observed in one BCTS block. This instance has been brought up to Compliance and Enforcement staff resulting in a no-action recommendation.
- e. Measure 1-2.6 Caribou Ungulate Winter Range Effectiveness (pg 12)
 - i. There were no ungulate winter ranges designated in Canfor’s operating area during the reporting period.

- ii. BCTS had one road within ungulate winter ranges.
- f. Measure 1-2.9 Peak Flow Index (pg 13)
 - i. Peak flow calculations are complete for all watersheds within the DFA. Unfortunately, they were complete outside the reporting period. They will be reported as completed in the next annual report.
- g. Measure 1-2.10 Road Re-vegetation (pg 13)
 - i. BCTS: A change in procedures during the last reporting period resulted in a delay in implementing revegetation efforts. The new procedure will ensure that obligations are dealt with in a timelier manner.
- h. Measure 1-2.12 Road Environmental Risk Assessments (pg 14)
 - i. BCTS has a risk assessment process for determining monitoring frequency but it is based on the category of work and not on site specific concerns. A revised process is being developed to refine BCTS pre-construction risk assessment.
- i. Measure 1-3.1 Caribou Ungulate Winter Range (pg 14)
 - i. See Measure 1-2.6
- j. Measure 1-3.3 Species at Risk Management (pg 15)
 - i. Canfor: 41 of 67 (61.2%) of Species at Risk within the DFA had management strategies developed by April 2007.
- k. Measure 1-3.4 LRMP Wildlife Management (pg 15)
 - i. Canfor currently has a policy dealing with “Wildlife Features”, which are consistent with management direction in the LRMP. As a result, Canfor has management strategies in place for 3 of the 14 species listed, or 21.4%.
 - ii. BCTS current management strategies cover 4 of the above listed species. (arctic grayling, bull trout, lake trout, rainbow trout).
- l. Measure 1-4.3 Sites of Biological Significance Identification (pg 19)
 - i. Canfor: While most appropriate personnel have received information regarding several types of sites of biological significance (mineral licks, raptor nests, denning sites, wallows).
 - ii. BCTS: Online training program developed too late to train staff who joined after spring session.
- m. Measure 2-5.2 Risk Factor Management (pg 25)
 - i. For Canfor and BCTS combined, 13 of 26 (50%) of Identified Risk Factors have Updated Management Strategies.

Mackenzie SFMP PAG Meeting Summary - October 28, 2008

- n. Measure 4-1.1 Harvest Volumes (pg 27)
 - i. Harvest levels relative to AAC apportionment / Sales Schedule volume in the DFA
 - Canfor: 87.3%
 - BCTS: 12.4%
- o. Measure 4-1.2 Waste and Residue (pg 27)
 - i. BCTS: Final harvest reports indicate that residue and waste levels may potentially be above benchmark limits on several blocks. Surveys have been scheduled and should limits be exceeded licensee will be billed for waste.
- p. Measure 4-5.1 Competitive Sale of Timber (pg 32)
 - i. BCTS: 45.1%
 - ii. Canfor is exempt from the requirements of this measure.
- q. Measure 4-6.1 Risk Factor Management (pg 33)
 - i. See Measure 2-5.2
- r. Measure 7-1.2 SFM Review (PAG) (pg 38)
 - i. The SFM Plan was not reviewed during the reporting period.
- s. Measure 7-1.4 Satisfaction (PAG) (pg 39)
 - i. 70.0% satisfaction with PAG process during the reporting period.
 - ii. Meeting evaluations are conducted after each PAG meeting. The results are made available before or during the next meeting. The average of the summary of the PAG meeting evaluation forms are used to determine this indicator percent.
- t. Measure 7-1.5 TOR Review (Process) (pg 39)
 - i. The Terms of Reference was not reviewed during the reporting period.
- u. Measure 7-1.7 Representation (PAG) (pg 40)
 - i. 95.8 % (23/24) of the public sectors as defined in the TOR were invited to participate in the PAG process.
- v. Measure 7-1.8 Communication (PAG) (pg 40)
 - i. Percentage of PAG satisfaction with the amount and timing of information presented for informed decision making.
 - ii. During the reporting period:
 - 66.0% overall satisfaction with the amount & timing of information presented.

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- 74.0% overall satisfaction with the information.

w. Measure 7-2.3 Response to concerns (pg 42)

i. BCTS: 33.3%

ii. Both responses were sent after 30 days. Both parties are still engaged in discussions with BCTS over issues raised and BCTS is continuing to work to address them.

x. Measure 7-3.1 Adaptive Management (pg 43)

i. Adaptive management has been incorporated into the joint SFMP reporting process. In preparing the annual report Canfor and BCTS reviewed the process and sources of information used to report performance and look for opportunities to improve. Unfortunately, the reporting process for the 2006-07 Annual report was not complete prior to March 31, 2008.

y. Measure 7.3.3 Annual Report (pg 45)

i. The Annual Report was not reviewed during the reporting period.

z. Measure 8-3.1 Concerns (First Nations) (pg 46)

i. BCTS Response was after 30 days. There has been ongoing communication to resolve issue.

4. Measures pending included:

a. Measure 1-1.5 Productive Forest Representation (pg 6)

i. The current status of this indicator is pending further discussions with the PAG regarding setting reasonable targets and variances.

b. Measure 1-2.5 Tree Species Composition (pg 11)

i. The current status of this indicator is pending further discussions with the PAG regarding setting reasonable targets and variances.

c. Measure 2-1.5 Site Index (pg 22)

i. Canfor: For this reporting period Canfor has not developed the tools to track this measure. Canfor will have such tools available for the next reporting period. However a site index adjustment project completed in 2005/06 indicates that site indices on managed stands in the SBS and BWBS is 24% higher for pine and 54% higher for spruce.

ii. BCTS: Difficulty in defining the baseline site index groups has delayed assembling the first year data.

d. Measure 2-3.4 Tree Species Composition (pg 25)

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- i. See Measure 1-2.5 Tree Species Composition (pg 11)
- e. Measure 5-1.1 Non-timber benefits (pg 34)
 - i. A preliminary list of potential non-timber benefits will be presented to the PAG at the fall 2008 meeting. Forecasting for this measure entails that the report will exist on or before June 30, 2007. Once that is in place, this measure will no longer be needed.
- f. Measure 5-1.2 SFM Implication on Non-timber Values (pg 34)
 - i. A preliminary list of potential non-timber benefits will be presented to the PAG at the fall 2008 meeting. Description of SFM implications requires that a list of marketed non-timber benefits be developed. As per Measure 5-1.1, a description of implications is to be developed on or before June 30, 2007.
- 5. Some highlights from “Measures met” included:
 - a. Measure 1-1.2 Interior Forest (pg 5)
 - i. Of the 67 BEC group / Landscape Unit Grouping combinations represented in the Mackenzie DFA and contained in the “Non-spatial Landscape Biodiversity Objectives in the Mackenzie Forest District” currently 99% (66) have old interior forest in excess of the target established in the objective. The exception is a very small unit in the Nation LU where there is less than 2000 hectares of landbase occupied by the BEC group.
 - b. Measure 1-2.2 Coarse Woody Debris Levels (pg 10)
 - i. Canfor: All cutblocks harvested exceeding CWD requirements.
 - ii. BCTS: All cutblocks harvested exceeding CWD requirements.
 - c. Measure 1-3.5 Species at Risk Management Effectiveness (pg 15)
 - i. Canfor: 100% (54/54) of forest operations are consistent with Species at Risk in the DFA management strategies as identified in operational plans, tactical plans, and/or site plans.
 - ii. BCTS : 98.8% (83/84) of forest operations are consistent with Species at Risk in the DFA management strategies as identified in operational plans, tactical plans, and/or site plans.
 - d. Measure 4-2.1 Wood Purchases (pg 27)
 - i. Canfor purchased 224,731 m3 from private enterprises in 2007-2008
 - e. Measure 4-2.2 First-Order Wood Products (pg 28)
 - i. The number of first-order wood products produced in the Mackenzie DFA is 7.
 - f. Measure 4-2.3 Local Investment (pg 28)

- i. Exclusive of stumpage, 98.9% of the money spent on forest operations and management on the DFA is provided by northern central interior suppliers.

g. Measure 6-1.3 Business Opportunities (pg 36)

- i. Canfor provided 30 non-tendered opportunities for forest management activities to businesses within or immediately adjacent to the TSA.

h. Measure 7-2.1 Concerns (affected parties)

- i. This measure lists the types of opportunities not the total number of occurrences. Currently, there are at least 8 different ways to give the public and stakeholders an opportunity to express forestry-related concerns and be involved in SFM planning processes.

6. PAG Representatives had a general discussion on the Annual Report.

7. PAG Representatives accepted the 2007-2008 Annual Report as presented.

3. Research Updates

1. Tree Species Composition in Unmanaged and Managed Forests in the Mackenzie DFA

a. Rob McCann (Wildlife Infometrics Inc.)

b. See attached presentation.

c. Discussion:

- i. The inventory data used in the analysis was not current enough to account for impact of MPB attack.
- ii. PAG concern that the definition of “managed stand” captured more than just stands that were harvested and replanted. Using an age definition for managed stands includes some data for older stands harvested and then regenerated naturally.

2. Coarse Woody Debris Report

a. Tim Sproule provided an update on the Coarse Woody Debris report recently completed by Wildlife Infometrics Inc.

b. See attached report.

c. This report is based on a review of current baseline targets established by provincial legislation and those established as components of other SFM Plans in BC.

d. There is a natural range of variability of coarse woody debris (Table 5).

e. General management recommendations are provided in the report (Pg 18).

f. A next step for the licensee and BCTS is to establish the volume of CWD currently present on a block pre-harvest and post-harvest.

g. The licensee and BCTS will investigate a process to ensure that a higher level of scrutiny be placed on the amount of CWD left on a block post-harvest. There is the potential to undertake a Coarse Woody Debris Investigation within the Mackenzie Timber Supply Area.

3. **Non-Timber Forest Products Report**

a. Tim Sproule provided an update on the Non-timber Forest Products (NFTP) report recently completed by Angela Parnell.

b. See attached report.

c. A list of potential NFTP's is provided.

d. The licensee and BCTS welcome comments from the PAG on the NFTP's listed or missing from this report.

4. **Peak Flow Analysis Update**

1. See attached Table.

Action Item #3: A watershed map (8.5 x 11) will be provided to PAG members showing the watersheds found in the peak flow table.

2. The licensee and BCTS will be using this information to establish a process for determining when to involve a hydrologist in the harvest planning within certain watersheds.

3. PAG concerns regarding the details provided in the Annual Report. For example, Indicator 1-2.7 Sedimentation does not give the total number of monitoring reports compiled in the reporting period. It just gives the number of the identified unnatural sediment occurrences.

4. BCTS and Canfor described the processes in place for stream crossing inspections, reporting and road use & maintenance responsibilities.

5. **CI Matrix Update**

Action Item #4: LSC to provide PAG members with a copy of the *Mackenzie LRMP Objectives cross referenced to the SFMP Measures* document prepared for the May 27th meeting.

1. Measure 1-1.1: Percent area of old and mature + old seral stage by landscape unit group and BEC variant for CFLB within the DFA.

a. Proposal from LSC to revise the wording of the measure to *Percent area of old seral stage by landscape unit group and BEC group for CFLB within the DFA.*

b. Discussion

i. PAG wondered if the oldest forests are differentiated and reserved

- ii. PAG did not achieve consensus on the proposed change to the wording of the measure
- iii. In order to have an informed discussion on revising this measure the PAG is interested in knowing
 - the percentages of mature forest needed for old growth recruitment in each LU/BEC group and
 - how the MPB attacked stands affect the targets for Old Seral.
- iv. Discussion deferred to the next PAG meeting

2. Measure 1-1.2: Percent of interior old forest by landscape unit group and BEC variant for CFLB within the DFA.

a. Proposal from LSC to revise the wording of the measure to *Percent of interior old forest by landscape unit group and BEC group for CFLB within the DFA.*

b. Discussion

- i. In order to have an informed discussion on revising this measure the PAG is interested in knowing
 - the percentages of mature forest needed for old growth recruitment in each LU/BEC group and
 - how the MPB attacked stands affect the targets for Old Seral.
- ii. Discussion deferred to the next PAG meeting

3. Measure 1-2.5 and 2-3.4 Trend toward unmanaged species composition on managed stands by BEC zone on the THLB.

a. Proposal from LSC to remove this indicator from the matrix.

b. Discussion:

- i. PAG members had concerns about a harvest block on Tony Point, and the birch component was logged and burnt on the landing before it was processed.

Action Item #5: LSC to provide information to PAG on the situation with this harvest block on Tony Point.

c. PAG consensus on removing Measure 1-2.5 and Measure 2-3.4 from the Criteria and Indicator Matrix

Action Item #6: LSC to provide updated C&I Matrix to PAG members in advance of the next PAG meeting.

6. Actions updated

1. See Action Table (below)
2. Action ID - Mar 28 -03: Coarse Woody Debris report and recommendations presented at this meeting. Action completed.
3. Action ID - April 29-02: With approval of the revised Terms of Reference, The mileage rate is now set at the provincial government rate. Action completed.
4. Action ID - April 29-03: Ongoing.
5. Action ID - April 29-04: Ongoing.
6. Action ID - April 29-05: SFM Plan comments due May 29, 2008. Action completed.
7. Action ID - May 27-01: Action complete.
8. Action ID - May 27-02: The “accidental fire” referenced in Measure 2-5.1 of the 2006-2007 Annual Report was in fact a natural lightning-caused fire. The 2006-2007 Annual Report has been revised. Action complete.
9. Action ID - May 27-03: Ongoing.

7. Other

1. Canfor Audit Update
 - a. See handout
 - b. A number of CSA-related Non-conformities were noted:
 - i. Current Status has not yet been established and reported by Canfor for a number of measures
 - ii. Management strategies designed to targets have not been established and implemented for a number of measures.
 - iii. Problems achieving quorum at PAG meetings.
 - iv. Progress towards or achievement of performance targets (in the 2006/07 Annual Report, 18 of 75 measures were not met within the prescribed variances).
 - c. A CSA-related Opportunity for Improvement was noted:
 - i. The SFM Plan contains a number of measures and targets that the operation will find difficult to meet as a result of the recent curtailment of operations. However, the organization has yet to conduct a risk assessment to determine those targets which would be most negatively impacted by the shutdown and develop an associated action plan to address this.

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8. PAG Meeting Feedback (PAG questionnaire): Mackenzie SFMP PAG questionnaire distributed, completed, and collected.

9. Next meeting(s):

Date: January 21, 2009

Agenda: C&I Matrix Refinement

Time: 10:00 AM – 4:00 PM

Place: Mackenzie Recreation Centre

10. Actions

ID#	ACTION	WHO	DEADLINE	STATUS
Mar 28 -03	Develop interim targets for Coarse Woody Debris (CWD) and review with PAG	Steering Committee	September 2008	Complete
April 29-02	Determine an equitable rate for travel mileage reimbursement.	Licensee Steering Committee	Next Meeting	Complete
April 29-03	Work with PAG representatives and others in the community to find new/replacement PAG representatives.	Licensee Steering Committee	Next Meeting	Ongoing
April 29-04	Investigate the possibility of Green Energy participating in the Mackenzie SFM process.	Licensee Steering Committee	Next Meeting	Ongoing
April 29-05	Comments on SFM Plan to be directed to the PAG Facilitator (Dwight Scott Wolfe – MacPAG@Tesera.com).	PAG	May 29, 2008	Complete
May 27-01	Contact absent PAG members and seek input/consensus on decisions made by PAG representatives that attended the April 29 th and May 27 th meetings.	PAG Facilitator	Next Meeting	Complete
May 27-02	Provide additional information in the Annual Report (Measure 2-5.1) on the nature and location of the accidental fires that occurred in their operating area in 2006 – 2007.	BCTS	Next Meeting	Complete
May 27-03	Add a non-timber benefits issue to the Continuous Improvement Matrix.	Licensee Steering Committee	Next Meeting	Ongoing

Mackenzie SFMP PAG Meeting Summary - October 28, 2008

ID#	ACTION	WHO	DEADLINE	STATUS
Oct 28-01	Contact potential Sector representatives / alternates to discuss process and solicit interest.	Facilitator	Before Next Meeting	
Oct 28-02	Provide PAG members with a copy of the <i>Landscape Objectives Order for the Mackenzie TSA</i>	Licensee Steering Committee	Next Meeting	
Oct 28-03	Provide PAG members with a watershed map (8.5 x 11) showing the watersheds found in the peak flow table.	Licensee Steering Committee	Next Meeting	
Oct 28-04	Provide PAG members with a copy of the <i>Mackenzie LRMP Objectives cross referenced to the SFMP Measures</i> document prepared for the May 27th meeting.	Licensee Steering Committee	Next Meeting	
Oct 28-05	Provide PAG members with information on the situation with this harvest block on Tony Point.	Licensee Steering Committee	Next Meeting	
Oct 28-06	Provide PAG members with updated C&I Matrix	Licensee Steering Committee	Before Next Meeting	



Mackenzie SFMP



PAG Meeting

January 21, 2009

10:00 AM – 4:00 PM

Conference room (2nd flr)

Mackenzie Recreational Centre

Agenda

1. Welcome & Introductions
2. Review Agenda
3. Evaluation Results (October 28, 2008)
4. Approve Minutes (October 28, 2008)
5. Audit Results – Canfor and BCTS
6. Review Revised 2007-2008 Annual Report
 - - - 12:00 Lunch - - - -
7. Review Revised 2007-2008 Annual Report continued
 - - - - 2:30 Break - - - -
8. Review SFM Performance Matrix
9. Mackenzie SFMP Direction
10. Other
 - a. Tony Point Block
11. Update on Actions
12. Expense Forms
13. Meeting Evaluation
14. Next Meeting

*Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, January 16, 2009, if you plan on attending this meeting.*



Meeting Summary

Attendance:

<i>Public Advisory Group:</i> Teena Demeulemeester Tom Briggs Vi Lambie Lionel Chingee Josef Kollbrand	<i>Steering Committee & Advisors:</i> Dan Szekely - Canfor Darwyn Koch - BCTS
<i>Facilitator & Scribe:</i> Dwight Scott Wolfe (Tesera Systems Inc.)	<i>Observers:</i> Shaun Kuzio – Abitibi-Bowater Aaron Snively Ron Crosby

1. Welcome & Introductions

1. Members signed in.
2. Welcome by the Chair of the Steering Committee [Darwyn Koch].
 - a. Shaun Kuzio from Abitibi-Bowater was introduced as an observer
 - b. Aaron Snively is a potential alternate for the *Recreation – Non-commercial* sector
 - c. Ron Crosby is a potential representative for the *Woodlots* sector
3. Confirmed agenda
 - a. Under Section 10 (Other): Add “BCTS Blocks”
4. Meeting evaluation results for October 28, 2008 meeting reviewed.
 - a. The following meeting scores were below target:
 - i. MQ5 - Meeting Actions updated
 - ii. MQ6 - Meeting time allocated wisely
 - iii. MQ10 - Amount & timing of information presented
 - iv. FQ3 – Facilitator kept the meeting moving
 - v. FQ6 – Facilitator tolerated and addressed conflict
 - b. The following meeting comments were received:

- i. · Meeting room too cold.
- ii. · Continue presentations as requested – helps me keep up to speed.
- iii. · Find solutions faster on problems.
- iv. · Room cold.
- v. · Follow up on suggestions for new PAG members.

5. Minutes of the October 28, 2008 meeting accepted as written.

2. Audit Results

1. Canfor

- a. Indicator Current Status was not available at the time of the audit.
- b. Most Opportunities for improvement have been addressed.
- c. Request from PAG for a copy of Canfor's Caribou Management Strategies.
- d. PAG discussed coverage in the TSA for current Caribou Management Strategies and the Caribou Recovery Plan, noting that the Kennedy Herd is identified as Mountain Caribou.
- e. Dale Seip (MoFR) has developed a recovery plan for the Kennedy Herd.
- f. More information is available at the Muskwa-Kechika website:
<http://www.muskwa-kechika.com/>
- g.

Action Item 1: Canfor to redistribute Audit report to PAG representatives.

2. BCTS

- a. BCTS and Canfor use the same external auditing firm.
- b. There was the same Opportunity for Improvement as Canfor regarding Indicator Current Status not being available.
- c. The Auditor also felt that PAG was not given adequate time to review and comment of the Annual Report.
- d. The focus for this audit was Free-growing compliance.
- e. It was noted that winter is not the best time for an audit. The audit schedule is tied to the date of the initial certification audit.
- f. BCTS would like to see external audits happen in the summer to allow for a broader scope of operations. The ideal would be to have an internal audit in the spring and an external audit late summer.

Action Item 2: BCTS and Canfor to provide copies of their Caribou Management Strategies to PAG representatives.

3. Review of Revised Annual Report

Darwyn Koch provided a review of the revised 2007-2008 Annual Report.

1. The Revised Annual Report was distributed and is also available on the BCTS Website:
http://www.for.gov.bc.ca/ftp/TPG/external/!publish/SFMS/Mackenzie_SFMP/Annual%20Report/
2. A *Summary of Changes* document was also distributed.
3. Darwyn reviewed the changes to measures and noted reasons for the change and specific actions resulting from the change.
4. Executive Summary (pg 2):
 - a. 84 measures were met; 7 measures pending; 18 measures not met.
5. *Summary of Changes* included:
 - a. Measure 1-1.1 Old Forest (pg 5)
 - i. Target changed to “met”. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
 - ii. One LU Grouping cannot meet Old Growth target in the short/medium term.
 - iii. LSC is considering revising the LU groupings to reflect those actively managed by the plan proponents.
 - iv. LSC is considering revising the indicator statement.
 - v. Operating Areas include LU Groups even if there isn’t any Old Forest and recruitment strategies are required.
 - vi. Five small Management Units from the LRMP were combined into one LU Group.
 - b. Measure 1-1.2 Interior Old Forest (pg 5)
 - i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
 - ii. There is a provision in the Government Order for small patches to allow amalgamation of Interior Forests across LU Group boundaries.
 - c. Measure 1-2.1 Patch Size (pg 7)
 - i. Target changed to “met”. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
 - ii. LSC is considering revising the indicator to indicate a “trending toward” target.

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d. Measure 1-2.2 Coarse Woody Debris (pg 10)

- i. Corrected the data for BCTS.

e. Measure 1-2.3 Wildlife Tree Patch Requirements (pg 10)

- i. Target changed to “met”. BCTS – upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report

f. Measure 1-2.4 Riparian Management Area Effectiveness (pg 11)

- i. Updated the data in the table. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.

g. Measure 1-2.6 Caribou Ungulate Winter Range Effectiveness (pg 12)

- i. Target changed to “met”. BCTS – upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report.

h. Measure 1-2.9 Peak Flow Index (pg 13)

- i. Target changed to “pending”. In the 2008-09 report, the target will be recorded as “met”.

i. Measure 1-2.10 Road Re-vegetation (pg 13)

- i. Updated the data in the table. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.

j. Measure 1-2.12 Road Environmental Risk Assessments (pg 14)

- i. Target changed to “met”. BCTS – upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report.

k. Measure 1-3.2 Species at Risk Identification (pg 14)

- i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.

l. Measure 1-3.4 LRMP Wildlife Management (pg 15)

- i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.

m. Measure 1-3.5 Species at Risk Management Effectiveness (pg 16)

- i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.

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- n. Measure 1-4.3 Sites of Biological Significance Identification (pg 19)
 - i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
- o. Measure 1-4.5 Sites of Biological Significance Effectiveness (pg 20)
 - i. Updated the data in the table.
- p. Measure 2-1.2 Soil Conservation Effectiveness (pg 21)
 - i. Updated the data in the table.
- q. Measure 2-1.3 Terrain Management Effectiveness (pg 21)
 - i. Updated the data in the table.
- r. Measure 2-1.4 Reportable Spills (pg 22)
 - i. Updated the data in the table.
- s. Measure 2-5.2 Risk Factor Management (pg 25)
 - i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
- t. Measure 4-1.2 Waste and Residue (pg 27)
 - i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
- u. Measure 4-5.1 Competitive Sale of Timber (pg 33)
 - i. Target changed to “met”. BCTS – upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report.
- v. Measure 5-1.3 Range Management Effectiveness (pg 35)
 - i. Updated the data in the table.
- w. Measure 6-1.3 Business Opportunities (pg 37)
 - i. Updated the data in the table.
- x. Measure 7-1.2 SFM Review (PAG) (pg 38)
 - i. The SFM Plan was not reviewed during the reporting period.
- y. Measure 7-1.4 Satisfaction (PAG) (pg 39)
 - i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
- z. Measure 7-1.5 TOR Review (PAG) (pg 40)

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- i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
 - aa. Measure 7-1.8 Communication (PAG) (pg 41)
 - i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
 - bb. Measure 7-2.3 Response to concerns (pg 43)
 - i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary
 - cc. Measure 7-3.1 Adaptive Management (pg 46)
 - i. Target changed to “met”. BCTS – upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report.
 - dd. Measure 7.3.2 Monitoring Plan (pg 47)
 - i. Updated the data in the table.
 - ee. Measure 8-3.1 Concerns (First Nations) (pg 49)
 - i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
 - ff. Measure 8-3.2 Participation effectiveness (First Nations) (pg 50)
 - i. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
 - gg. Measure 9-1.1 Recreation (pg 51)
 - i. Updated the data in the table.
 - hh. Measure 9-2.1 Visual Quality (pg 51)
 - i. Updated the data in the table.
 - ii. Measure 9-2.2 Green-up buffers (pg 52)
 - i. Updated the data in the table.
6. PAG Representatives had a general discussion on the Annual Report.
7. PAG Representatives accepted the revised 2007-2008 Annual Report as presented.

4. SFM Performance Matrix

- 1. An updated Performance Matrix was distributed to PAG representatives.

5. Mackenzie SFM Plan Direction

1. The plan proponents propose that BCTS and Canfor adopt the Abitibi-Bowater (A-B) SFM Plan. The A-B SFM Plan is currently CSA-certified. This would result in one SFM Plan and one PAG for the entire TSA. More work would be accomplished with three plan proponents.
2. PAG concern that there is more community input into the current Canfor /BCTS SFM Plan than in the A-B SFM plan.
3. The new CSA standard requires substantially revising existing SFM Plans due to the new “Core Indicator” requirement. The plan proponents want to put their energy into revising just one SFM Plan.
4. PAG concerns with the new CSA standard reducing the overall quality of the SFM Plan.
5. Question: Can this PAG decide what they like about the Canfor / BCTS SFM Plan and keep it in the new SFM Plan. Answer: Licensees will adopt the A-B SFM Plan and revise the A-B SFM Plan for the new CSA standard.
6. PAG concern that there are distinct differences between the two plans.
7. PAG representatives interested in knowing what the new CSA Standard looks like and how the current Canfor / BCTS SFM Plan compares.
8. The A-B PAG meeting in the spring will be combined with the Canfor / BCTS PAG. A Transition Plan will be presented at that meeting.
9. A-B will also present their annual SFM Monitoring Report at the next meeting.
10. The A-B SFM Plan is available in either hard copy or on DVD.

Action Item #3: Abitibi Bowater to provide PAG members with a copy of their SFM Plan.

6. Other

1. Tony Point Block
 - a. PAG concern about Birch trees that were left on the landing and burned as birch is an important tree species for songbirds.
 - b. BCTS informed the PAG that the block was harvested during the winter of 2004-2005. There was a potential opportunity to market the birch after it was deked. There was a verbal agreement to leave the birch decks. A sub-contractor inadvertently burned the birch decks. BCTS apologized for this incident.
 - c. PAG concern about recognizing the value of birch stands for other values.
2. Mile 16 on the Forest Service Road north of Mackenzie
 - a. PAG concerns about logging practices on another block north of town

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3. Forest Investment Account (FIA) contacts for each plan proponent.
 - a. The FIA contacts for each plan proponent are: Shawn Kuzio –Abitibi Bowater; Dan Szekely- Canfor; Scott Scholefield – BCTS
 - b. All indications are there will be a FIA program in 2009-2010
 - c. New project submissions should be brought to the attention of the plan proponents.

Action Item #4: Licensee Steering Committee to provide PAG members with a list of FIA projects currently in the Land Base Investment Rationale (LBIR).

4. New PAG representatives and Alternates
 - a. PAG approved the following revisions to the list of Representatives and Alternates:
 - i. Add Aaron Snively as Alternate for Non-commercial Recreation
 - ii. Remove Brent Sinclair as Representative for Woodlots.
 - iii. Add Ron Crosby as Representative for Woodlots.
 - b. PAG suggestion to include a summary in the local paper after each PAG meeting as communication is key.

Action Item #5: Facilitator to prepare PAG binders and set up orientation session for the new Representatives/Alternates.

7. Actions updated

1. See Action Table (below)
2. Action ID - April 29-03: Ongoing.
3. Action ID - April 29-04: Ongoing.
4. Action ID - May 27-03: Ongoing.
5. Action ID – Oct 28-01: Facilitator contacted potential Sector representatives / alternates to discuss process and solicit interest. Action completed
6. Action ID – Oct 28-02: Copies of the *Landscape Objectives Order for the Mackenzie TSA* were distributed at the January 21st PAG meeting. Action completed
7. Action ID – Oct 28-03: Copies of the watershed map (8.5 x 11) showing the watersheds found in the peak flow table were distributed at the January 21st PAG meeting. Action completed
8. Action ID – Oct 28-04: Copies of the *Mackenzie LRMP Objectives cross referenced to the SFMP Measures* document were distributed at the January 21st PAG meeting. Action completed
9. Action ID – Oct 28-05: BCTS provided information on the situation with this harvest block on Tony Point at the January 21st PAG meeting. Action completed

Mackenzie SFMP PAG Meeting Summary – January 21, 2009

10. Action ID – Oct 28-06: Copies of the updated C&I Matrix were distributed at the January 21st PAG meeting. Action completed

8. PAG Meeting Feedback (PAG questionnaire): Mackenzie SFMP PAG questionnaire distributed, completed, and collected.

9. Next meeting: Date/Time/Place / Agenda - TBD

10. Actions

ID#	ACTION	WHO	DEADLINE	STATUS
April 29-03	Work with PAG representatives and others in the community to find new/replacement PAG representatives.	Licensee Steering Committee	Next Meeting	Ongoing
April 29-04	Investigate the possibility of Green Energy participating in the Mackenzie SFM process.	Licensee Steering Committee	Next Meeting	Ongoing
May 27-03	Add a non-timber benefits issue to the Continuous Improvement Matrix.	Licensee Steering Committee	Next Meeting	Ongoing
Oct 28-01	Contact potential Sector representatives / alternates to discuss process and solicit interest.	Facilitator	Before Next Meeting	Complete
Oct 28-02	Provide PAG members with a copy of the <i>Landscape Objectives Order for the Mackenzie TSA</i>	Licensee Steering Committee	Next Meeting	Complete
Oct 28-03	Provide PAG members with a watershed map (8.5 x 11) showing the watersheds found in the peak flow table.	Licensee Steering Committee	Next Meeting	Complete
Oct 28-04	Provide PAG members with a copy of the <i>Mackenzie LRMP Objectives cross referenced to the SFMP Measures</i> document prepared for the May 27th meeting.	Licensee Steering Committee	Next Meeting	Complete
Oct 28-05	Provide PAG members with information on the situation with this harvest block on Tony Point.	Licensee Steering Committee	Next Meeting	Complete
Oct 28-06	Provide PAG members with updated C&I Matrix	Licensee Steering Committee	Before Next Meeting	Complete
Jan 21-01	Redistribute Audit report to PAG representatives	Canfor	Before Next Meeting	
Jan 21-02	Provide copies of Caribou Management Strategies to PAG representatives	Licensee Steering Committee	Before Next Meeting	
Jan 21-03	Provide PAG members with a copy of the Abitibi-Bowater SFM Plan.	Licensee Steering Committee	Before Next Meeting	
Jan 21-04	Provide PAG members with a list of FIA projects currently in the Land Base Investment Rationale (LBIR).	Licensee Steering Committee	Next Meeting	
Jan 21-05	Facilitator to prepare PAG binders and set up orientation session for the new Representatives/ Alternates.	Facilitator	Before Next Meeting	



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

Public Advisory Group

Summary of Comments from April 29, 2008 PAG meeting

Meetings

- None.

Facilitator

- Thank you for the opportunity to participate.

Meeting Logistics

- Remind everyone to speak loud enough for everyone to hear.

Suggestions

- Remember we get mail once a week. Need to receive package prior to meeting BUT you did give time to review prior to discussions.
- Meeting focus.
- Time for open discussion.
- Lower quorum.

General Comments

- Very informative for me so far.



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

Public Advisory Group

Summary of Comments from May 27, 2008 PAG meeting

Suggestions

- Try to get more members to come out or get new alternates.



Mackenzie SFMP



BCTS
BC Timber Sales
Pittme George Business Area

Public Advisory Group Summary of Comments from October 28, 2008 PAG meeting

Suggestions

- Meeting room too cold.
- Continue presentations as requested – helps me keep up to speed.
- Find solutions faster on problems.
- Room cold.
- Follow up on suggestions for new PAG members.



Mackenzie SFMP



**Public Advisory Group
Jan 21/09 - Questionnaire**

Using the following scale of 1-5, please evaluate the Mackenzie SFMP Public Advisory Group process.

1=very poor, 2=poor, 3=average, 4=good, 5=very good

Meetings

Meetings had:

- 1. an agenda pre-published? _____
- 2. most members involved? _____
- 3. Steering Committee advisors prepared? _____
- 4. followed the PAG Terms of Reference? _____
- 5. actions updated? _____
- 6. time allocated wisely? _____
- 7. decisions summarized? _____
- 8. focus on consensus decision making? _____
- 9. a positive atmosphere? _____

Your overall satisfaction with the

- 10. amount & timing of information presented? _____
- 11. meetings _____
- 12. PAG process _____

Comments: _____

Facilitator

The facilitator:

- 1. strived for consensus decision-making? _____
- 2. kept the meeting focused? _____
- 3. kept the meeting moving? _____
- 4. remained neutral on content issues? _____
- 5. encouraged open communication? _____
- 6. tolerated and addressed conflict? _____
- 7. obtained technical expertise (when needed)? _____
- 8. kept meeting records? _____
- 9. actively listened? _____
- 10. came prepared and organized? _____

Comments: _____

Meetings Logistics

- 1. Was the meeting location convenient? _____
- 2. Was the timing of the meeting convenient? _____
- 3. Was the meeting room adequate? _____
- 4. Was the food and beverage good? _____

Comments: _____

Your Suggestions

Please list three things that the Steering Committee can improve upon for subsequent PAG meetings:

- 1. _____
- 2. _____
- 3. _____

General Comments (please write on back)

Please indicate who you are:

- Public
- First Nation
- Advisor
- Observer
- Other



Mackenzie SFMP



**Public Advisory Group
Jan 21/09 - Questionnaire**

Using the following scale of 1-5, please evaluate the Mackenzie SFMP Public Advisory Group process.

1=very poor, 2=poor, 3=average, 4=good, 5=very good

Meetings

Meetings had:

- 1. an agenda pre-published? _____
- 2. most members involved? _____
- 3. Steering Committee advisors prepared? _____
- 4. followed the PAG Terms of Reference? _____
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- 6. time allocated wisely? _____
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- 8. focus on consensus decision making? _____
- 9. a positive atmosphere? _____

Your overall satisfaction with the

- 10. amount & timing of information presented? _____
- 11. meetings _____
- 12. PAG process _____

Comments: _____

Facilitator

The facilitator:

- 1. strived for consensus decision-making? _____
- 2. kept the meeting focused? _____
- 3. kept the meeting moving? _____
- 4. remained neutral on content issues? _____
- 5. encouraged open communication? _____
- 6. tolerated and addressed conflict? _____
- 7. obtained technical expertise (when needed)? _____
- 8. kept meeting records? _____
- 9. actively listened? _____
- 10. came prepared and organized? _____

Comments: _____

Meetings Logistics

- 1. Was the meeting location convenient? _____
- 2. Was the timing of the meeting convenient? _____
- 3. Was the meeting room adequate? _____
- 4. Was the food and beverage good? _____

Comments: _____

Your Suggestions

Please list three things that the Steering Committee can improve upon for subsequent PAG meetings:

- 1. _____
- 2. _____
- 3. _____

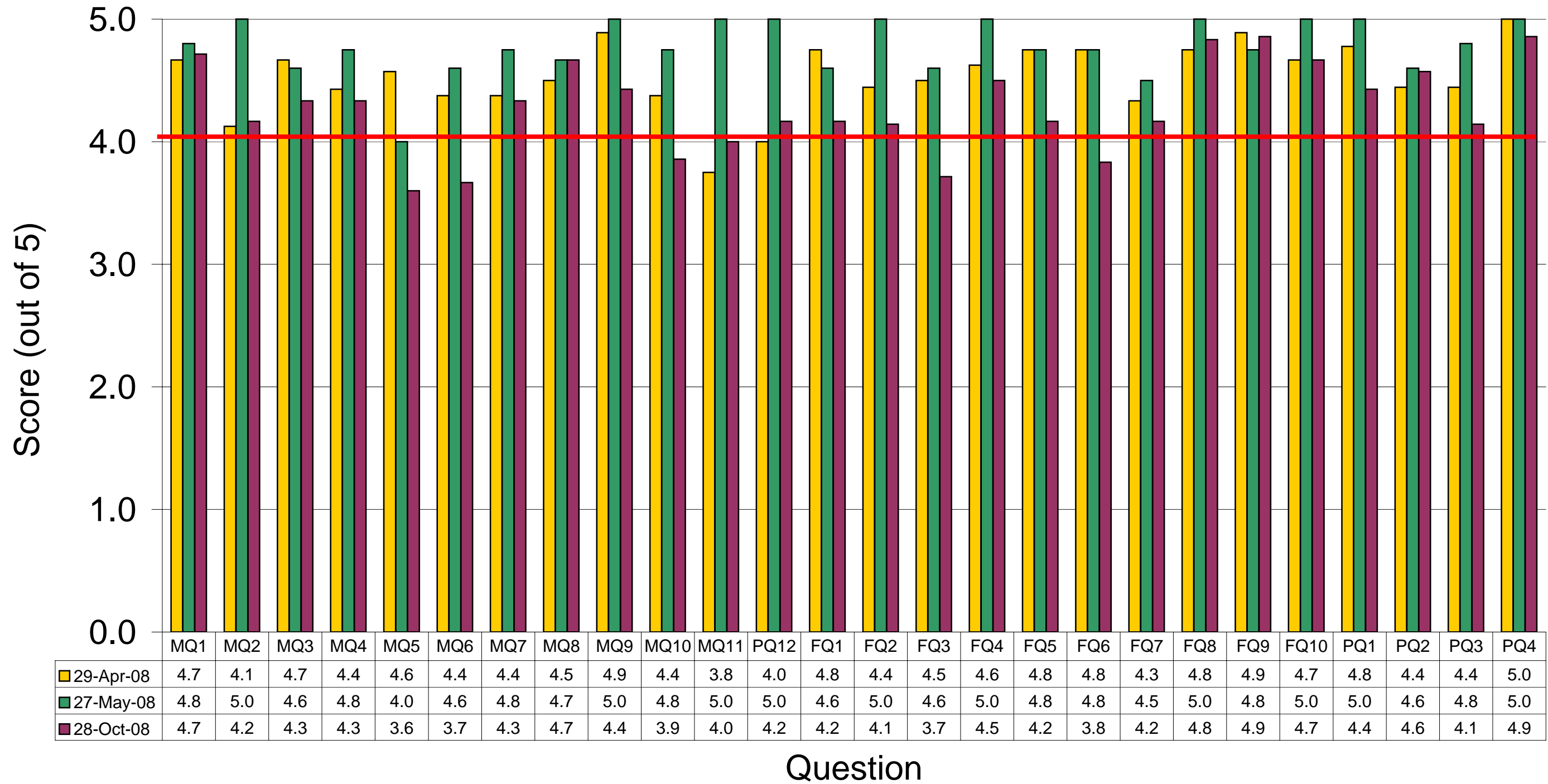
General Comments (please write on back)

Please indicate who you are:

- Public
- First Nation
- Advisor
- Observer
- Other

Mackenzie SFMP PAG

Meeting Evaluation Summary 2008-09



Sustainable Forest Management Plan

Public Advisory Group Meeting

You are invited to participate our next Public Advisory Group (PAG) meeting. There will be an opportunity to review and comment on the 2007-2008 Annual Report which highlights sustainability of ecological, economic, and social values. As well there will be information on:

- Canfor and BC Timber Sales' Sustainable Forest Management Plan,
- the PAG which assists in developing and monitoring the SFMP,
- opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues.

Robert McCann (Wildlife Infometrics) will also be presenting on and be available to answer questions about tree species composition in the Mackenzie Defined Forest Area.

To learn more about the PAG or if you are interested in attending the meeting please contact the facilitator, Dwight Scott Wolfe,
phone: 250-614-3122 or MacPAG@tesera.com
by noon on Friday, October 24, 2008

We look forward to seeing you on the 28th

9:00 am to 4:00 PM ~ October 28, 2008
Mackenzie Recreation Centre (upstairs)



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

Mackenzie SFMP Public Advisory Group

(as of March 31, 2009)

Sector:	Representative	Alternate
Academia		
Agriculture/Ranching	Ken Reiersen	
Contractors – Forestry		
Environment/ Conservation	Vi Lambie	Ryan Bichon
First Nations		
General Public	Tom Briggs	
Germansen Landing	Nancy Perreault	
Labour – CEP		
Labour – PPWC		
Local Government	Stephanie Killam	Warren Waycheshen
McLeod Lake Indian Band	Keinan Carty	Lionel Chingee
Mining/Oil & Gas	Tom Michael	
Noostel Keyoh	Jim Besherse	Sadie Jarvis
Public Health & Safety	MaryAnne Arcand	Keith Playfair
Recreation – Commercial		
Recreation – Non-commercial	Vida Tattrie	Aaron Snively
Recreation – Non-commercial (motorized)	Mike Broadbent	
Saulteau First Nation	Chief Harley Davis	Monica Rice
Small Business – Germansen Landing	Janet Besherse	Don Jarvis
Small Business – Mackenzie	Bruce Bennett	
Small Community	Mary Reiersen	
Trapping	Lawrence Napier	Josef Kollbrand
West Moberly First Nation	Teena Demeulemeester	Max Desjarlais
Woodlot	Ron Crosby	

Last Name	First Name	Mailing Address	Community	Postal Code
Alexander	Carlyn	General Delivery	Manson Creek, BC	V0J 2H0
Arcand	MaryAnne		Prince George, BC	
Armstrong-Whitworth	Tanja		Mackenzie, BC	V0J 2C0
Bennet	Bruce	Box 955, 300 Oslinka Blvd.	Mackenzie, BC	V0J 2C0
Besherse	Jim	General Delivery	Germansen Landing, BC	V0J 1T0
Besherse	Janet	General Delivery	Germansen Landing, BC	V0J 1T0
Bichon	Ryan	General Delivery	McLeod Lake, BC	V0J 2G0
Botrakoff	Mel	P.O. Bag 340, 1 Mackenzie Boulevard	Mackenzie, BC	V0J 2C0
Briggs	Tom	Box 966	Mackenzie, BC	V0J 2C0
Broadbent	Mike	PO Box 398 Osilinka St.	Mackenzie, BC	V0J 2C0
Carty	Keinan	General Delivery	McLeod Lake, BC	V0J 2G0
Chingee	Lionel	General Delivery	McLeod Lake, BC	V0J 2G0
Davis	Clayton	PO Box 330	Moberly Lake, BC	V0C 1X0
Davis	Chief Harley	PO Box 330	Moberly Lake, BC	V0C 1X0
Desjarlais	Max	PO Box 90	Moberly Lake, BC	V0C 1X0
French	Chief John	#345 1460 Sixth Avenue	Prince George, BC	V0L 3N2
Jarvis	Don	5570 Reed Lake Road	Prince George, BC	V2K 5N8
Jarvis	Sadie	5570 Reed Lake Road	Prince George, BC	V2K 5N8
Jeans	Dave	Box 2220	Mackenzie, BC	V0J 2C0
Jeans	Walter	Box 901	Mackenzie, BC	V0J 2C0
Kollbrand	Josef	PO Box 1679	Mackenzie, BC	V0J 2C0
Kuzio, R.P.F.	Shaun	Box 250, FFI Road	Mackenzie, BC	V0J 2C0
Lambie	Vi	PO Box 1598	Mackenzie, BC	V0J 2C0
LaVallee	Bob	503 Babine	Mackenzie, BC	V0J 2C0
Martin	Grant	Box 1637	Mackenzie, BC	V0J 2C0
McLeod	Kelsey	PO Box 59	Wonowon, BC	V0C 2N0
Michael	Tom	Bag Service 4000	Mackenzie, BC	V0J 2C0
Orr	Chief Derek	General Delivery	McLeod Lake, BC	V0J 2G0
Parker	Jamin	PO Box 398 Osilinka St.	Mackenzie, BC	V0J 2C0
Perreault	Nancy	Bag 24	Germansen Landing, BC	V0J 1T0
Pierre	Chief Johnny	Band office, #11 - 1839 First Ave	Prince George, BC	V2L 2Y8
Playfair	Keith		Prince George, BC	
PPWC (Local 18)		PO Box 398 Osilinka St.	Mackenzie, BC	V0J 2C0
Reierson	Mary	Box 2	Germansen Landing, BC	V0J 1T0

Reierson	Ken	Box 2	Germansen Landing, BC	V0J 1T0
Schneider	Michael	PO Box 405	Prince George, BC	V2L 4S2
Sinclair	Brent	Box 1276, 35 Pine Cres.	Mackenzie, BC	V0C 2C0
Steffey	Ronald	General Delivery	Germansen Landing, BC	V0J 1T0
Szabo	Arthur	Box 250, FFI Road	Mackenzie, BC	V0J2C0
Tattrie	Vida	Box 1008	Mackenzie, BC	V0J 2C0
Thomas	Chief Leonard	P.O. Box 1329	Fort St James, BC	V0J 1P0
Vander Maaten	Ludi	Bag 340, 60 Centennial Dr.	Mackenzie, BC	V0J 2C0
VanSommer	Chief Donny	Kwadacha Band Office, #207 513 Abou Street	Prince George, BC	V2M 3R8
Waycheshen	Warren	Bag 340, 60 Centennial Dr.	Mackenzie, BC	V0J 2C0
Weaver	Rob	PO Box 1143	Mackenzie, BC	V0J 2C0
Wheaton	Wayde	Box 1492	Fort St. James, BC	V0J 1P0
Whitford	Chief Ed	PO Box 59	Wonowon, BC	V0C 2N0
Willson	Chief Roland	PO Box 90	Moberly Lake, BC	V0C 1X0



Mackenzie SFMP



January 14, 2009

Chief Dolly Abraham
Takla Lake First Nation
General Delivery
Takla Landing, BC V0J 1T0

Dear Chief Abraham;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

The 2007-2008 annual report is finalized and is posted on the BCTS website. As well, the signed off version of the SFMP is posted. http://www.for.gov.bc.ca/ftp/TPG/external!/publish/SFMS/Mackenzie_SFMP/
PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

- Information sharing between Canfor, BCTS, & the public
- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues."

Action Requested: If you haven't done so already, please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Chief Derek Orr
McLeod Lake Indian Band
General Delivery
McLeod Lake, BC, V0J 2G0

Dear Chief Orr;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

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Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Chief Donny VanSomer
Kwadacha Band Office
#207 513 Aubau St.
Prince George, BC V2M 3R8

Dear Chief VanSomer;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

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A statement from Canfor:

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A message from the Steering Committee:

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Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Chief Ella Pierre
Tsay Keh Dene Band
Apt. 11 - 1839 1st Ave.
Prince George BC V2L 2Y8

Dear Chief Pierre;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

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A statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

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Action Requested: If you haven't done so already, please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

A handwritten signature in black ink that reads "Dwight Scott Wolfe".

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Chief Ed Whitford
Halfway River First Nation
PO Box 59
Wonowon, BC V0C 2N0

Dear Chief Whitford;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

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A statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A message from the Steering Committee:

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Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Chief Fred Sam
Nak'azdli First Nation
P.O. Box 1329
Ft. St. James, BC V0J 1P0

Dear Chief Sam;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

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A statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A message from the Steering Committee:

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Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

January 14, 2009

Chief Harley Davis
Saulteau First Nations
PO Box 330
Moberly Lake, BC V0C 1X0

Dear Chief Davis;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

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A statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

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- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues."

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Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Chief Jerry Asp
Tahltan First Nation
Box 46
Telegraph Creek, BC V0J 2W0

Dear Chief Asp;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

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PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A statement from Canfor:

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A message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

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Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Chief Rena Benson
Gitxsan Nation (Nii Kyap)
PO Box 128
Kitwanga, BC V0J 2A0

Dear Chief Benson;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

The 2007-2008 annual report is finalized and is posted on the BCTS website. As well, the signed off version of the SFMP is posted. http://www.for.gov.bc.ca/ftp/TPG/external!/publish/SFMS/Mackenzie_SFMP/
PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

- Information sharing between Canfor, BCTS, & the public
- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues."

Action Requested: If you haven't done so already, please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Chief Roland Willson
West Moberly First Nation
PO Box 90
Moberly Lake, BC V0C 1X0

Dear Chief Willson;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

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Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



December 12, 2008

Chief Dolly Abraham
Takla Lake First Nation
General Delivery
Takla Landing, BC V0J 1T0

Dear Chief Abraham;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda will be sent out early in the New Year. The draft minutes from the October 28th meeting are attached. The 2007-2008 annual report is finalized and is posted on the BCTS website. As well, the signed off version of the SFMP is posted.

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Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

A handwritten signature in black ink that reads "Dwight Scott Wolfe".

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

December 12, 2008

Chief Derek Orr
McLeod Lake Indian Band
General Delivery
McLeod Lake, BC, V0J 2G0

Dear Chief Orr;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM Location: Conference Room (2nd floor), Recreation Center, Mackenzie

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Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



December 12, 2008

Chief Donny VanSomer
Kwadacha Band Office
#207 513 Aubau St.
Prince George, BC V2M 3R8

Dear Chief VanSomer;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM Location: Conference Room (2nd floor), Recreation Center, Mackenzie

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Operations Manager, Tesera Systems Inc.
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Mackenzie SFMP



December 12, 2008

Chief Ed Whitford
Halfway River First Nation
PO Box 59
Wonowon, BC V0C 2N0

Dear Chief Whitford;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM Location: Conference Room (2nd floor), Recreation Center, Mackenzie

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Mackenzie SFMP



December 12, 2008

Chief Fred Sam
Nak'azdli First Nation
P.O. Box 1329
Ft. St. James, BC V0J 1P0

Dear Chief Sam;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

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Mackenzie SFMP



December 12, 2008

Chief Harley Davis
Saulteau First Nations
PO Box 330
Moberly Lake, BC V0C 1X0

Dear Chief Davis;

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Time: 10:00AM - 4:00PM Location: Conference Room (2nd floor), Recreation Center, Mackenzie

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Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

December 12, 2008

Chief Jerry Asp
Tahltan First Nation
Box 46
Telegraph Creek, BC V0J 2W0

Dear Chief Asp;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM Location: Conference Room (2nd floor), Recreation Center, Mackenzie

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Mackenzie SFMP



December 12, 2008

Chief Johnny Pierre
Tsay Keh Dene Band
Apt. 11 - 1839 1st Ave.
Prince George BC V2L 2Y8

Dear Chief Pierre;

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Mackenzie SFMP



December 12, 2008

Chief Rena Benson
Gitxsan Nation (Nii Kyap)
PO Box 128
Kitwanga, BC V0J 2A0

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Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

December 12, 2008

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West Moberly First Nation
PO Box 90
Moberly Lake, BC V0C 1X0

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Mackenzie SFMP



October 10, 2008

Chief Dolly Abraham
Takla Lake First Nation
General Delivery
Takla Landing, BC V0J 1T0

Dear Chief Abraham;

The next meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Time: 9:00AM - 4:00PM ***Note the early start time***

Location: Conference Room (2nd floor), Recreation Center, Mackenzie

Agenda: Review of 2007-2008 Annual Report plus Research Presentations.

A draft agenda is attached. The draft minutes from the May 27th meeting are also attached. PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A Statement from Canfor:

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A Message from the Steering Committee:

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A number of key items will be discussed at the next meeting including presentation of the 2007-2008 Annual Report. We look forward to seeing you on the 28th."

Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, October 24, 2008, if you plan on attending this meeting.

Sincerely,

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Operations Manager, Tesera Systems Inc.
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Mackenzie SFMP



October 10, 2008

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Tahltan First Nation
Box 46
Telegraph Creek, BC V0J 2W0

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Mackenzie SFMP



October 10, 2008

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Gitxsan Nation (Nii Kyap)
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Kitwanga, BC V0J 2A0

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Mackenzie SFMP



October 10, 2008

Chief Harley Davis
Saulteau First Nations
PO Box 330
Moberly Lake, BC V0C 1X0

Dear Chief Davis;

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Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, www.tesera.com



Mackenzie SFMP



October 10, 2008

Chief Derek Orr
McLeod Lake Indian Band
General Delivery
McLeod Lake, BC, V0J 2G0

Dear Chief Orr;

The next meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Time: 9:00AM - 4:00PM ***Note the early start time***

Location: Conference Room (2nd floor), Recreation Center, Mackenzie

Agenda: Review of 2007-2008 Annual Report plus Research Presentations.

A draft agenda is attached. The draft minutes from the May 27th meeting are also attached. PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A Statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A Message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

- Information sharing between Canfor, BCTS, & the public
- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues.

A number of key items will be discussed at the next meeting including presentation of the 2007-2008 Annual Report. We look forward to seeing you on the 28th."

Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, October 24, 2008, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, www.tesera.com



Mackenzie SFMP



October 10, 2008

Chief Johnny Pierre
Tsay Keh Dene Band
Apt. 11 - 1839 1st Ave.
Prince George BC V2L 2Y8

Dear Chief Pierre;

The next meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Time: 9:00AM - 4:00PM ***Note the early start time***

Location: Conference Room (2nd floor), Recreation Center, Mackenzie

Agenda: Review of 2007-2008 Annual Report plus Research Presentations.

A draft agenda is attached. The draft minutes from the May 27th meeting are also attached. PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A Statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A Message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

- Information sharing between Canfor, BCTS, & the public
- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues.

A number of key items will be discussed at the next meeting including presentation of the 2007-2008 Annual Report. We look forward to seeing you on the 28th."

Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, October 24, 2008, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, www.tesera.com



Mackenzie SFMP



October 10, 2008

Chief Fred Sam
Nak'azdli First Nation
P.O. Box 1329
Ft. St. James, BC V0J 1P0

Dear Chief Sam;

The next meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Time: 9:00AM - 4:00PM ***Note the early start time***

Location: Conference Room (2nd floor), Recreation Center, Mackenzie

Agenda: Review of 2007-2008 Annual Report plus Research Presentations.

A draft agenda is attached. The draft minutes from the May 27th meeting are also attached. PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A Statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A Message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

- Information sharing between Canfor, BCTS, & the public
- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues.

A number of key items will be discussed at the next meeting including presentation of the 2007-2008 Annual Report. We look forward to seeing you on the 28th."

Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, October 24, 2008, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, www.tesera.com



Mackenzie SFMP



October 10, 2008

Chief Donny VanSomer
Kwadacha Band Office
#207 513 Aubau St.
Prince George, BC V2M 3R8

Dear Chief VanSomer;

The next meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Time: 9:00AM - 4:00PM ***Note the early start time***

Location: Conference Room (2nd floor), Recreation Center, Mackenzie

Agenda: Review of 2007-2008 Annual Report plus Research Presentations.

A draft agenda is attached. The draft minutes from the May 27th meeting are also attached. PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A Statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A Message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

- Information sharing between Canfor, BCTS, & the public
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A number of key items will be discussed at the next meeting including presentation of the 2007-2008 Annual Report. We look forward to seeing you on the 28th."

Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, October 24, 2008, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, www.tesera.com



Mackenzie SFMP



October 10, 2008

Chief Ed Whitford
Halfway River First Nation
PO Box 59
Wonowon, BC V0C 2N0

Dear Chief Whitford;

The next meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Time: 9:00AM - 4:00PM ***Note the early start time***

Location: Conference Room (2nd floor), Recreation Center, Mackenzie

Agenda: Review of 2007-2008 Annual Report plus Research Presentations.

A draft agenda is attached. The draft minutes from the May 27th meeting are also attached. PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A Statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A Message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

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A number of key items will be discussed at the next meeting including presentation of the 2007-2008 Annual Report. We look forward to seeing you on the 28th."

Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, October 24, 2008, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, www.tesera.com



Mackenzie SFMP



October 10, 2008

Chief Roland Willson
West Moberly First Nation
PO Box 90
Moberly Lake, BC V0C 1X0

Dear Chief Willson;

The next meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Time: 9:00AM - 4:00PM ***Note the early start time***

Location: Conference Room (2nd floor), Recreation Center, Mackenzie

Agenda: Review of 2007-2008 Annual Report plus Research Presentations.

A draft agenda is attached. The draft minutes from the May 27th meeting are also attached. PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

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Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, October 24, 2008, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, www.tesera.com



Mackenzie SFMP



May 20, 2008

Chief Jerry Asp
Tahltan First Nation
Box 46
Telegraph Creek, BC
V0J 2W0

*Seller mailed to Mackenzie FAN
Contacts on May 20*

Dear Chief Asp;

The next meeting of the Mackenzie SFM Plan Public Advisory Group is Tuesday, May 27, 2008 10AM - 4PM in the Multipurpose Room, Recreation Centre, Mackenzie

An agenda and background materials are attached:

- MAC_PAG_agenda_052708_draft
- PAG Meeting Summary - April 29 2008 draft
- Mac PAG ToR - April 29, 2008 - draft
- DMKVLI_MAIN_PAG

The latest version of the SFM Plan and the Species Composition Report will be sent separately.

If you haven't done so already, please RSVP and let me know if you will be attending as we need a quorum for the meeting.

Sincerely,

--
Dwight Scott Wolfe, RPF
Operations Manager
Tesera Systems Inc.
250.614.3122 tel
866-698-8789 toll free
250.964.4037 fax
www.tesera.com



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

PAG Meeting

April 29, 2008
10:00 AM - 4:00 PM
Mackenzie Curling Rink
(Lounge)

Agenda

1. Welcome & Introductions
2. Review Agenda
3. Approve Minutes (March 28, 2007 and March 13, 2008)
4. Review of Terms of Reference
5. Presentation of refined SFM Plan
- 12:00 Lunch ----
6. SFM Plan presentation (cont'd)
7. Presentation of Species Composition Report
8. PAG Representation - membership
- 10 min. Break ----
9. Action Table
10. Other
 - a.
11. Expense Forms
12. Meeting Evaluation
13. Next Meeting

Copy of Letter sent to FN!

- Tahltan - Chief App*
- Gitsan - Chief Benson*
- West Moberly - Chief Willson*
- Halfway River - Chief Hunter*
- Tsay Keh Dene - Chief Pierre*
- Takla Lake - Chief Abraham*
- Saulteau - Chief Davis*
- Nak'azdli - Chief Sam*
- McLeod Lake - Chief Chingge*
- Kwada'achan - Chief van Smer*

Notes

Please contact the facilitator, Dwight Scott Wolfe, (phone 614-3122 or MacPAG@tesera.com) by noon on Friday, April 25, 2008, if you plan on attending this meeting.



Mackenzie SFMP



April 10, 2008

Chief Rena Benson
Gitksan Nation (Nii Kyap)
PO Box 128
Kitwanga, BC V0J 2A0

Dear Chief Benson;

The next meeting of the Mackenzie SFM Plan Public Advisory Group is Tuesday, April 29, 2008.
10 AM – 4 PM
Curling Rink Lounge, Mackenzie
Agenda: Review Terms of Reference and Annual Report

A formal agenda will be circulated shortly.

Please RSVP and let me know if you will be attending as we need a quorum for the meeting.

Sincerely,

Copy of Letter Sent to FN:

Dwight Scott Wolfe, RPF
Operations Manager
Tesera Systems Inc.
MacPAG@tesera.com
250.614.3122 tel
866-698-8789 toll free
250.964.4037 fax
www.tesera.com

*Tahltan - Chief Asp
Gitksan - Chief Benson
Westmoberly - Chief Willson
Halfway River - Chief Hunter
TsaykehDene - Chief Pierre
Talakla Lake - Chief Abraham
Saulteau - Chief Apsassin
Nak'azdli - Chief Sam
McLeod Lake - Chief Chingee
Kwadacha - Chief VanSommer*



Mackenzie SFMP



January 14, 2009

Bruce Bennett
Box 955
Mackenzie, BC V0J 2C0

Dear Bruce;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

The 2007-2008 annual report is finalized and is posted on the BCTS website. As well, the signed off version of the SFMP is posted. http://www.for.gov.bc.ca/ftp/TPG/external!/publish/SFMS/Mackenzie_SFMP/

PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

- Information sharing between Canfor, BCTS, & the public
- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues."

Action Requested: If you haven't done so already, please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Jim & Janet Besherse
General Delivery
Germansen Landing, BC V0J 1T0

Dear Jim and Janet;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

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- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues."

Action Requested: If you haven't done so already, please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

A handwritten signature in black ink that reads "Dwight Scott Wolfe".

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

January 14, 2009

Max Desjarlais
West Moberly First Nation
PO Box 90
Moberly Lake, BC V0C 1X0

Dear Max;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

The 2007-2008 annual report is finalized and is posted on the BCTS website. As well, the signed off version of the SFMP is posted. http://www.for.gov.bc.ca/ftp/TPG/external!/publish/SFMS/Mackenzie_SFMP/

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Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Don & Sadie Jarvis
5570 Reed Lake Road
Prince George BC V2K 5N8

Dear Don and Sadie;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

The 2007-2008 annual report is finalized and is posted on the BCTS website. As well, the signed off version of the SFMP is posted. http://www.for.gov.bc.ca/ftp/TPG/external!/publish/SFMS/Mackenzie_SFMP/

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A statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A message from the Steering Committee:

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- Information sharing between Canfor, BCTS, & the public
- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues."

Action Requested: If you haven't done so already, please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Walter Jeans
Box 901
Mackenzie, BC V0J 2C0

Dear Walter;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

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A statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A message from the Steering Committee:

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- Information sharing between Canfor, BCTS, & the public
- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues."

Action Requested: If you haven't done so already, please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

A handwritten signature in black ink that reads "Dwight Scott Wolfe".

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



January 14, 2009

Tom Michael
Bag Service 4000
Mackenzie, BC V0J 2C0

Dear Tom ;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

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Action Requested: If you haven't done so already, please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

A handwritten signature in black ink that reads "Dwight Scott Wolfe".

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

January 14, 2009

Nancy Perreault
Bag 24
Germansen Landing, BC V0J 1T0

Dear Nancy;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM. Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda is attached. The draft minutes from the October 28th meeting are also attached. An updated SFM Performance Matrix is also attached.

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A statement from Canfor:

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Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

December 12, 2008

Bruce Bennett
Box 955
Mackenzie, BC
V0J 2C0

Dear Bruce;

The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Time: 10:00AM - 4:00PM Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda will be sent out early in the New Year. The draft minutes from the October 28th meeting are attached. The 2007-2008 annual report is finalized and is posted on the BCTS website. As well, the signed off version of the SFMP is posted.

http://www.for.gov.bc.ca/ftp/TPG/external/!publish/SFMS/Mackenzie_SFMP/

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Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, January 16, 2009, if you plan on attending this meeting.

Sincerely,

A handwritten signature in black ink that reads "Dwight Scott Wolfe".

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Mackenzie SFMP



December 12, 2008

Jim & Janet Besherse
General Delivery
Germansen Landing, BC V0J 1T0

Dear Jim and Janet;

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Time: 10:00AM - 4:00PM Location: Conference Room (2nd floor), Recreation Center, Mackenzie

A draft agenda will be sent out early in the New Year. The draft minutes from the October 28th meeting are attached. The 2007-2008 annual report is finalized and is posted on the BCTS website. As well, the signed off version of the SFMP is posted.

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PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

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Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

December 12, 2008

Max Desjarlais
West Moberly First Nation
PO Box 90
Moberly Lake, BC V0C 1X0

Dear Max;

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Mackenzie SFMP



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5570 Reed Lake Road
Prince George BC
V2K 5N8

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Mackenzie SFMP



December 12, 2008

Walter Jeans
Box 901
Mackenzie, BC
V0J 2C0

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Mackenzie SFMP



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Tom Michael
Bag Service 4000
Mackenzie, BC
V0J 2C0

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Mackenzie SFMP



December 12, 2008

Nancy Perreault
Bag 24
Germansen Landing, BC
V0J 1T0

Dear Nancy;

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250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, macpag@tesera.com



Dwight Wolfe <dwight.wolfe@tesera.com>

MacPAG: The next meeting of the Mackenzie PAG is Wednesday, January 21, 2009.

Dwight Wolfe <dwight.wolfe@tesera.com>

Fri, Dec 12, 2008 at 1:10 PM

Cc: "Koch, Darwyn FOR:EX" <Darwyn.Koch@gov.bc.ca>, "dan. szekely" <Dan.Szekely@canfor.com>, "Sproule, Tim FOR:EX" <Tim.Sproule@gov.bc.ca>

Bcc: Brent Sinclair <sinclairb@mackbc.com>, Chief Harley Davis <hdavis@saulteau.com>, Chief Jerry Asp <pjerryasp@hotmail.com>, Dave Jeans <r19ddt@telus.net>, Grant Martin <canty_creek91@xplornet.com>, Ingo Hinz <Ingo.Hinz@canfor.com>, Jim & Janet Besherse <jbesherse@xplornet.com>, Josef Kollbrand <joskoll@telus.net>, Judi Vander Maaten <Judi@district.mackenzie.bc.ca>, Keinan Carty <kcarty@mlib.ca>, Keith Playfair <Playfair@bctrucksafe.org>, Kelsey McLeod <kelsey_mcleod@yahoo.ca>, Ken & Mary Reiersen <momsfunnyfarm@xplornet.com>, Lawrence Napier <napierlr@hotmail.com>, MaryAnne Arcand <Arcand@bctrucksafe.org>, Mel Botrakoff <mel@district.mackenzie.bc.ca>, Michael Schneider <michael@going-fishing.com>, Mike Broadbent <mrstar58@telus.net>, "PPWC (Local 18)" <ppwc18@persona.ca>, Rob Weaver <weaver00@telus.net>, Ron Steffey <moosevalley@xplornet.com>, Ryan Bichon <rbichon@mlib.ca>, Scott Scholefield <Scott.Scholefield@gov.bc.ca>, Shaun Kuzio <Shaun.Kuzio@abitibowater.com>, Stephanie Killam <stephanie@district.mackenzie.bc.ca>, Teena Demeulemeester <Forestry@westmo.org>, Tom and Karen Briggs <teekay74@telus.net>, Vi Lambie <jlambie@telus.net>, Vida Tattrie <vireo@mackbc.com>, Warren Waycheshen <info@district.mackenzie.bc.ca>

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DSW

--

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager
Tesera Systems Inc.
250.614.3122 tel
866.698.8789 toll free
250.564.0393 fax
www.tesera.com

Cochrane	Prince George
403.932.0445 tel	250.614.3122 tel
403.932.9395 fax	250.564.0393 fax
Box 1078, Cochrane, AB, T4C 1B1	Box 2130, Prince George, BC, V2N 2J6

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PAG Meeting Summary - Oct 28, 2008 draft.pdf
60K



Mackenzie SFMP



**MACKENZIE PUBLIC ADVISORY GROUP
CONSENSUS RECORD FOR APRIL 29, 2008**

Background Information

PAG representatives in attendance at the meeting on April 29 were able to reach consensus on items discussed during the meeting. However, according to the quorum requirements of the Mackenzie PAG, representatives present at the meeting could not make a decision. This consensus record is intended to complete the task of consensus decision making on agenda items discussed at the PAG meeting held on April 29, 2008.

Please review the draft summary of the April 29th PAG meeting and answer the questions below.

Name: Teena Demetere Signature: [Signature]

1. Are you comfortable with the minutes of the March 13, 2008 meeting being accepted as written?

Yes ___ No ___

If No, please state your reason for dissent: Not in attendance.

2. Are you comfortable with the minutes of the March 28, 2007 meeting being accepted as written?

Yes No ___

If No, please state your reason for dissent: _____

3. Are you comfortable with the changes to the Terms of Reference?

Yes ___ No

If No, please state your reason for dissent: Too simple lands. It is Crown Lands. Since I am

4. Are you comfortable that this SFM Plan adequately addresses the concerns of the PAG members?

Yes ___ No

If No, please state your reason for dissent: need more ^{on the ground} sampling conducted, baseline data to measure impacts.

**FAX THIS COMPLETED RECORD TO TESERA SYSTEMS INC. 250-564-0393
Or SCAN AND EMAIL TO MACPAG@TESERA.COM by 5:00 PM FRIDAY, MAY 23, 2008**

Sustainable Forest Management Plan Public Advisory Group Meeting

You are invited to participate our next Public Advisory Group (PAG) meeting. There will be an opportunity to review and comment on the 2007-2008 Annual Report which highlights sustainability of ecological, economic, and social values. As well there will be information on:

- Canfor and BC Timber Sales' Sustainable Forest Management Plan,
- the PAG which assists in developing and monitoring the SFMP,
- opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues.

Robert McCann (Wildlife Infometrics) will also be presenting on and be available to answer questions about tree species composition in the Mackenzie Defined Forest Area.

To learn more about the PAG or if you are interested in attending the meeting please contact the facilitator, Dwight Scott Wolfe,
phone: 250-614-3122 or MacPAG@tesera.com
by noon on Friday, October 24, 2008

We look forward to seeing you on the 28th

9:00 am to 4:00 PM ~ October 28, 2008
Mackenzie Recreation Centre (upstairs)



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area



Mackenzie SFMP



October 10, 2008

Bruce Bennett
Box 955
Mackenzie, BC
V0J 2C0

Dear Bruce;

The next meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Time: 9:00AM - 4:00PM ***Note the early start time***

Location: Conference Room (2nd floor), Recreation Center, Mackenzie

Agenda: Review of 2007-2008 Annual Report plus Research Presentations.

A draft agenda is attached. The draft minutes from the May 27th meeting are also attached. PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

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October 10, 2008

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October 10, 2008

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BCTS
BC Timber Sales
Prince George Business Area

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BC Timber Sales
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October 10, 2008

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Bag 24
Germansen Landing, BC
V0J 1T0

Dear Nancy;

The next meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Time: 9:00AM - 4:00PM ***Note the early start time***

Location: Conference Room (2nd floor), Recreation Center, Mackenzie

Agenda: Review of 2007-2008 Annual Report plus Research Presentations.

A draft agenda is attached. The draft minutes from the May 27th meeting are also attached. PAG members are encouraged to invite a friend to attend this public meeting to see what we are up to. Also, if a PAG member cannot attend, please contact your alternate to see if that person can attend on your behalf.

A Statement from Canfor:

"Canfor has offered to directly offset out-of-pocket expenses normally reimbursed through expense claims by purchasing fuel for those travelling from out of town."

A Message from the Steering Committee:

"BC Timber Sales and Canfor continue to value your participation in this process and as we move through this difficult time we want to be well positioned to take advantage of new opportunities. Your ongoing participation in the Public Advisory Group provides for:

- Information sharing between Canfor, BCTS, & the public
- Input into monitoring
- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues.

A number of key items will be discussed at the next meeting including presentation of the 2007-2008 Annual Report. We look forward to seeing you on the 28th."

Action Requested: Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by **noon** on Friday, October 24, 2008, if you plan on attending this meeting.

Sincerely,

Dwight Scott Wolfe, RPF, Cert. ConRes.
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250. 564.0393 fax, www.tesera.com



Dwight Wolfe <dwight.wolfe@tesera.com>

MacPAG: The next Meeting of the Mackenzie PAG is Tuesday, October 28, 2008.

Dwight Wolfe <dwight.wolfe@tesera.com>

Fri, Oct 10, 2008 at 1:18 PM

Cc: Dan.Szekely@canfor.com, "Koch, Darwyn FOR:EX" <Darwyn.Koch@gov.bc.ca>, "Badger, Lyle FOR:EX" <Lyle.Badger@gov.bc.ca>, "Sproule, Tim FOR:EX" <Tim.Sproule@gov.bc.ca>
Bcc: Brent Sinclair <sinclairb@mackbc.com>, Chief Harley Davis <hdavis@saulteau.com>, Chief Jerry Asp <pjerryasp@hotmail.com>, Dave Jeans <r19ddt@telus.net>, Grant Martin <canty_creek91@xplornet.com>, Ingo Hinz <Ingo.Hinz@canfor.com>, Jim & Janet Besherse <jbesherse@xplornet.com>, Josef Kollbrand <joskoll@telus.net>, Judi Vander Maaten <Judi@district.mackenzie.bc.ca>, Keinan Carty <kcarty@mlib.ca>, Keith Playfair <Playfair@bctrucksafe.org>, Kelsey McLeod <kelsey_mcleod@yahoo.ca>, Ken & Mary Reiersen <momsfunnyfarm@xplornet.com>, Lawrence Napier <napierlr@hotmail.com>, MaryAnne Arcand <Arcand@bctrucksafe.org>, Mel Botrakoff <mel@district.mackenzie.bc.ca>, Michael Schneider <michael@going-fishing.com>, Mike Broadbent <mrstar58@telus.net>, "PPWC (Local 18)" <ppwc18@persona.ca>, Rob Weaver <weaver00@telus.net>, Ron Steffey <moosevalley@xplornet.com>, Ryan Bichon <rbichon@mlib.ca>, Scott Scholefield <Scott.Scholefield@gov.bc.ca>, Shaun Kuzio <Shaun.Kuzio@abitibowater.com>, Stephanie Killam <stephanie@district.mackenzie.bc.ca>, Tanja Armstrong-Whitworth <Tanja.ArmstrongWhitworth@gov.bc.ca>, Teena Demeulemeester <Forestry@westmo.org>, Tom and Karen Briggs <teekay74@telus.net>, Vi Lambie <jlambie@telus.net>, Vida Tattie <vireo@mackbc.com>, Warren Waycheshen <info@district.mackenzie.bc.ca>

Hi Folks,

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A draft agenda is attached.

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- Opportunities to discuss common concerns, continual input, learning and improvement, and the resolution of issues.

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Please contact the facilitator, Dwight Scott Wolfe, (phone: 250-614-3122 or MacPAG@tesera.com) by noon on Friday, October 24, 2008, if you plan on attending this meeting.

Sincerely,

DSW

--

Dwight Scott Wolfe, RPF, Cert. ConRes.

Operations Manager

Tesera Systems Inc.

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2 attachments

 **PAG agenda - October 28 2008 draft.pdf**
40K

 **PAG Meeting Summary - May 27, 2008 draft.pdf**
43K



Mackenzie SFMP



BCTS
BC Timber Sales
Prince George Business Area

MACKENZIE PUBLIC ADVISORY GROUP CONSENSUS RECORD FOR APRIL 29, 2008

Background Information

PAG representatives in attendance at the meeting on April 29 were able to reach consensus on items discussed during the meeting. However, according to the quorum requirements of the Mackenzie PAG, representatives present at the meeting could not make a decision. This consensus record is intended to complete the task of consensus decision making on agenda items discussed at the PAG meeting held on April 29, 2008.

Please review the draft summary of the April 29th PAG meeting and answer the questions below.

Name: Brent Sinclair - Woodlots Signature: [Handwritten Signature]

1. Are you comfortable with the minutes of the March 13, 2008 meeting being accepted as written?

Yes No

If No, please state your reason for dissent: _____

2. Are you comfortable with the minutes of the March 28, 2007 meeting being accepted as written?

Yes No

If No, please state your reason for dissent: _____

3. Are you comfortable with the changes to the Terms of Reference?

Yes No

If No, please state your reason for dissent: _____

4. Are you comfortable that this SFM Plan adequately addresses the concerns of the PAG members?

Yes No

If No, please state your reason for dissent: The process seems largely administrative.

Not sure what real benefits there are for Woodlot ~~some~~ folks.

FAX THIS COMPLETED RECORD TO TESERA SYSTEMS INC. 250-964-4037

Or SCAN AND EMAIL TO MACPAG@TESERA.COM by 5:00 PM FRIDAY, MAY 23, 2008



Mackenzie SFMP



**MACKENZIE PUBLIC ADVISORY GROUP
CONSENSUS RECORD FOR APRIL 29, 2008**

Background Information

PAG representatives in attendance at the meeting on April 29 were able to reach consensus on items discussed during the meeting. However, according to the quorum requirements of the Mackenzie PAG, representatives present at the meeting could not make a decision. This consensus record is intended to complete the task of consensus decision making on agenda items discussed at the PAG meeting held on / 29, 2008.

Please review the draft summary of the April 29th PAG meeting and answer the questions below.

Name: THOMAS MICHAEL Signature: Tom Michael

Are you comfortable with the minutes of the March 13, 2008 meeting being accepted as written?
Yes No

If No, please state your reason for dissent: _____

2. Are you comfortable with the minutes of the March 28, 2007 meeting being accepted as written?
Yes No

If No, please state your reason for dissent: _____

3. Are you comfortable with the changes to the Terms of Reference?
Yes No

If No, please state your reason for dissent: _____

4. Are you comfortable that this SFM Plan adequately addresses the concerns of the PAG members?
Yes No

If No, please state your reason for dissent: _____

**FAX THIS COMPLETED RECORD TO TESERA SYSTEMS INC. 250-964-4037
Or SCAN AND EMAIL TO MACPAG@TESERA.COM by 5:00 PM FRIDAY, MAY 23, 2008**



Dwight Wolfe <dwight.wolfe@tesera.com>

PAG questionnaire

jbesherse <jbesherse@xplornet.com>
To: MACPAG@tesera.com

Thu, May 22, 2008 at 4:01 PM

Hi,

Here is my response to your questionnaire. First of all I must say that very rarely can a question be answered completely with only yes or no.

Name: Jim Besherse representing of Noostel Keyoh

1. Are you comfortable with the minutes of the March 13, 2008 meeting being accepted as written?

I did not attend that meeting so I can't confirm the veracity of the "minutes", but I will accept that the topics mentioned were discussed. My level of discomfort comes from not having the financial means to attend the meeting. It costs much more than the per kilometer rate given by the MoF to attend these meetings. The reimbursement comes four to six weeks after we attend a meeting. The "user maintain policy" makes travel to Mackenzie quite noisome at times. It is 1,157 km round trip via Prince George That would require two nights stay in motels and six meals per person in the vehicle. Would you be able to cover that at the current rate for this average joe and the executive rate for our Hereditary Chief and have a cheque ready when we get there?

2. Are you comfortable with the minutes of the March 28, 2007 meeting being accepted as written?

Same answer as the first

3. Are you comfortable with the changes to the Terms of Reference?

I am not comfortable with moving the goal posts or tipping the playing field after the game has started. What was done to the TOR was freshening the dates, updating rates and other housekeeping items. I am fine with that. Now dropping the \$.48 per km rate in favor of the current rate paid by MoF leaves the flexibility I have been looking for. MoF has two rates, one for the average joe and another for important people. Our Hereditary Chiefs with decision making authority over the land and resources should be entitled to the higher rate.

4. Are you comfortable that this SFM Plan adequately addresses the

concerns of the PAG members?

Our Hereditary Chiefs are Royalty. They are not given the respect to which they are entitled. There is no treaty surrendering their authority over management of the land and its resources. For the average joe this plan is doing its best from a loggers point of view, answering the question (How fast can we log without running out of trees?) There is a gap between sustainability and perpetual yield. I took a cold remedy once that promised sustained relief for twelve hours. My perception is that sustained logging and perpetual yield forest management are two almost irreconcilable approaches brought to the PAG table.



Mackenzie SFMP



Copy of letter mailed to
Bruce Bennett
Don & Sudie Jarvis
Max Desjarlais
Tom Michael
Walter Jeans

May 20, 2008

Max Desjarlais
West Moberly First Nation
PO Box 90
Moberly Lake, BC V0C 1X0

Dear Max;

The next meeting of the Mackenzie SFM Plan Public Advisory Group is Tuesday, May 27, 2008 10AM - 4PM in the Multipurpose Room, Recreation Centre, Mackenzie

An agenda and background materials are attached:

- MAC_PAG_agenda_052708_draft
- PAG Meeting Summary - April 29 2008 draft
- Mac PAG ToR - April 29, 2008 - draft
- DMKVLI_MAIN_PAG
- MacPAG_Consensus_Record_042908
- Latest version of the SFM Plan

The Species Composition Report will be sent separately.

At the Mackenzie Public Advisory Meeting held in Mackenzie, April 29, 2008 there was not a quorum present to make decisions according to the group's terms of reference. The meeting included a number of decision points needed to progress with SFM plan implementation. As a result, a consensus record is being distributed to members of the Mackenzie Public Advisory Group to complete this task.

Action Requested: Please complete and return the consensus record (attached) to Tesera Systems Inc. by 5:00 PM on Friday, May 23rd, 2008 to be counted. Completed ballots can be faxed at 250-964-4037 or scanned and emailed to MacPAG@Tesera.com

PAG members who attended the meeting on April 29, 2008 do not need to return a ballot.

I will follow-up with PAG members as well, to ensure they have received and understand the information discussed at the meeting. If you haven't done so already, please RSVP and let me know if you will be attending as we need a quorum for the meeting.

Sincerely,

Dwight Scott Wolfe, RPF
Operations Manager, Tesera Systems Inc.
250.614.3122 tel, 866-698-8789 toll free, 250.964.4037 fax, www.tesera.com



Dwight Wolfe <dwight.wolfe@tesera.com>

MacPAG: Next meeting of the Mackenzie SFM PAG is Tuesday, May 27, 2008

Dwight Wolfe <dwight.wolfe@tesera.com>

Fri, May 9, 2008 at 2:18 PM

Cc: Doug Ambedian <Doug.Ambedian@canfor.com>, Ingo Hinz <Ingo.Hinz@canfor.com>, "Sproule, Tim FOR:EX" <Tim.Sproule@gov.bc.ca>

Bcc: Brent Sinclair <sinclairb@mackbc.com>, Chief Jerry Asp <pjerryasp@hotmail.com>, Chris Addison <chrisaddison@xplornet.com>, Clayton Davis <cdavis@saulteau.com>, Dave Jeans <r19ddt@telus.net>, Grant Martin <canty_creek91@xplornet.com>, Jim & Janet Besherse <jbesherse@xplornet.com>, Josef Kollbrand <joskoll@telus.net>, Judi Vander Maaten <Judi@district.mackenzie.bc.ca>, Keinan Carty <kcarty@milib.ca>, Keith Playfair <Playfair@bctrucksafe.org>, Kelsey McLeod <kelsey_mcleod@yahoo.ca>, Ken & Mary Reiersen <momsfunnyfarm@xplornet.com>, MaryAnne Arcand <Arcand@bctrucksafe.org>, Mel Botrakoff <mel@district.mackenzie.bc.ca>, Michael Schneider <michael@going-fishing.com>, Mike Broadbent <mrstar58@telus.net>, "PPWC (Local 18)" <ppwc18@persona.ca>, Rob Weaver <weaver00@telus.net>, Ron Steffey <moosevalley@xplornet.com>, Ryan Bichon <rbichon@milib.ca>, Scott Scholefield <Scott.Scholefield@gov.bc.ca>, Shaun Kuzio <Shaun.Kuzio@abitibowater.com>, Tanja Armstrong-Whitworth <Tanja.ArmstrongWhitworth@gov.bc.ca>, Teena Demeulemeester <Forestry@westmo.org>, Tom and Karen Briggs <teekay74@telus.net>, Vi Lambie <jlambie@telus.net>, Vida Tattrie <vireo@mackbc.com>, Warren Waycheshen <info@district.mackenzie.bc.ca>

Hi Folks,

The next meeting of the Mackenzie SFM Plan Public Advisory Group is
Tuesday, May 27, 2008
10AM - 4PM
Multipurpose Room, Recreation Centre, Mackenzie
Agenda: Review of Annual Report

A formal agenda will be circulated shortly.

Please RSVP and let me know if you will be attending as we need a quorum for the meeting.

Sincerely,

DSW

--
Dwight Scott Wolfe, RPF
Operations Manager
Tesera Systems Inc.
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Dwight Wolfe <dwight.wolfe@tesera.com>

Mac PAG: Reminder of April 29 Mackenzie PAG meeting & meeting material

Dwight Wolfe <dwight.wolfe@tesera.com>

Tue, Apr 22, 2008 at 12:30 PM

Cc: Doug Ambedian <Doug.Ambedian@canfor.com>, Lars Hulstein <Lars.Hulstein@canfor.com>, "Sproule, Tim FOR:EX" <Tim.Sproule@gov.bc.ca>

Bcc: Bob LaVallee <LavalleeB@telus.net>, Brent Sinclair <sinclairb@mackbc.com>, Chief Jerry Asp <pjerryasp@hotmail.com>, Chris Addison <chrisaddison@xplornet.com>, Clayton Davis <cdavis@saulteau.com>, Dave Jeans <r19ddt@telus.net>, Grant Martin <canty_creek91@xplornet.com>, Jamin Parker <jamin_parker@yahoo.ca>, Jim & Janet Besherse <jbesherse@xplornet.com>, Josef Kollbrand <joskoll@telus.net>, Judi Vander Maaten <Judi@district.mackenzie.bc.ca>, Keinan Carty <kcarty@milib.ca>, Keith Playfair <Playfair@bctrucksafe.org>, Kelsey McLeod <kelsey_mcleod@yahoo.ca>, Ken & Mary Reierson <momsfunnyfarm@xplornet.com>, MaryAnne Arcand <Arcand@bctrucksafe.org>, Mel Botrakoff <mel@district.mackenzie.bc.ca>, Michael Schneider <michael@going-fishing.com>, Mike Broadbent <mrstar58@telus.net>, Rob Weaver <weaver00@telus.net>, Ron Steffey <moosevalley@xplornet.com>, Ryan Bichon <rbichon@milib.ca>, Scott Scholefield <Scott.Scholefield@gov.bc.ca>, Shaun Kuzio <Shaun.Kuzio@abitibowater.com>, Tanja Armstrong-Whitworth <Tanja.ArmstrongWhitworth@gov.bc.ca>, Teena Demeulemeester <Forestry@westmo.org>, Tom and Karen Briggs <teekay74@telus.net>, Vi Lambie <jlambie@telus.net>, Vida Tattrie <vireo@mackbc.com>, Warren Waycheshen <info@district.mackenzie.bc.ca>

Hi Folks,

The next meeting of the Mackenzie SFM Plan Public Advisory Group is
Tuesday, April 29, 2008.
Time: 10AM - 4PM
Location: Curling Rink Lounge, Mackenzie

The meeting agenda and background materials are attached.

If you haven't done so already, please RSVP and let me know if you will be attending as we need a quorum for the meeting.

Sincerely,

DSW

--

Dwight Scott Wolfe, RPF
Operations Manager
Tesera Systems Inc.

250.614.3122 tel
866-698-8789 toll free
250.964.4037 fax

www.tesera.com

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Box 1078, Cochrane, AB, T4C 1B1 Box 2130, Prince George, BC, V2N 2J6

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5 attachments

 **MAC_PAG_agenda_042908_draft.pdf**
34K

 **PAG Meeting Summary - Mar 13 2008 draft.pdf**
49K

 **2006 Certification Report - For PAG.pdf**
520K

 **2007 Certification Report - For PAG.pdf**
732K

 **BCTS PG 14K-CSA Action Plan approved.pdf**
39K



Dwight Wolfe <dwight.wolfe@tesera.com>

Re: MacPAG: Next meeting of the Mackenzie SFM PAG is Tuesday, May 27, 2008

chrisaddison@xplornet.com <chrisaddison@xplornet.com>

Fri, May 9, 2008 at 6:12 PM

Reply-To: chrisaddison@xplornet.com

To: dwight.wolfe@tesera.com, ellis@goabc.org

Hi Dwight. Could you please take me off the distribution list for the MacPag? I'm sure there are some very interesting issues coming up with the committee at this time. Unfortunately they're beyond my professional purview these days.

Chris

On May 9, 2008, dwight.wolfe@tesera.com wrote:

Hi Folks,

The next meeting of the Mackenzie SFM Plan Public Advisory Group is
Tuesday, May 27, 2008

10AM - 4PM

Multipurpose Room, Recreation Centre, Mackenzie

Agenda: Review of Annual Report

A formal agenda will be circulated shortly.

Please RSVP and let me know if you will be attending as we need a quorum for the meeting.

Sincerely,

DSW

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Dwight Scott Wolfe, RPF

Operations Manager

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Dwight Wolfe <dwight.wolfe@tesera.com>

MacPAG: The next meeting of the Mackenzie SFM Plan Public Advisory Group is Tuesday, April 29, 2008

Dwight Wolfe <dwight.wolfe@tesera.com>

Wed, Apr 9, 2008 at 8:06 AM

Cc: Doug Ambedian <Doug.Ambedian@canfor.com>, Lars Hulstein <Lars.Hulstein@canfor.com>, "Sproule, Tim FOR:EX" <Tim.Sproule@gov.bc.ca>

Bcc: Bob LaVallee <LavalleeB@telus.net>, Brent Sinclair <sinclairb@mackbc.com>, Bruce Bennett <b-bvent@uniserve.com>, Chief Donny Van Somer <Donny_vansomer@yahoo.ca>, Chief Jerry Asp <pjerryasp@hotmail.com>, Clayton Davis <cdavis@saulteau.com>, Dave Jeans <r19ddt@telus.net>, Grant Martin <canty_creek91@xplornet.com>, Jamin Parker <jamin_parker@yahoo.ca>, Jim & Janet Besherse <jbesherse@xplornet.com>, Josef Kollbrand <joskoll@telus.net>, Judi Vander Maaten <Judi@district.mackenzie.bc.ca>, Keinan Carty <kcarty@milib.ca>, Keith Playfair <Playfair@bctrucksafe.org>, Kelsey McLeod <kelsey_mcleod@yahoo.ca>, Ken & Mary Reieron <momsfunnyfarm@xplornet.com>, MaryAnne Arcand <Arcand@bctrucksafe.org>, Max Desjarlais <gdesjarlais@westmo.org>, Mel Botrakoff <mel@district.mackenzie.bc.ca>, Michael Schneider <michael@going-fishing.com>, Mike Broadbent <mrstar58@telus.net>, Rob Weaver <weaver00@telus.net>, Ron Steffey <moosevalley@xplornet.com>, Ryan Bichon <rbichon@milib.ca>, Scott Scholefield <Scott.Scholefield@gov.bc.ca>, Shaun Kuzio <Shaun.Kuzio@abitibowater.com>, Tanja Armstrong-Whitworth <Tanja.ArmstrongWhitworth@gov.bc.ca>, Teena Demeulemeester <Forestry@westmo.org>, Vi Lambie <jlambie@telus.net>, Vida Tattrie <vireo@mackbc.com>, Warren Waycheshen <info@district.mackenzie.bc.ca>

Hi Folks,

The next meeting of the Mackenzie SFM Plan Public Advisory Group is Tuesday, April 29, 2008
10AM - 4PM
Curling Rink Lounge, Mackenzie
Agenda: Review Terms of Reference and Annual Report

A formal agenda will be circulated shortly.

Please RSVP and let me know if you will be attending as we need a quorum for the meeting.

Sincerely,

DSW

--

Dwight Scott Wolfe, RPF
Operations Manager
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Mackenzie SFMP



Continuous Improvement Matrix

May 9, 2006

The purpose of this matrix is to capture issues presented by PAG members that can contribute to the continuous improvement of sustainable forest management but are either outside the scope of the PAG process or cannot be addressed by Canfor (Mackenzie) and BCTS (Prince George Forest District) at the present time. These issues are to be reviewed at PAG meetings for further discussion and prioritization.

No.	Perf. Matrix Ref.	Description of Issue	Suggested Strategies	Suggested Dates
1.	2-1.1	Develop baseline data for course woody debris.		June 2007
2.	3.1	Recognize advances in carbon accounting and incorporate that information once it becomes available.		On-going – June 2010
3.	1.2	Examine possibility for measures associated with shrubs, snags, and large live trees.		June 2008
4.	3	Consider opportunity for adding an indicator on forest product carbon pools.		
5.	3	Consider a new measure with carbon associated with slash burning.		
6.	1-3.1	Consider a measure for management strategies from the Northern Caribou Recovery Action Plan as it is finalized.		
7.	1.2	Develop a measure to deal with pesticide use.		
8.	9-2	Consider a measure for the management of visual quality areas recommended within the Mackenzie LRMP.		
9.	9-1.2	Consider a measure for Canfor and BCTS to sponsor and maintain new recreation sites and rest areas.		
10.	9-3 & 1-4	BCTS and Canfor to solicit public for input on additional resource features ” (Indicator_		
11.	9-5	Develop a measure around road maintenance.		

12.	9-5	Develop a smoke management strategy in consultation with the local communities.		
13.	9-5	Develop a measure on dust control for road safety.		
14.	9-5	Develop a measure to protect domestic water intake and/or supply.		
15.	<u>5-1 & 9-1</u>	<u>An opportunity to incorporate marketed and non-marketed, non-timber values into one measure</u>	<u>Revisit Measures 5-1.1 and 9-1.1 and look at incorporating marketed and non-marketed, non-timber values into one Measure</u>	<u>September 2008</u>



Mackenzie SFMP



**CANFOR - MACKENZIE/BCTS DEFINED FOREST AREA
SUSTAINABLE FOREST MANAGEMENT PLAN
SUSTAINABLE FOREST CRITERIA AND INDICATOR MATRIX**

A Framework for Sustainable Forest Management

Revision table

				Previous Version	Amended Version	Rationale	PAG Approval Date
				1-2.11 Percent compliance with Chief Forester's Standards for Seed Use.	Remove measure	Redundant - declaring a block stocked (2-3.1) means it must also be compliant with the Chief Foresters' Standard. Updates to SFMP text to refer to Chief Forester's Standards for seed use.	20-Feb-07
				2-3.1 Percent of harvested blocks declared Stocked prior to the regeneration date.	Percent of harvested blocks declared Stocked prior to the regeneration date consistent with operational plans.	PAG request to maintain consistent wording.	20-Feb-07
				2-5.1 Measured annually. Refinement of the target will be done pending analysis (Sept. 2006). Target combined between Canfor and BCTS.	Measured annually. Only fires > 1ha recorded. Refinement of the target will be done pending analysis (Sept. 2006). Target combined between Canfor and BCTS.	Revised comment to reflect MoFR protection branch process for tracking hectares burned.	20-Feb-07
				2-5.3 Percent compliance with Chief Forester's Standards for Seed Use.	Remove measure	Redundant - declaring a block stocked (2-3.1) means it must also be compliant with the Chief Foresters' Standard. Updates to SFMP text to refer to Chief Forester's Standards for seed use.	20-Feb-07
				4-3.1 Taxes paid to governments.	Municipal taxes paid to government.	GST and corporate tax tracked by head office, not by division. Not possible to assign taxes to division.	20-Feb-07
				7-2.2 Website containing SFM information relevant to the Mackenzie SFMP is developed and updated.	Remove measure	PAG satisfied with material presented on Canfor and BCTS websites if invitation to join PAG included on site.	20-Feb-07
				7-2.4 Measured annually. Will also post on public website.	Canfor and BCTS to update annually their respective webpages with current documents.	PAG amended comment to clarify intent to make documentation available to the public at least once per year.	20-Feb-07
				8-4.2 Percentage of forest operations consistent with mutually agreed upon strategies.	8-4.2 Percentage of forest operations consistent with mutually agreed upon strategies developed with First Nations.	Measure needed to be specific to strategies developed with first nations as originally intended by PAG.	20-Feb-07
				9-1.1 The percentage of harvest operations consistent with results or strategies as identified in operational plans, tactical plans and/or site plans.	The percentage of harvest operations consistent with results or strategies for recreation values as identified in operational plans, tactical plans and/or site plans.	Clarify that measure is explicit to recreation values.	20-Feb-07
				9-2.1 The percentage of forest operations consistent with visual quality requirements as identified in operational, tactical and/or site plans.	The percentage of harvesting and road building operations consistent with visual quality requirements as identified in operational, tactical and/or site plans.	To be consistent with other measures.	20-Feb-07
				9-2.2 Percentage of operations consistent with visually effective green-up buffer along roads as identified in the Mackenzie LRMP.	Percentage of harvest operations consistent with visually effective green-up buffer along roads as identified in the Mackenzie LRMP.	Specifying harvest operations limits harvesting without unduly isolating timber by restricting road ingress and silviculture activities are moot after harvesting.	20-Feb-07
				9-3.1 Percent of identified resource features that are managed or protected.	Percent of identified unique and/or significant places and features of social, cultural or spiritual importance that are managed or protected.	Clarify that the measure is specific to the indicator.	20-Feb-07
				5-1.2 Report out – dependent on list developed in 5-1.1 and report out by June 30, 2007.	Report out – dependent on list developed in 5-1.1 and report out by on or before March 31, 2008	Revised comment to reflect that report is to be completed in Fiscal 07/08.	28-Mar-07
				1-1.1 Percent area of old and mature+old seral stage by landscape unit group and BEC variant for CFLB within the DFA.	1-1.1 Percent area of old seral stage by landscape unit group and BEC Group for CFLB within the DFA.	Update the measure statement and the comments to reflect the requirements of the approved old growth order.	
				1-1.2 Percent of interior old forest by landscape unit group and BEC variant for CFLB within the DFA.	1-1.2 Percent of interior old forest by landscape unit group and NDT for CFLB within the DFA.	Update the measure statement and the comments to reflect the requirements of the approved old growth order.	
				1-1.5 Percent productive forest by BEC variant represented within the Non-harvestable land base.		Delete this measure because BEC variant is too coarse of a scale to be an effective measure of Biodiversity. PEM is a more appropriate tool to use, when it becomes available.	
				1-2.5 Trend toward unmanaged species composition on managed stands by BEC zone on the THLB.		Delete this measure because the numbers indicate that managed stands at free growing have more species diversity than unmanaged stands.	
				2-1.5 Variance between average preharvest and post harvest Site Index (at Free Growing) by inventory type group for cutblocks.		Delete measure because stands at free growing are generally too short to use growth intercept as a measure of site index. For this reason, we rely on SI-BEC as the tool to use to estimate site index at free growing.	
				2-3.5 Trend toward unmanaged species composition on managed stands by BEC zone on the THLB.		Delete this measure because the numbers indicate that managed stands at free growing have more species diversity than unmanaged stands.	
				2-5.2 Comments: Catastrophic change associated with forest health, global climate change, etc. Initial completion March 31, 2007.	2-5.2 Comments: This measure will concentrate on the ranked forest health factors identified in the the annual strategic forest health plan.	Refine the measure to concentrate efforts on the ranked forest health factors only.	

CCFM Criterion	CSA SFM Element	Value	FW Criteria	Criteria	Indicator	Measure	Target	Variance	Comments	PAG Recommendation
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1	1.1	Ecological		Cl. Biological richness and its associated values are sustained in the defined forest area (DFA)	1-1. Ecologically distinct habitat types are represented in an unmanaged state in the DFA to sustain lesser known species and ecological function.	1-1.1 Percent area of old seral stage by landscape unit group and BEC group for CFLB within the DFA.	Targets as per the Mackenzie TSA Biodiversity Order.	0%	Canfor and BCTS to monitor BEC groups for recruitment areas when within 10% or within 1000 ha of target (whichever is less). Excludes parks which encompass whole Landscape Units.	Consensus - Mar. 28, 06
1	1.1	Ecological				1-1.2 Percent of interior old forest by landscape unit group and BEC group for CFLB within the DFA.	Targets as per the Mackenzie TSA Biodiversity Order.	0%	Excludes parks which encompass whole Landscape Units.	Consensus - Mar. 28, 06
1	1.1	Ecological				1-1.3 The amount of established landscape-level biodiversity reserves within the DFA.	≥ area set aside across the DFA.	-0.5%	Parks, Protected Areas, Wildland RMZs, OGMAs, WHAs, UWR (List to be included in the SFMP)	Consensus - Mar. 28, 06
1	1.1	Ecological				1-1.4 Hectares of unauthorized forestry-related harvesting or road construction within protected areas or established old growth management areas (OGMA).	0 ha	0	OGMAs to be established in Mackenzie TSA. Draft OGMAs are to be managed as if established.	Consensus - Mar. 28, 06
						1-1.5 Percent productive forest by BEC variant represented within the Non-harvestable land base.	Target to be established following analysis (Sept. 2006).			Consensus - May 9, 06
1	1.2	Ecological		1-2. The amount, distribution, and diversity of terrestrial and aquatic habitat types, structure and elements important to biological richness are sustained.		1-2.1 Percent area by patch size class by landscape unit group and Natural Disturbance Types.	Trend towards targets in LRMP		Patch is combined areas of harvesting within 20 years of age that are generally within 400 metres of each other including unharvested areas in-between. Measured biannually	Consensus - Mar. 28, 06
1	1.2	Ecological				1-2.2 Percentage of cutblocks that exceed coarse woody debris requirements.	100%	0%	Legal or requirements specified in operational plan. Measured annually.	Consensus - Mar. 28, 06
1	1.2	Ecological				1-2.3 Percentage of cutblocks that meet or exceed wildlife tree patch requirements.	100%	0%	Legal or requirements specified in operational and/or site plan. Measured annually.	Consensus - Mar. 28, 06
1	1.2	Ecological				1-2.4 The percentage of forest operations consistent with riparian management area requirements as identified in operational plans and/or site plans.	100%	0%	Measured annually.	Consensus - Mar. 28, 06
1	1.2	Ecological				1-2.5 Trend toward unmanaged species composition on managed stands by BEC zone on the THLB.	Target to be established following analysis (Sept. 2006).		Area weighted percent species composition at free growing measured by inventory label for all stands declared FG within the reporting period. Measured annually.	Consensus - Mar. 28, 06
2	2.2	Ecological				1-2.6 The percentage of forest operations consistent with approved provincial Caribou Ungulate Winter Range requirements.	100%	0%	Measured annually. Subject to adaptive management requirements of CSA and effectiveness monitoring (PAG comment request).	Consensus - Mar. 28, 06
3	3.2	Ecological				1-2.7 The percentage of identified unnatural sediment occurrences where mitigating actions were taken.	100%	≤5%	Mitigating actions may include referral to appropriate party. Measured annually.	Consensus - Mar. 28, 06
3	3.2	Ecological				1-2.8 Percentage of stream crossings appropriately designed and properly installed and/or removed.	100%	≤5%	Measured annually.	Consensus - Mar. 28, 06
3	3.2	Ecological				1-2.9 Percent of watersheds containing approved or proposed development with Peak Flow Index calculations completed.	100% by Sept 2007	+7 months	LRMP 6.6	Consensus - Apr. 11, 06
3	3.2	Ecological				1-2.10 Percentage of road construction or deactivation projects where prescribed revegetation occurs within 12 months of disturbance.	100%	≤10%	This will meet the LRMP requirement for reduction of noxious weeds. Revegetation may include grass seeding, willow cuttings, etc.	Consensus - Mar. 28, 06

CCFM Criterion	CSA SFM Element	Value	FW Criteria	Criteria	Indicator	Measure	Target	Variance	Comments	PAG Recommendation
3	3.2	Ecological				1-2.12 Percentage of planned roads that have an environmental risk assessment completed.	100%	≤10%	Measured annually.	Consensus - Mar. 28, 06
1	1.2	Ecological			1-3. Productive populations of selected species or species guilds are well distributed throughout the range of their habitat.	1-3.1 The percentage of forest operations consistent with approved provincial Caribou Ungulate Winter Range requirements.	100%	0%	Measured annually. Subject to adaptive management requirements of CSA and effectiveness monitoring (PAG comment request). Comment for Indicator 1.3: "Productive" means self-perpetuating, sustainable and viable.	Consensus - Apr. 11, 06
1	1.2	Ecological				1-3.2 Percent of appropriate personnel trained to identify Species at Risk in the DFA.	100%	≤10%	Measured annually.	Consensus - Apr. 11, 06
1	1.2	Ecological				1-3.3 Percent of Species at Risk in the DFA that have management strategies developed by April 2007.	100%	0%	Measured annually. Subject to adaptive management requirements of CSA and effectiveness monitoring (PAG comment request).	Consensus - Apr. 11, 06
1	1.2	Ecological				1-3.4 Percent LRMP Resource Management Zone (RMZ) specific wildlife species with management strategies by April 2007.	100%	0%	The RMZ strategy is only applicable to the RMZs in which these species have been identified. Measured annually.	Consensus - Apr. 11, 06
1	1.2	Ecological				1-3.5 Percentage of forest operations consistent with Species at Risk in the DFA management strategies as identified in operational plans, tactical plans and/or site plans.	100%	≤5%	Measured annually. Commencing after April 2007.	Consensus - Apr. 11, 06
1	1.2	Ecological				1-3.6 Percentage of forest operations consistent with LRMP Resource Management Zone (RMZ) specific wildlife species management strategies as identified in operational plans, tactical plans and/or site plans.	100%	≤5%	Measured annually. Commencing after April 2007.	Consensus - Apr. 11, 06
						1-3.7 Report out on the annual results from the Mugaha Marsh bird banding station.	Report out on		Annually.	Consensus - May 9, 06
1	1.4	Ecological			1-4. Government designated protected areas and sites of special biological significance are sustained at the site and sub regional level	1-4.1 The amount of established landscape-level biodiversity reserves within the DFA.	≥ area set aside across the DFA.	-0.5%	Parks, Protected Areas, Wildland Resource Management Zones, OGMAs, WHAs, UWR (List to be included in the SFMP).	Consensus - Apr. 11, 06
1	1.4	Ecological				1-4.2 Hectares of unauthorized forestry-related harvesting or road construction within protected areas or established old growth management areas (OGMA).	0 ha	0 ha	OGMAs to be established in Mackenzie TSA. Draft OGMAs are to be managed as if established.	Consensus - Apr. 11, 06
1	1.4	Ecological				1-4.3 Percent of appropriate personnel trained to identify sites of biological significance in the DFA.	100%	≤10%	Measured annually.	Consensus - Apr. 11, 06
1	1.4	Ecological				1-4.4 Percent of sites of biological significance that have management strategies developed by April 2007.	100%	0%	Measured annually. "Sites" refers to features that can be found in the field. Management strategies address types of sites, not necessarily specific sites.	Consensus - Apr. 11, 06
1	1.4	Ecological				1-4.5 Percentage of forest operations consistent with sites of biological significance management strategies as identified in operational plans, tactical plans and/or site plans.	100%	≤5%	Measured annually commencing after April 2007.	Consensus - Apr. 11, 06
Criterion 3	3.1	Environmental	2	C II. The productive capability of forest ecosystems within the Timber Harvesting Landbase (THLB) is sustained.	2-1. Biological components of forest soils are sustained.	2-1.1 Percentage of cutblocks that exceed coarse woody debris requirements.	100%	0%	Legal or requirements specified in operation plan. Measured annually.	Consensus - Feb. 28, 06
						2-1.2 The percentage of forest operations consistent with soil conservation standards as identified in operational plans and/or site plans	100%	0%	Measured annually. Operational plan requirements are specific to each block based on soil hazard assessment.	Consensus - Feb. 28, 06

CCFM Criterion	CSA SFM Element	Value	FW Criteria	Criteria	Indicator	Measure	Target	Variance	Comments	PAG Recommendation
						2-1.3 The percentage of forest operations consistent with terrain management requirements as identified in operational plans and/or site plans.	100%	0%	Measured annually. Operational plan requirements are specific to each block based on terrain stability indicators.	Consensus - Feb. 28, 06
						2.1.4 The number of EMS reportable spills.	0	< 5	Measured annually. Report on spills and actions taken. EMS as per Canfor and BCTS (and listed in SFMP). Add definition of running water and applicability to standing water. Variance is combined between Canfor and BCTS.	Consensus - Mar. 14, 06
						2-1.5 Variance between average preharvest and post harvest Site Index (at Free Growing) by inventory type group for cutblocks.	> 0	0%	Interim measure - Measured annually, includes blocks at late free growing date within reporting period.	Consensus - Feb. 28, 06
					2-2. Productive land-base loss as a result of forestry activities is minimized.	2-2.1 Area of THLB converted to non-forest land use through forest management activities.	<5%	0%	Refinement of the target will be done pending analysis.	Consensus - Feb. 28, 06
						2-2.2 The percentage of gross cutblock area occupied by total permanent access structures.	<5%	1%	Averaged annually.	Consensus - Feb. 28, 06
						2-2.3 Inclusion of access management in communication strategies with stakeholders.	100%	0%	Measured annually. Intent is to coordinate access to minimize area of roads.	Consensus - Feb. 28, 06
					2-3. Total growing stock of merchantable and non-merchantable tree species on forest land available for timber production.	2-3.1 Percent of harvested blocks declared Stocked prior to the regeneration date consistent with operational plans.	100%	≤5%	Measured annually. Query blocks where RD is in this reporting period.	Consensus - Feb 20, 07
						2-3.2 Percent of harvested blocks declared Free Growing prior to the late free growing assessment date.	100%	≤5%	Measured annually. Query blocks where LFG is in this reporting period.	Consensus - Mar 14, 05
						2-3.3 Percent compliance with stocking levels and species composition requirements contained in operational plans.	100%	0%	Measured annually.	Consensus - Mar 14, 06
1	1.2	Ecological				2.3-4 Trend toward unmanaged species composition on managed stands by BEC zone on the THLB.	Target to be established following analysis (Sept. 2006).		Area weighted percent species composition at free growing measured by inventory label for all stands declared FG within the reporting period. Measured annually.	Consensus - Mar 14, 06
					2-4. No net detrimental loss in productivity as a result of forestry-related slope instability.	2-4.1 The percentage of forest operations consistent with terrain management requirements as identified in operational plans and/or site plans.	100%	0%	Measured annually. Operational plan requirements are specific to each block based on terrain stability indicators.	Consensus - Mar 14, 06
					2-5 Natural disturbance levels and risk levels are managed for such that resistance to catastrophic change and the ability to recover on the landscape level is sustained.	2-5.1 Number of hectares (area) damaged by accidental forestry-related industrial fires.	<100 ha	+5ha	Measured annually. Only fires > 1ha recorded. Refinement of the target will be done pending analysis (Sept. 2006). Target combined between Canfor and BCTS.	Consensus - Feb 20, 07
						2-5.2 Percentage of identified risk factors with updated management strategies.	100%	0%	Catastrophic change associated with forest health, global climate change, etc. Initial completion March 31, 2007.	Consensus - Mar 14, 06
				C III. Forest ecosystem contributions to global ecological cycles are sustained within the DFA.	3-1. The forest ecosystem carbon pool for the defined management area is maintained or increased.	3-1.1 Area of THLB converted to non-forest land use through forest management activities.	<5%	0%	Refinement of the target will be done pending analysis.	Consensus - Mar 14, 06
						3-1.2 Percentage of cutblocks that exceed coarse woody debris requirements.	100%	0%	Legal or requirements specified in operation plan. Measured annually.	Consensus - Mar 14, 06
						3-1.3 Percent of harvested blocks declared Stocked prior to the regeneration date.	100%	≤5%	Measured annually. Query blocks where RD is in this reporting period.	Consensus with one abstention - Mar 14, 06

CCFM Criterion	CSA SFM Element	Value	FW Criteria	Criteria	Indicator	Measure	Target	Variance	Comments	PAG Recommendation
						3-1.4 Percent of harvested blocks declared Free Growing prior to the late free growing assessment date.	100%	≤5%	Measured annually. Query blocks where LFG is in this reporting period.	Consensus - Mar 14, 06
						3-1.5 Percent compliance with stocking levels and species composition requirements contained in operational plans.	100%	0%	Measured annually.	Consensus - Mar 14, 06
						3-1.6 The percentage of forest operations consistent with soil conservation standards as identified in operational plans and/or site plans	100%	0%	Measured annually. Operational plan requirements are specific to each block based on soil hazard assessment.	Consensus - Mar 14, 06
					3-3. The processes that take carbon from the atmosphere and store it in forest ecosystems are sustained.	3-3.1 Area of THLB converted to non-forest land use through forest management activities.	<5%	0%	Refinement of the target will be done pending analysis.	Consensus - Mar 14, 06
						3-3.2 Percent compliance with stocking levels and species composition requirements contained in operational plans.	100%	0%	Measured annually.	Consensus - Mar 14, 06
						3-3.3 Percent of harvested blocks declared Stocked prior to the regeneration date.	100%	≤5%	Measured annually. Query blocks where RD is in this reporting period.	Consensus - Mar 14, 06
						3-3.4 Percent of harvested blocks declared Free Growing prior to the late free growing assessment date.	100%	≤5%	Measured annually. Query blocks where LFG is in this reporting period.	Consensus - Mar 14, 06
		Economic	4	C IV. The flow of economic benefits from forests through the forest industry is sustained.	4-1. Timber harvesting continues to contribute to economic well-being.	4-1.1 Actual harvest volume compared to the apportionment across the DFA over each 5 year cut control period.	100%	+/- 10%	Reported annually. Measured on anniversary of cut control period.	Consensus - May 9, 06
5		Economic				4-1.2 Percent compliance with waste and residue standards.	100%	≤5%	Measured annually. Number of inspections indicating compliance	Consensus - May 9, 06
5		Economic			4-2. The public (stakeholders, residents and interested parties) continues to receive a portion of the benefits.	4-2.1 Canfor to provide opportunities to purchase wood from private enterprises.	Opportunity exists	N/A	Private enterprises include any legal source such as woodlot owners, mining claims, private land, non-replaceable forest licenses, etc.	Consensus - Apr 25, 06
						4-2.2 The number of first order wood products produced from trees harvested from the DFA.	5	≤2		Consensus - Apr 25, 06
						4-2.3 The percent of money spent on forest operations and management on the DFA provided from northern central interior (NCI) suppliers (Stumpage not included).	Report out on		NCI is defined as Smithers to McBride and 100 Mile House to Fort St. John. Intent is, to the extent possible, support business within the NCI.	Consensus - Apr 25, 06
						4-2.4 The number of support opportunities provided to the public (stakeholders, residents and interested parties).	Report out on		Support opportunities include community support services, <i>pro bono</i> work, training opportunities to small contractors, etc. (Canfor only) - Report out on dollars spent and types of opportunities offered.	Consensus - Apr 25, 06
						4-2.5 Report out on the amount of money directed towards environmental projects.	Report out on		Refers to inventory, monitoring, research and enhancement.	Consensus - May 9, 06
					4-3. Governments continue to receive a portion of the benefits.	4-3.1 Municipal taxes paid to governments.	100%	0%	Measured annually.	Consensus - Feb 20, 07
						4-3.2 Stumpage paid to government.	100%	0%	Measured annually.	Consensus - Apr 25, 06
					4-4. Opportunities to receive a portion of the benefits exist for First Nations.	4-4.1 The number of support opportunities provided to First Nations with Treaty area and/or asserted traditional territory within the DFA.	Report out on		Support opportunities include community support services, <i>pro bono</i> work, training opportunities, etc. (Canfor only). Report out the number of opportunities provided and the number of First Nations provided with opportunities.	Apr 25, 06 Indicator accepted - with 1 dissension; measure accepted - with 1 dissension

CCFM Criterion	CSA SFM Element	Value	FW Criteria	Criteria	Indicator	Measure	Target	Variance	Comments	PAG Recommendation
						4-4.2 The number of contract opportunities provided to First Nations with Treaty area and/or asserted traditional territory within the DFA.	Report out on		Report out on the number of opportunities provided and the number of First Nations provided with opportunities.	Apr 25, 06 Measure accepted - with 1 dissension
						4-4.3 The total value of transactions undertaken with First Nations with Treaty area and/or asserted traditional territory within the DFA.	Report out on		Transactions include monetary donations and contracts.	Consensus - Apr 25, 06
					4-5. A competitive, diversified forestry sector exists.	4-5.1 The percentage of DFA volume advertised for sale through open competitive bid.	40%	-5%	Measured annually. DFA volume is defined as Canfor and BCTS apportionment.	Consensus - May 9, 06
						4-5.2 A competitive primary milling facility is sustained.	≥2	0	Canfor only.	Consensus - May 9, 06
					4-6. Levels of forest damaging events or agents are managed such that their economic impact is minimized.	4-6.1 Percentage of identified risk factors with updated management strategies.	100%	0%	Repeat measure. Catastrophic change associated with forest health, global climate change, etc. Initial completion March 31, 2007.	Consensus - May 9, 06
						4-6.2 Areas with stand damaging agents will be prioritized for treatment.	100%	-10%	Measured annually. Treatment may include harvesting. Some PAG members do not want chemical treatment used or have a specific concern about the use of MSMA. Stand damaging agents do not include competitive vegetation.	Consensus - May 9, 06
						4-6.3 Number of hectares (area) damaged by accidental forestry-related industrial fires.	<100 ha	+5ha	Repeat measure. Measured annually. Refinement of the target will be done pending analysis (Sept. 2006). Target combined between Canfor and BCTS	Consensus - May 9, 06
		Economic	5	C V. The flow of marketed non-timber economic benefits from forests is sustained.	5-1. Amount and quality of marketed non-timber forest resources does not decline over the long-term.	5-1.1 List of existing and documented potential for marketed non-timber benefits.	Report out on		Develop a list for the management unit – completion June 30, 2007.	Indicator: Consensus with one abstention- May 9, 06. Measure: Consensus - May 9, 06
						5-1.2 Description of potential implications of SFM practices on the amount and quality of marketed non-timber values.	Report out on		Report out – dependent on list developed in 5-1.1 and report out by on or before March 31, 2008	Consensus - May 9, 06 Amended Mar 28, 2007
						5-1.3 The percentage of forest operations consistent with range requirements as identified in operational plans and/or site plans.	100%	0%	Measured annually	Consensus - May 9, 06
		Economic	6	C VI. Forest management contributes to a diversified local economy.	6-1. Employment and income sources and their contribution to the local economy continue to be diversified.	6-1.1 Employment supported by each sector of the local economy (actual and percentage of total employment).	Report out on		Report out in conjunction with TSR. Local economy is defined as the TSA and areas immediately adjacent to the TSA.	Consensus - May 9, 06
						6-1.2 Contribution of income sources from each sector of the local economy (actual and percentage of total income).	Report out on		Report out in conjunction with TSR.	Consensus - May 9, 06
						6-1.3 The number of opportunities given to businesses within, or immediately adjacent to the TSA to provide non-tendered services to forest management activities.	Report out on		Measured annually. Report out on the number of opportunities provided and the number of businesses provided with opportunities.	Consensus - May 9, 06
						6-1.4 The number of first order wood products produced from trees harvested from the DFA.	5	≤2	Repeated measure. Measured annually.	Consensus - May 9, 06
						6-1.5 The number of support opportunities provided within, or immediately adjacent to, the TSA.	Report out on		Repeat of measure 4-4.1. Support opportunities include community support services, <i>pro bono</i> work, training opportunities, etc. (Canfor only). Report out the number of opportunities provided and the number of communities, organizations, or individuals provided with opportunities.	Consensus - May 9, 06

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6	6.3	Social	7	C VII. Decisions guiding forest management on the DFA are informed by and respond to a wide range of social and cultural values.	7-1. Forest management planning adequately reflects the interests and issues raised by the public (stakeholders, residents and interested parties) in the DFA through an effective and meaningful (to the participants) public participation process.	7-1.1 Implement and update a comprehensive list of stakeholders and affected or interested parties.	1	0	Measured annually.	Consensus - Feb. 14, 06
						7-1.2 The number of opportunities for PAG to review and provide comment on the SFMP.	≥1	0	Measured annually.	Consensus - Feb. 14, 06
						7-1.3 Number of Public Advisory Group meetings per year.	≥ 1	0	Measured annually.	Consensus - Feb. 14, 06
						7-1.4 The level of satisfaction of the PAG members with the process.	100%	-20%	To be measured after each meeting, based on the average result of question M12 from the PAG meeting evaluation form. Satisfaction is defined as a rating of 4 or better. Results to be provided at the following meeting.	Consensus - Feb. 14, 06
						7-1.5 Maintain and review at least annually and as required the Mackenzie SFMP PAG TOR, to ensure a credible and transparent process.	≥1	0	Measured annually	Consensus - Feb. 14, 06
						7-1.6 Survey residents, stakeholders and First Nations regarding their satisfaction with forest management (process and outcomes).	once in year 1, every 3 years thereafter	0	Survey population to include residents of rural communities.	Consensus - Feb. 14, 06
						7-1.7 Percentage of the public sectors as defined in the ToR invited to participate in the PAG process.	100%	0%	Measured annually. Includes also those sectors that may have been removed from the TOR (lack of representation).	Consensus - Feb. 14, 06
						7-1.8 Percentage of PAG satisfaction with amount and timing of information presented for informed decision-making.	100%	-20%	To be measured after each meeting, based on the average result of question M10 from the PAG meeting evaluation form. Satisfaction is defined as a rating of 4 or better. Results to be provided at the following meeting.	Consensus - Feb. 14, 06
						7-1.9 Report out on consistency of Indicators or measures with LRMP objectives.	Report out on		For areas common to both plans. PAG wants to ensure that SFMP measures reflect LRMP intent.	Consensus - May 9, 06
	6.4	Social	7		7-2. Information is effectively exchanged between DFA forest resource managers and the public through a varied and collaborative planning approach to facilitate mutual understanding and recognition.	7-2.1 The number of opportunities given to the public and stakeholders to express forestry-related concerns and be involved in our planning processes.	6	-2	Measured annually, opportunities may include PAG, open houses, annual reports, referrals, mailings, etc.	Consensus - Feb. 14, 06
						7-2.3 The percent of timely responses to written and documented concerns.	100%	-5%	Measured annually. Timely response is defined as 30 days from receipt. Includes letters, email, and faxes.	Consensus - Feb. 14, 06
						7-2.4 Distribution/access to SFM Plan, annual reports and audit results.	1	0	Canfor and BCTS to update annually their respective web pages with current documents.	Consensus - Feb. 20, 07
						7-2.5 The number of SFM educational opportunities and interactions provided.	2	0	Measured annually.	Consensus - Feb. 14, 06
						7-2.6 Percentage of mutually agreed upon communication strategies met.	100%	-5%	Communication strategies are on an individual basis. April 2007	Consensus - May 9, 06
Clause 4.1, 4.2, 7	CSA clause 4.1, 4.2, 7	Social	7		7-3. An adaptive management program is implemented for all levels of the Framework (Strategic, Tactical, Operational).	7-3.1 Adaptive Management strategy is developed, documented, acted upon and reviewed.	1	0	Measured annually.	Consensus - Feb. 14, 06
						7-3.2 Monitoring plan for indicators is developed, documented, acted upon and reviewed.	1	0	Measured annually.	Consensus - Feb. 14, 06

CCFM Criterion	CSA SFM Element	Value	FW Criteria	Criteria	Indicator	Measure	Target	Variance	Comments	PAG Recommendation
						7-3.3 Reports and analysis of monitoring information – Annual Report	1	0	Measured annually.	Consensus - Feb. 14, 06
		Social	8	C VIII. Forest management sustains or enhances the cultural (material and economic), health (physical and spiritual) and capacity benefits that First Nations derive from forest resources.	8-1. Forest management recognizes and respects First Nations rights and Treaty rights.	8-1.1 Percentage of forest operations consistent with the Heritage Conservation Act.	100%	0%	Measured annually.	Apr 25, 06 Indicator accepted - with 2 dissensions. Measure accepted with 1 dissension.
						8-1.2 Maintain and review at least annually and as required the Mackenzie SFMP PAG Terms of Reference to recognize that First Nation participation in the public process will not prejudice First Nation rights and Treaty rights.	≥1	0	Measured annually.	Apr 25, 06 Measure accepted with 1 dissension
					8-2. First Nations are provided with detailed, meaningful, and reciprocal knowledge pertaining to forest use as well as forest management plans prior to government approval and implementation.	8-2.1 The number of opportunities for First Nations to provide meaningful input into our planning processes.	≥2 per First Nation	0	Measured annually. Target is combined between Canfor and BCTS and relates to First Nations with Treaty area and/or asserted territory in the DFA.	Apr 25, 06 Indicator and measure accepted - with 1 dissension
					8-3. The relationship between forest management and First Nations' culture and tradition is acknowledged as important.	8-3.1 Percentage of issues raised by First Nations peoples evaluated and responded to in a timely manner by Canfor and BCTS.	100%	10%	Measured annually.	Apr 25, 06 Indicator and measure accepted - with 1 dissension
						8-3.2 Percentage of issues raised by First Nations' Chief & Council or their authorized representative developed into mutually agreed upon strategies.	100%	50%	Measured annually. Over time the intent is to decrease the variance. Canfor and BCTS are committed to addressing issues which are within their forest management purview. Report out on the number of communication protocols established with First Nations.	Apr 25, 06 Measure accepted - with 1 dissension
					8-4. Local management is effective in controlling their impact on the maintenance of and access to resources for First Nations.	8-4.1 Incorporation of mutually agreed upon strategies to address First Nation peoples' values, knowledge, and uses into SFMP, operational plans, tactical plans and/or site plans.	100%	0%	Measured annually. Intention is to incorporate the strategy into any one or all of the plans mentioned.	Apr 25, 06 Indicator accepted - with 2 dissensions, measure accepted with 1 dissension
						8-4.2 Percentage of forest operations consistent with mutually agreed upon strategies developed with First Nations.	100%	0%	Measured annually. Starts after mutually agreed upon strategies are in place.	Apr 25, 06 Measure accepted - with 1 dissension Amended Feb 20, 07
		Social	9	C IX. Forest management sustains ongoing opportunities for a range of quality of life benefits.	9-1. Resources and opportunities for recreation (including quality of experience) are maintained or enhanced.	9-1.1 The percentage of harvest operations consistent with results or strategies for recreation values as identified in operational plans, tactical plans and/or site plans.	100%	0%	Measured annually. Maintain existing access and integrity of recreation sites and trails. Resources and opportunities for recreation include berry picking, wildflowers (sensitive), bird watching, hiking, snowmobiling, canoeing, hunting, fishing, camping, skiing, etc.	Consensus - Feb 20, 07
					9-2. Visual quality of harvested/managed landscape is acceptable to a broad range of stakeholders/visitors.	9-2.1 The percentage of harvesting and road building operations consistent with visual quality requirements as identified in operational, tactical and/or site plans.	100%	0%	Measured annually.	Consensus - Feb 20, 07
						9-2.2 Percentage of harvest operations consistent with visually effective green-up buffer along roads as identified in the Mackenzie LRMP.	100%	0%	Measured annually. Harvesting may be allowed for forest health or salvage purposes.	Consensus - Feb 20, 07
					9-3. Forest management conserves unique and/or significant places and features of social, cultural or spiritual importance.	9-3.1 Percent of identified unique and/or significant places and features of social, cultural or spiritual importance that are managed or protected.	100%	0%	Measured annually. Identified resources include those identified within the FPC/FRPA or the Mackenzie LRMP.	Consensus - Feb 20, 07

CCFM Criterion	CSA SFM Element	Value	FW Criteria	Criteria	Indicator	Measure	Target	Variance	Comments	PAG Recommendation
					9-4. Worker safety is maintained.	9-4.1 Written safety policies in place and full implementation is documented.	2	0	Measured annually. One per organization.	Consensus - May 9, 06
						9-4.2 Number of lost time accidents in woodlands operations.	0	0	Measured annually. Includes Canfor and BCTS staff.	Consensus - May 9, 06
					9-5. Forest management considers public health and safety implications.	9-5.1 Signage on FSRs and main haul roads to be kept current.	100%	-5%	Measured annually for current operations.	Consensus - May 9, 06

Mackenzie

Sustainable Forest Management Plan



Mackenzie SFMP



2007/08 Annual Report



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1.0 Introduction

This is the second Annual Report of the Mackenzie Sustainable Forest Management Plan. It covers the reporting period of April 1, 2007 to March 31, 2008. The Sustainable Forest Management Plan (SFMP) is a result of the combined efforts of Canfor and British Columbia Timber Sales (BCTS) to achieve and maintain Canadian Standards Association (CSA) certification to the CSA Z809-02 standard. The signatories to the plan are:

1. BC Timber Sales, Mackenzie Business Area – Mackenzie Operations
2. Canadian Forest Products Ltd., Mackenzie Operations

The CSA Standard provides SFM specifications that include public participation, performance, and system requirements that must be met to achieve certification. These specifications were the framework for the development of the Mackenzie SFMP. Canfor and BCTS have existing management systems that contribute to the overall SFM strategy. These may include existing management systems such as ISO 14001 Environmental Management Systems, standard operating procedures, and internal policies.

One of the public participation strategies suggested in the CSA SFM Standard is the formation of a local group of interested and affected members of the public to provide input on an ongoing basis. This strategy provides the base for the formation of a Public Advisory Group (PAG) whose purpose is to achieve CSA standard's public participation requirements. Canfor and BCTS established a PAG to assist with the development of the SFMP. A wide range of public sector interest groups from within the Mackenzie Forest District were invited to participate in the SFM process through the PAG. After completing the Terms of Reference in January 2006, the PAG established the SFMP Criteria and Elements Performance Matrix with the SFMP being completed in June of 2006. It is important to note, the Mackenzie SFMP is a working document and is subject to continual improvement. Over time, the document will incorporate new knowledge, experience and research in order to recognize society's environmental, economic and social values.

This Annual Report measures the signatory's performance in meeting the measure targets outlined in the SFMP over the Mackenzie Defined Forest Area (DFA). The DFA is the Crown Forest land base within the Mackenzie Forest District and the traditional operating areas of Canfor and BCTS, excluding woodlots, Parks, Protected Areas and private land. The intent of this Annual Report is to have sustainable forest management viewed by the public as an open, evolving process that is taking steps to meet the challenge of managing the forests of the Mackenzie DFA for the benefit of present and future generations.

The following Table summarizes the results for the current reporting period. For clarification of the intent of the measures, indicators, objectives or the management practices involved, the reader should refer to the Mackenzie Sustainable Forest Management Plan Document.

1.1 List of Acronyms

Below is a list of common acronyms used throughout this annual report. For those wishing a more comprehensive list should consult the Mackenzie Sustainable Forest Management Plan.

AAC – Annual Allowable Cut
BCTS – BC Timber Sales
BEC – Biogeoclimatic Ecosystem Classification
BEO – Biodiversity Emphasis Option
BWBS – Black and White Boreal Spruce
CSA – Canadian Standards Association
CWD – Coarse Woody Debris
DFA – Defined Forest Area
ESSF – Engellman Spruce Sub-alpine Fir
FRPA – Forest and Range Practices Act
FSR – Forest Service Road
GIS – Geographic Information System
LOWG – Landscape Objective Working Group

LRMP – Land and Resource Management Plan
 LU – Landscape Unit
 MoFR – Ministry of Forest and Range
 NCI – North Central Interior
 NDT – Natural Disturbance Type
 NDU – Natural Disturbance Unit
 Non-Harvestable Land Base
 OGMA – Old Growth Management Area
 PAG – Public Advisory Group
 PFI – Peak Flow Index
 RMZ – Resource Management Zone (landscape-level planning)
 RMZ – Riparian Management Zone (riparian management)
 RRZ – Riparian Reserve Zone
 SAR – Species at Risk
 SBS – Sub-Boreal Spruce
 SFM – Sustainable Forest Management
 SFMP – Sustainable Forest Management Plan
 SWB – Spruce Willow Birch
 THLB – Timber Harvesting Land Base
 TOR – Terms of Reference
 TSA – Timber Supply Area
 VIA – Visual Impact Assessment
 VQO – Visual Quality Objective

1.2 Executive Summary

Of the 109 measures listed in Table 1, 84 measures were met within the prescribed variances, 7 measures are pending, and 18 measures were not met within the prescribed variances. A corrective and preventative action plan is contained in the measure discussions for each non-conformance measure.

Table 1: Summary of measure Status, April 1, 2007 to March 31, 2008.

No	Indicator Reference	Measure Number	Measure Description	Target Met	Pending	Target Not Met
1.	1-1	1-1.1	Old forest	X		
2.	1-1	1-1.2	Interior forest	X		
3.	1-1	1-1.3	Biodiversity Reserves	X		
4.	1-1	1-1.4	Biodiversity reserve effectiveness	X		
5.	1-1	1-1.5	Productive forest representation		X	
6.	1-2	1-2.1	Patch size	X		
7.	1-2	1-2.2	Coarse Woody Debris Levels	X		
8.	1-2	1-2.3	Wildlife tree patch requirements	X		
9.	1-2	1-2.4	Riparian Management area effectiveness			X
10.	1-2	1-2.5	Tree species composition		X	
11.	1-2	1-2.6	Caribou ungulate winter range effectiveness	X		
12.	1-2	1-2.7	Sedimentation	X		
13.	1-2	1-2.8	Stream crossings	X		
14.	1-2	1-2.9	Peak flow index		X	
15.	1-2	1-2.10	Road re-vegetation			X
16.	1-2	1-2.12	Road environmental risk assessments	X		
17.	1-3	1-3.1	Caribou ungulate winter range	X		
18.	1-3	1-3.2	Species at risk identification	X		
19.	1-3	1-3.3	Species at risk management			X
20.	1-3	1-3.4	LRMP wildlife management			X
21.	1-3	1-3.5	Species at risk management effectiveness	X		
22.	1-3	1-3.6	LRMP wildlife management effectiveness	X		
23.	1-3	1-3.7	Mugaha Marsh Report	X		
24.	1-4	1-4.1	Biodiversity reserves	X		
25.	1-4	1-4.2	Biodiversity reserves effectiveness	X		
26.	1-4	1-4.3	Sites of biological significance identification			X
27.	1-4	1-4.4	Sites of biological significance management	X		

No	Indicator Reference	Measure Number	Measure Description	Target Met	Pending	Target Not Met
28.	1-4	1-4.5	Sites of biological significance effectiveness	X		
29.	2-1	2-1.1	Coarse woody debris	X		
30.	2-1	2-1.2	Soil conservation effectiveness	X		
31.	2-1	2-1.3	Terrain management effectiveness	X		
32.	2-1	2-1.4	Reportable spills	X		
33.	2-1	2-1.5	Site Index		X	
34.	2-2	2-2.1	Site conversion	X		
35.	2-2	2-2.2	Permanent access structures	X		
36.	2-2	2-2.3	Access management communication	X		
37.	2-3	2-3.1	Regeneration delay	X		
38.	2-3	2-3.2	Free growing	X		
39.	2-3	2-3.3	Stocking and species composition	X		
40.	2-3	2-3.4	Tree species composition		X	
41.	2-4	2-4.1	Terrain management effectiveness	X		
42.	2-5	2-5.1	Accidental fires	X		
43.	2-5	2-5.2	Risk factor management			X
44.	3-1	3-1.1	Site conversion	X		
45.	3-1	3-1.2	Coarse woody debris	X		
46.	3-1	3-1.3	Regeneration delay	X		
47.	3-1	3-1.4	Free growing	X		
48.	3-1	3-1.5	Stocking and species composition	X		
49.	3-1	3-1.6	Soil conservation effectiveness	X		
50.	3-2	3-2.1	Site conversion	X		
51.	3-2	3-2.2	Stocking and species composition	X		
52.	3-2	3-2.3	Regeneration delay	X		
53.	3-2	3-2.4	Free growing	X		
54.	4-1	4-1.1	Harvest volumes			X
55.	4-1	4-1.2	Waste and Residue			X
56.	4-2	4-2.1	Wood purchases	X		
57.	4-2	4-2.2	First-order wood products	X		
58.	4-2	4-2.3	Local investment	X		
59.	4-2	4-2.4	Support of public initiatives	X		
60.	4-2	4-2.5	Support of environmental projects	X		
61.	4-3	4-3.1	Taxes	X		
62.	4-3	4-3.2	Stumpage	X		
63.	4-4	4-4.1	Support of First Nations	X		
64.	4-4	4-4.2	Contract opportunities to First Nations	X		
65.	4-4	4-4.3	Value of transactions with First Nations	X		
66.	4-5	4-5.1	Competitive sale of timber	X		
67.	4-5	4-5.2	Primary milling facilities	X		
68.	4-6	4-6.1	Risk factor management			X
69.	4-6	4-6.2	Forest stand damaging agents	X		
70.	4-6	4-6.3	Accidental fires	X		
71.	5-1	5-1.1	Non-timber benefits		X	
72.	5-1	5-1.2	SFM implication on non-timber values		X	
73.	5-1	5-1.3	Range management effectiveness	X		
74.	6-1	6-1.1	Employment	X		
75.	6-1	6-1.2	Income	X		
76.	6-1	6-1.3	Business opportunities	X		
77.	6-1	6-1.4	First order wood products	X		
78.	6-1	6-1.5	Support opportunities	X		
79.	7-1	7-1.1	List of affected parties	X		
80.	7-1	7-1.2	SFMP review (PAG)			X
81.	7-1	7-1.3	Meetings (PAG)	X		
82.	7-1	7-1.4	Satisfaction (PAG)			X
83.	7-1	7-1.5	TOR review (process)			X
84.	7-1	7-1.6	Satisfaction (affected parties)	X		
85.	7-1	7-1.7	Representation (PAG)			X
86.	7-1	7-1.8	Communication (PAG)			X
87.	7-1	7-1.9	SFMP consistency with LRMP	X		
88.	7-2	7-2.1	Concerns (affected parties)	X		
89.	7-2	7-2.3	Response to concerns			X

No	Indicator Reference	Measure Number	Measure Description	Target Met	Pending	Target Not Met
90.	7-2	7-2.4	SFMP availability (affected parties)	X		
91.	7-2	7-2.5	SFMP training (affected parties)	X		
92.	7-2	7-2.6	Communication strategy effectiveness	X		
93.	7-3	7-3.1	Adaptive management	X		
94.	7-3	7-3.2	Monitoring plan	X		
95.	7-3	7-3.3	Annual report			X
96.	8-1	8-1.1	Heritage conservation	X		
97.	8-1	8-1.2	TOR review (First Nations Rights)	X		
98.	8-2	8-2.1	Participation (First Nations)	X		
99.	8-3	8-3.1	Concerns (First Nations)			X
100.	8-3	8-3.2	Participation effectiveness (First Nations)			X
101.	8-4	8-4.1	Participation effectiveness (First Nations)	X		
102.	8-4	8-4.2	Implementation effectiveness (First Nations)	X		
103.	9-1	9-1.1	Recreation	X		
104.	9-2	9-2.1	Visual quality	X		
105.	9-2	9-2.2	Green-up buffers	X		
106.	9-3	9-3.1	Resource features	X		
107.	9-4	9-4.1	Safety policies	X		
108.	9-4	9-4.2	Accidents	X		
109.	9-5	9-5.1	Signage	X		
			Totals	84	7	18

1.3 SFM Performance Reporting

This annual report will describe the success of Canfor and BCTS in meeting the measure targets over the DFA. The report will be available to the public and will allow for full disclosure of forest management activities, successes, and failures. Canfor and BCTS have reported individual performance within their traditional operating areas as well as the performance which contributes to shared measures and targets across the plan area. Both Canfor and BCTS are committed to work together to fulfill the Mackenzie SFMP commitments including data collection and monitoring, participation in public processes, producing public reports, and continuous improvement.

2.0 SFM Indicators, Measures, Targets and Variances

Indicator 1-1 | Measure 1-1.1 Old forest

Measure Statement	Target and Variance
Percent area of old and mature+old seral stage by landscape unit group and BEC variant for CFLB within the DFA.	Target: As per the Mackenzie TSA Biodiversity Order Variance: 0%

This measure was chosen to monitor the amount of mature and old forest within each Landscape Unit (LU) group. It is assumed that maintenance of all seral stages across the landscape will contribute to sustainability because doing so is more likely to provide habitat for multiple species as opposed to creating landscapes of uniform seral stage. Emphasis is placed on old forest because many species use older forests and the structural elements found therein (e.g. large snags, coarse woody debris, and multilayer canopies). These structural elements are difficult to regenerate in younger forests.

The targets for Mackenzie TSA draft biodiversity order are based on the targets in the provincial order in that a Biodiversity Emphasis Option (BEO) is assigned to LU groups. Instead of reporting the current percentages by each LU and BEC variant, the order combines smaller landscape units with larger ones and also combines certain BEC units for the practicality of providing a reasonable landbase area on which to achieve the targets.

Table 2: Old, Old/Mature, and Old Interior Forest Retention on the Mackenzie Defined Forest Area
(See appendix 1 for Table 2)

Source: February 6, 2008 Analysis Results
Measure Discussion:

What Happened?	Rationale Why (Root Cause)?	Action Plan
Of the 67 BEC group / Landscape Unit Grouping combinations represented in the Mackenzie DFA and contained in the "Non-spatial Landscape Biodiversity Objectives in the Mackenzie Forest District" currently 94% (63) have old forest in excess of the target established in the objective.	One LU, the "Connaghan/ Eklund/ Jackfish/S. Germansen - U. Manson" was identified as deficit in old forest prior to the order coming into affect. The remaining LU Groups are small components of the Nation, and Selwyn LUs where the BEC group makes up less than 2000 hectares of the landbase in the Landscape unit. 96% (64) BEC groups represented have sufficient old and mature to meet targets established through the LRMP. The Kennedy and Selwyn deficits were identified prior to the order being established and the Nation shortfall is associated with a very small unit as above.	Propose to the PAG in 2009 to revise the indicator statement to report out on Landscape units where we operate over the reporting period, rather than report out on all Landscape units.

Indicator 1-1 | Measure 1-1.2 Interior Forest

Measure Statement	Target and Variance
Percent of interior old forest by landscape unit group and BEC variant for CFLB within the DFA.	Target: As per the Mackenzie TSA Biodiversity Order Variance: 0%

Interior forest conditions refer to a situation where climatic and biotic characteristics are not significantly affected by adjacent and different environmental conditions (e.g., other seral stages, other forest or non-forest types, etc.). This measure is important because provision of habitat for old-forest dependent species (see measure 1-1.1) can only occur if old forests are not significantly affected by adjacent environmental conditions. Historically, natural disturbance events such as fire, insects, and wind led to diverse landscapes characterized by forests having these interior old forest conditions. Thoughtful planning of harvesting patterns can minimize "fragmentation" of the forested landscape and help create interior old forest conditions. Furthermore, the intent

of this measure is to have interior old forest conditions represented within all ecosystem types to further enhance ecosystem resilience.

Table 2: Old, Old/Mature, and Old Interior Forest Retention on the Mackenzie Defined Forest Area
(See appendix 1 for Table 2)

Source: February 6, 2008 Analysis Results
Measure Discussion:

What Happened?	Rationale Why (Root Cause)?	Action Plan
Of the 67 BEC group / Landscape Unit Grouping combinations represented in the Mackenzie DFA and contained in the "Non-spatial Landscape Biodiversity Objectives in the Mackenzie Forest District" currently 99% (66) have old interior forest in excess of the target established in the objective.	The exception is a very small unit in the Nation LU where there is less than 2000 hectares of landbase occupied by the BEC group.	Propose to the PAG in 2009 to revise the indicator statement to report out on Landscape units where we operate over the reporting period, rather than report out on all Landscape units.

Indicator 1-1 | Measure 1-1.3 Biodiversity Reserves

Measure Statement	Target and Variance
The amount of established landscape biodiversity reserves within the DFA.	<u>Target:</u> > area set aside across the DFA <u>Variance:</u> - 0.5%

We classify two kinds of reserves based on their relative size and hence the spatial resolution at which they are most effective: 1) the stand level, including mapped wildlife tree patches and riparian reserve areas and 2) the landscape level, including provincial parks and all other large reserve areas that are removed from the timber harvesting land base. This measure is used to evaluate the amount of productive forest reserved within the DFA.

Table 2: Biodiversity Reserves across the DFA

Landscape Level Biodiversity Reserves	Reserve Area (ha.)	DFA Area (ha.)	Percent of DFA
Bijoux Falls Park	35.3	2,117,199	0.69%
Blackwater Creek Ecological Reserve	292.0		
Muscovite Lakes Park	5,711.5		
Patsuk Creek Ecological Reserve	538.2		
Tudyah Lake Park	52.1		
Ungulate Winter Range	7,925		
Totals	14,554.1		

Source: GIS

Measure Discussion: There has been no change to the total areas set aside for biodiversity reserves since the Sustainable Forest Management Plan was written.

Indicator 1-1 | Measure 1-1.4 Biodiversity Reserve Effectiveness

Measure Statement	Target and Variance
Hectares of unauthorized forestry-related harvesting or road construction within protected areas or established old growth management areas (OGMA)	<u>Target:</u> 0 ha. <u>Variance:</u> 0 ha.

The area of landscape level biodiversity reserves in the DFA is described in the measure 1-1.3. Current practice is to adhere to all legislative requirements, including the respecting of protected areas. Using GIS and spatial databases, operational plans are planned and reviewed to ensure no forestry activities are planned within protected areas or OGMA's.

Table 3: Hectares of unauthorized harvest or road construction within the DFA

Signatory	Protected Area or Established Old Growth Management Area		Total in DFA
	Area of Harvest	Area of road Construction	

Canfor	0.0	0.0	0.0
BCTS	0.0	0.0	0.0
Total	0.0	0.0	0.0

Source: GIS

Indicator 1-1 | Measure 1-1.5 Productive Forest Representation

Measure Statement	Target and Variance
Percent productive forest by BEC variant represented within the Non-harvestable land base	<u>Target:</u> To be established following analysis (Sept 2007) <u>Variance:</u>

With the current status and targets unknown, forecasting for this measure is that an analysis of the percent productive forest by BEC variant represented within the non-harvestable land base will be completed by September, 2007. Forecasting and trends may be updated following completion of analysis and setting of targets.

Table 4: Productive Forest Ecosystem by BEC

BEC Variant	DFA Area (ha)	THLB Area (ha)	Percent of DFA (%)	NHLB Area (ha)	Percent of DFA (%)
AT	137,420	64	0.0%	553	0.4%
BWBS dk1	129,526	76,054	58.7%	46,110	35.6%
BWBS mw1	10,247	3,689	36.0%	5,953	58.1%
BWBS wk2	21,097	12,442	59.0%	7,641	36.2%
ESSF mv2	10,880	6,205	57.0%	3,873	35.6%
ESSF mv3	314,568	200,277	63.7%	92,126	29.3%
ESSF mv4	330,448	113,448	34.3%	152,437	46.1%
ESSF mvp	92,940	2,489	2.7%	18,608	20.0%
ESSF wc3	174,961	46,040	26.3%	68,444	39.1%
ESSF wcp	58,320	1,359	2.3%	8,187	14.0%
ESSF wk2	111,798	62,900	56.3%	39,488	35.3%
SBS mk1	257,289	189,083	73.5%	41,785	16.2%
SBS mk2	175,296	115,469	65.9%	37,831	21.6%
SBS vk	6,720	4,798	71.4%	1,819	27.1%
SBS wk1	8,872	6,766	76.3%	1,257	14.2%
SBS wk2	226,617	154,520	68.2%	57,015	25.2%
SBS mk	14,672	5,105	34.8%	7,201	49.1%

Source: GIS

Measure Discussion:

The current status of this indicator is pending further discussions with the PAG regarding setting reasonable targets and variances.

Indicator 1-2 | Measure 1-2.1 Patch Size

Measure Statement	Target and Variance
Percent area by patch size class by landscape unit group and Natural Disturbance Types.	<u>Target:</u> Trend towards targets in LRMP <u>Variance:</u> N/A

Harvesting activities serve to mimic natural disturbance events characteristic within the Mackenzie DFA. Past social constraints associated with harvesting and resulting patch size have led to fragmentation of the landscape beyond the natural ranges of variability, which has developed over centuries from larger scale natural disturbance. In order to remain within the natural range of variability of the landscape and move toward sustainable management of the forest resource, it is important to develop and maintain patch size targets based on historical natural patterns. This measure will monitor the consistency of harvesting patterns compared to the landscape unit group and the natural patterns of the landscape.

The data in tables 6, 7, and 8 represents the current status of the measure as of March 31, 2008. The shading of the cells indicates whether or not the licensees are trending towards or away for the targets, as compared to

the previous reporting period. Cells with no shading indicate that the actual percentage is within the target range. The forecasting of planned harvesting activities will help to identify the future condition of forest stands, overall patch size influence and the future status of this measure based on the identified assumptions.

Table 5: Current Early Patch size distribution in the Enhanced resource management zone¹.

LU Grouping	NDT	BEC	Patch size category						
			<40 ha		40- 80 ha* 40-250 ha**		80-250+ ha* 250-5000 ha**		250+ ha* 5000+ ha**
			Target	Actual	Target	Actual	Target	Actual	Info Only
Akie/Akie River	2	SWB mk	30-40%	0%	30-40%	89%	20-40%	11%	0%
	2	ESSF mv4	30-40%	2%	30-40%	35%	20-40%	63%	30%
	3	BWBS dk1	10-20%	8%	10-20%	52%	60-80%	39%	0%
Blackwater/ Muscovite	2	SBS wk2	30-40%	4%	30-40%	4%	20-40%	92%	86%
	2	ESSF mv3	30-40%	6%	30-40%	38%	20-40%	56%	41%
	3	SBS mk1	10-20%	0%	10-20%	4%	60-80%	96%	0%
	3	SBS mk2/ BWBS dk1	10-20%	2%	10-20%	4%	60-80%	95%	74%
Buffalohead/ Ed Bird - Estella	2	ESSF mv4	30-40%	17%	30-40%	63%	20-40%	20%	0%
	2	SWB mk	30-40%	37%	30-40%	62%	20-40%	1%	0%
	3	BWBS dk1	10-20%	15%	10-20%	66%	60-80%	19%	0%
Collins - Davis	1	ESSF wc3	30-40%	5%	30-40%	0%	20-40%	95%	95%
	1	ESSF wk2	30-40%	0%	30-40%	18%	20-40%	82%	50%
	2	ESSF mv4	30-40%	2%	30-40%	22%	20-40%	76%	64%
	2	SBS wk2	30-40%	6%	30-40%	19%	20-40%	75%	61%
	3	BWBS dk1	10-20%	4%	10-20%	49%	60-80%	47%	0%
	3	SBS mk2	10-20%	4%	10-20%	12%	60-80%	83%	61%
Philip	3	SBS mk1	10-20%	6%	10-20%	14%	60-80%	81%	21%
	3	SBS mk2	10-20%	3%	10-20%	0%	60-80%	97%	0%
Germansen Mountain	2	ESSF mv3	30-40%	0%	30-40%	0%	20-40%	100%	0%
	3	BWBS dk1	10-20%	0%	10-20%	100%	60-80%	0%	0%

* = NDT 1 and 2 patch size categories.

** = NDT 3 patch size category.

Meets target	Trending Towards	Trending Away
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Table 6: Current Early Patch size distribution in the general and special resource management zones².

LU Grouping	NDT	BEC	Patch size category						
			<40 ha		40- 80 ha* 40-250 ha**		80-250+ ha* 250-5000 ha**		250+ ha* 5000+ ha**
			Target	Actual	Target	Actual	Target	Actual	Info Only
Clearwater	1	ESSF wk2/ ESSF wc3	30-40%	17%	30-40%	29%	20-40%	54%	1%
	2	ESSF	30-40%	0%	30-40%	8%	20-40%	92%	46%

¹ March 31, 2008 data

² March 31, 2008 data

		mv2							
	2	SBS wk2	30-40%	21%	30-40%	15%	20-40%	64%	15%
Lower Ospika	1	ESSF wc3	30-40%	10%	30-40%	0%	20-40%	90%	90%
	1	ESSF wk 2	30-40%	3%	30-40%	0%	20-40%	97%	97%
	2	ESSF mv 4	30-40%	2%	30-40%	0%	20-40%	98%	44%
	2	SBS wk 2	30-40%	0%	30-40%	0%	20-40%	100%	82%
	3	SBS mk2	10-20%	9%	10-20%	33%	60-80%	57%	43%
Nabesche	1	ESSF wc3	30-40%	0%	30-40%	3%	20-40%	97%	97%
	1	ESSF wk2	30-40%	7%	30-40%	9%	20-40%	84%	0%
	2	ESSF mv4	30-40%	50%	30-40%	45%	20-40%	5%	0%
	2	SBS wk2	30-40%	0%	30-40%	4%	20-40%	96%	0%
	3	BWBSdk 1	10-20%	10%	10-20%	43%	60-80%	46%	0%
Nation	3	SBS mk2	10-20%	1%	10-20%	39%	60-80%	60%	60%
	2	SBS wk2	30-40%	7%	30-40%	6%	20-40%	86%	86%
	3	SBS mk1	10-20%	4%	10-20%	23%	60-80%	73%	63%
Parsnip	3	SBS mk2	10-20%	0%	10-20%	1%	60-80%	99%	99%
	1	ESSF wc3/ ESSF wk2	30-40%	91%	30-40%	0%	20-40%	9%	0%
	2	SBS wk2/vk	30-40%	18%	30-40%	15%	20-40%	66%	0%
	3	SBS mk1	10-20%	4%	10-20%	9%	60-80%	88%	18%
Pesika	3	SBS mk2	10-20%	3%	10-20%	44%	60-80%	54%	38%
	2	ESSF mv4	30-40%	3%	30-40%	21%	20-40%	77%	0%
Philip/Philip Lake/Tudyah A	3	BWBSdk 1	10-20%	23%	10-20%	77%	60-80%	0%	0%
	2	ESSF mv3	30-40%	18%	30-40%	0%	20-40%	82%	7%
Schooler	2	SBS wk2	30-40%	8%	30-40%	14%	20-40%	78%	55%
	2	ESSF mv4	30-40%	0%	30-40%	100%	20-40%	0%	0%
	3	BWBSmw 1	10-20%	100%	10-20%	0%	60-80%	0%	0%
Selwyn	3	BWBSmk 2	10-20%	8%	10-20%	58%	60-80%	34%	0%
	2	SBS wk2	30-40%	8%	30-40%	28%	20-40%	64%	32%
Lower Akie/Lower Pesika	3	SBS mk 2	10-20%	0%	10-20%	0%	60-80%	0%	0%
	3	BWBS dk1	10-20%	1%	10-20%	17%	60-80%	82%	0%

* = NDT 1 and 2 patch size categories.

** = NDT 3 patch size category.

Meets target	Trending Towards	Trending Away
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Table 7: Current Early Patch size distribution in the caribou management zones³.

³ March 31, 2008 data

LU Grouping	NDT	BEC	Patch size category						
			<40 ha		40-250		250-5000		5000+ ha
			Target	Actual	Target	Actual	Target	Actual	Info Only
Connaghan/ Eklund/Jackfish/ S. Germansen - U. Manson	2	ESSF mv3	30-40%	1%	30-40%	28%	20-40%	71%	30%
	2	SBS wk2	30-40%	4%	30-40%	0%	20-40%	96%	82%
	3	SBS mk1	10-20%	27%	10-20%	73%	60-80%	0%	0%
	3	BWBS dk 1	10-20%	19%	10-20%	81%	60-80%	0%	0%
Gaffney/Manson River	2	ESSF mv3	30-40%	8%	30-40%	20%	20-40%	72%	49%
	2	SBS wk2	30-40%	9%	30-40%	17%	20-40%	74%	60%
	3	SBS mk1/ mk2	10-20%	8%	10-20%	33%	60-80%	60%	7%
Gillis/Klawli	2	ESSF mv3	30-40%	12%	30-40%	7%	20-40%	81%	64%
	3	BWBSdk 1	10-20%	45%	10-20%	22%	60-80%	33%	0%
	3	SBS mk1	10-20%	14%	10-20%	37%	60-80%	50%	0%
Misinchinka/ Kennedy	2	SBS vk	30-40%	13%	30-40%	8%	20-40%	79%	3%
	2	SBS wk1	30-40%	13%	30-40%	7%	20-40%	81%	61%
	2	SBS wk2	30-40%	13%	30-40%	20%	20-40%	67%	18%
	3	SBS mk1	10-20%	4%	10-20%	16%	60-80%	80%	0%
Twenty Mile	2	ESSF mv3	30-40%	0%	30-40%	0%	20-40%	100%	0%
	3	BWBS dk1	10-20%	0%	10-20%	100%	60-80%	0%	0%

Meets target	Trending Towards	Trending Away
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Source: GIS

Measure Discussion:

What Happened?

Forest cover information is updated every 5 years in preparation for timber supply analysis. However, short-term updates for reporting purposes may be completed internally by the Canfor and BCTS. For this reason, many of the patch size categories indicate actual trending away from the target ranges. Patch size analysis is very dynamic and the results can change dramatically year by year.

Rationale

Why (Root Cause)?

In many respects, patch size patterns have developed over the past 30 years largely influenced by cutblock size and leave patterns. In recent years, harvesting has been dictated by forest health factors. It is anticipated that patch size will trend towards LRMP targets, however many will also trend away from targets in the short term due to the effects of the massive mountain pine beetle infestation and associated attempts to maximize recovery of the dead timber.

Action Plan

Propose to the PAG to revise the indicator statement to reflect a trending towards targets rather than meeting the targets in all cases. Also to target the Landscape units where the licensees are active. This will remove the requirement to report out on Landscape unit groups where there is no harvesting completed during the reporting period. Also, it will address the ever changing dynamic nature of patch size analysis.

Indicator 1-2 | Measure 1-2.2

Coarse Woody Debris Levels

Measure Statement	Target and Variance
The percent of cutblocks that exceed coarse woody debris requirements.	Target: 100% Variance: 0%

Coarse woody debris (CWD) as a habitat element provides: 1) nutrients for soil development, 2) structure in streams to maintain channel stability, 3) food and shelter for animals and invertebrates, and 4) growing sites for plants and fungi,. Past forestry practices have encouraged the removal of CWD from sites for a number of economic and/or safety reasons, presumably to the detriment of biological diversity. We use this measure

following harvesting to quantify CWD retained in blocks, wildlife tree patches, riparian areas, and in areas of unsalvaged timber. Within the NHLB we assume that natural processes will result in the maintenance of appropriate levels of CWD.

Post-harvest CWD levels will be measured as a standard component of either the silviculture survey or residue and waste survey. The interim target for CWD was taken from the FRPA *Forest Planning and Practices Regulation, Sec. 68* default requirements (BC. Reg 14/2004). Although the PAG members felt that this number was inadequate to protect this element of biodiversity, they recognized that insufficient information exists to determine either the amount of CWD left behind after harvesting or the amount of CWD that occurs in natural pre-harvest stands. Even so, we expect significantly more CWD than the target is retained after harvest and have committed to developing a more comprehensive CWD strategy pending availability of more data.

Table 8: Cut Blocks Exceeding Course Woody Debris Requirements

Signatory	Total Number of Blocks Harvested	Number of Cutblocks Harvested exceeding CWD requirements	Overall %
Canfor	13	13	100.0%
BCTS	43	43	100.0%
TOTAL	56	56	100.0%

Source: GIS

Measure Discussion:

Indicator 1-2 | Measure 1-2.3 Wildlife Tree Patch Requirements

Measure Statement	Target and Variance
Percentage of cutblocks that meet or exceed wildlife tree patch requirements.	Target: 100% Variance: 0%

Stand level retention, including wildlife tree patches, is managed by each signatory in the DFA on a site-specific basis. During the development of a cut block, retention areas are delineated based on a variety of factors. Stand level retention generally occurs along riparian features and will include non-harvestable and sensitive sites if they are present in the planning area. Stand level retention also aims to capture a representative portion of the existing stand type to contribute to ecological cycles on the land base. Retention level in each block is documented in the associated Site Plan, recorded in the signatories' respective database systems and reported out in RESULTS on an annual basis.

Table 9: Percent of cutblocks exceeding WTP requirements

Signatory	Total Number of Cutblocks Harvested	Number of Cutblocks Harvested exceeding WTP requirements	Overall %
Canfor	13	13	100.0%
BCTS	43	43	100.0%
TOTAL	56	56	100.0%

Source: Signatory Site Plans

Measure Discussion:

Indicator 1-2 | Measure 1-2.4 Riparian Management Area Effectiveness

Measure Statement	Target and Variance
The percentage of forest operations consistent with riparian management area requirements as identified in operational plans and/or site plans.	Target: 100% Variance: 0%

Riparian features found in the field are assessed during the block lay-out stage to determine its riparian class and associated RRZ/RMZ. Appropriate buffers are then applied, considering other factors such as operability and windfirmness. Prescribed measures, if any, to protect the integrity of the RMA are then written into the Operational Plan. The target is a legal requirement. The target value of 100% has been established to reflect this and to ensure that all riparian management practices, specifically RRZ designation and management, continue to remain consistent with the pre-harvest operational plans.

Table 10: Riparian Management Area Effectiveness

Signatory	Number of Forest Operations with Riparian Management Strategies identified in Operational Plans				Number of Forest Operations completed in accordance with identified strategies	%in DFA
	Roads	Harvest	Silviculture	Total		
Canfor	38	13	3	54	54	100.0%

BCTS	23	39	0	62	60	96.8%
TOTAL	61	52	3	116	114	98.3%

Source: Signatory Operational Plans

Measure Discussion:

What Happened?

- 1) TSL A81382 Block 1056 had 5 m machine free zone along S6 stream, but licensee did not follow.
- 2) TSL A63473 Block 10 had logs in culvert potential blocking an S6 stream at high stream flows, although no damage was observed.

BCTS Rationale Why (Root Cause)?

Root cause was not completed for these 2 instances.

Action Plan

- 1) Reported A81382 to C&E who had no issue, as no legislation was breached. ITS-TPG2007-CM0032.
- 2) Licensee removed logs on crossing in TSL A63473 Block 10. ITS-TPG2008-CN0032.

Preventative Action: In both instances, training of licensees in EFP's related to riparian measures is required.

Indicator 1-2 | Measure 1-2.5 Tree Species Composition

Measure Statement	Target and Variance
Trend toward unmanaged species composition on managed stands by BEC zone on the THLB.	<u>Target:</u> TBD <u>Variance:</u> TBD

Current condition for this measure still needs to be assessed. Baseline data has not yet been developed and the signatories do not currently track this measure, although the data is available in the signatories' respective databases. Processes are being developed that will allow the data to be extracted in a meaningful format to track and report out on the measure.

Table 11: Tree species composition

Source:

Measure Discussion: The current status of this indicator is pending further discussions with the PAG regarding setting reasonable targets and variances.

Indicator 1-2 | Measure 1-2.6 Caribou Ungulate Winter Range Effectiveness

Measure Statement	Target and Variance
The percentage of forest operations consistent with approved provincial Caribou Ungulate Winter Range requirements.	<u>Target:</u> 100% <u>Variance:</u> 0%

All cutblocks in approved ungulate winter ranges will be consistent with the management guidelines in the approved Order for Ungulate Winter Range #U-7-009. The order prescribes specific objectives to maintain mountain caribou winter range, to provide high suitability snow interception, cover, and foraging opportunities. Site plans prepared for these areas will reflect these objectives. This is a legal obligation of the signatories, modeling does not apply to this measure, although it is anticipated that caribou populations would be negatively impacted if targets are not achieved. Forecasting for this measure is that 100% of blocks will be consistent with approved provincial Caribou Ungulate Winter Range requirements.

Table 12: Forest Operations Consistent with Caribou Ungulate Winter Range requirements

Signatory	Number of Forest Operations with Caribou Ungulate Winter Range Strategies				Forest Operations Consistent with Identified Strategies	% in DFA
	Roads	Harvesting	Silviculture	Total		
Canfor	38	13	3	54	54	100.0
BCTS	30	43	0	73	73	100%
TOTAL	68	56	3	127	127	100%

Source: Signatory Operational Plans

Measure Discussion: Canfor: There were no caribou ungulate winter ranges designated in Canfor's operating areas during the reporting period.

Indicator 1-2 | Measure 1-2.7 Sedimentation

Measure Statement	Target and Variance
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The percentage of identified unnatural sediment occurrences where mitigating actions were taken.	<u>Target:</u> 100% <u>Variance:</u> <5%
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Sedimentation occurrences are detected by forestry personnel during stream crossing inspections, road inspections, silviculture activities, and other general activities. In addition, Canfor supervisors routinely fly their operating areas annually following spring freshet to look for any such occurrences. While in some situations the sites may have stabilized so that further sedimentation does not occur, in other cases mitigating actions may have to be conducted. This may involve re-contouring slopes, installing siltation fences, re-directing ditch lines, grass seeding, or deactivating roads.

Table 13: Unnatural sediment occurrences and mitigating actions

Signatory	Number of identified unnatural sediment occurrences	Number of identified unnatural sediment occurrences with mitigating actions taken	% in DFA
Canfor	1	1	100%
BCTS	1	1	100%
TOTAL	2	2	100%

Source: Inspection monitoring reports

Indicator 1-2 | Measure 1-2.8 Stream Crossings

Measure Statement	Target and Variance
Percentage of stream crossings appropriately designed and properly installed and/or removed.	<u>Target:</u> 100% <u>Variance:</u> <5%

Forestry roads can have a large impact on water quality and quantity when they intersect with streams, particularly by increasing sedimentation into water channels. Sediment is a natural part of streams and lakes as water must pass over soil in order to enter a water body, but stream crossings can dramatically increase sedimentation above normal levels. Increased sedimentation can damage spawning beds, increase turbidity, and effect downstream water users. When stream crossings are installed and removed properly, additional sedimentation may be minimized to be within the natural range of variation. Erosion control plans and procedures are used to ensure installations and removals are done properly. To calculate the success of this measure it is important to ensure that a process is in place to monitor the quality of stream crossings, their installation, removal, and to mitigate any issues as soon as possible.

Table 14: Appropriately designed and installed stream crossings

Signatory	Number of Stream Crossings			Number of Stream Crossings			% Total
	Installed	Removed	Total	Appropriately designed and properly installed	Properly removed	Total	
Canfor	1	6	7	1	6	7	100.0%
BCTS	35	0	35	34	0	34	97.0%
TOTAL	36	6	42	35	6	41	97.6%

Source: Inspection monitoring reports

Indicator 1-2 | Measure 1-2.9 Peak Flow Index

Measure Statement	Target and Variance
Percent of watersheds containing approved or proposed development with Peak Flow Index calculations completed.	<u>Target:</u> 100% by September 2007 <u>Variance:</u> + 7 months

The signatories have determined that 100% of PFIs can be calculated by September, 2007 for watersheds where the signatories have approved or proposed development. Once the PFI calculations are complete, the results will be reported back to the PAG. Watersheds will then be evaluated to establish PFI targets. Once these targets are established, harvesting plans will have to consider the impact harvesting will have on the watershed in which it occurs. The goal is to maintain peak flows within the target PFI to avoid excessive amounts of peak flow runoff. Licensees are collaborating on the development of Peak Flow Indices on or before September of 2007.

Table 15: Peak Flow Index

Signatory	Number of watersheds with approved/proposed development in the DFA	Number of watersheds with Peak Flow Index calculations	Total % DFA
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Canfor	N/A	N/A	N/A
BCTS	N/A	N/A	N/A
TOTAL	0	0	N/A

Source: GIS analysis

Measure Discussion: Peak flow calculations are complete for all watersheds within the DFA. Unfortunately, they were complete outside the reporting period. They will be reported as completed in the 2008-2009 annual report.

Indicator 1-2 | Measure 1-2.10 Road Re-vegetation

Measure Statement	Target and Variance
Percentage of road construction or deactivation projects where prescribed re-vegetation occurs within 12 months of disturbance.	Target: 100% Variance: -10%

This measure was chosen as a way to assess our ability to minimize or at least reduce the anthropogenic effect of forest roads on adjacent ecosystems. In keeping with the common assumption of coarse-and medium-resolution biodiversity, our underlying assumption with this measure was – re-vegetating roads will reduce the potential anthropogenic effects that roads have on adjacent ecosystems by minimizing potential for silt runoff or slumps, the amount of exposed soil, the potential for invasive plants to become established, and returning at least a portion of forage and other vegetation to conditions closer to those existing prior to management.

Table 16: Road re-vegetation within 12 months of disturbance

Signatory	Total Number of Projects Where Re-vegetation is Prescribed	Number of Prescribed Re-vegetation Projects Completed within 12 months of disturbance	% in DFA
Canfor	4	4	100%
BCTS	61	21	34.4%
TOTAL	65	25	38.5%

Source:

Measure Discussion:

What Happened?

This measure has not been met due to the fact that there has been a decision to not use or enforce the grass seeding clause on TSL Licensees for their respective TSL Roads. BCTS has also been building most of their FSRs in the winter requiring more than 12 months building a road as additional work is usually required the following year.

BCTS Rationale Why (Root Cause)?

Within BCTS Mackenzie, there has not been an adequate amount of resources within the Field Team to get caught up on grass seeding projects for a number of years for both TSL roads and FSRs.

Action Plan

BCTS Mackenzie is in the process of seeding their backlog of roads. Pending a consistent level of resources, buy-in to consider having Licensees carry out grass seeding, as well as completing road construction repair work during the summer, Mackenzie could be caught up within 2 years and able to meet this measure.

See APN-TPG2008-ITS0029 for follow up action

Indicator 1-2 | Measure 1-2.12 Road Environmental Risk Assessment

Measure Statement	Target and Variance
Percentage of planned roads that have an environmental risk assessment completed.	Target: 100% Variance: <10%

Environmental risk assessments provide a measure of “due diligence” in avoiding accidental environmental damage that has potential to occur from forest development in conditions of relatively unstable soil. Through the implementation of risk assessments, we expect to maintain soil erosion within the range that would normally occur from natural disturbance events under unmanaged conditions. Our assumption was – the more we can resemble patterns of soil erosion existing under unmanaged conditions, the more likely it will be that we do not introduce undue anthropogenic effects, from road construction, on adjacent ecosystems. The completion of environmental risk assessments on roads is completed by field staff during road layout and is inputted into the signatories' respective databases. The assessments provide the basis for future road inspection requirements and highlight areas of special concern that may require professional geotechnical or design work. All assessments are completed in accordance to documented procedures.

Table 17: Planned roads with environmental risk assessments completed

Signatory	Total Number of roads constructed	Number of constructed roads with environmental risk assessments completed	% in DFA
Canfor	38	38	100%
BCTS	44	44	100%
TOTAL	82	82	100%

Source: Genus

Measure Discussion:

Indicator 1-3 | Measure 1-3.1 Caribou Ungulate Winter Range

See Measure 1-2.6

Indicator 1-3 | Measure 1-3.2 Species at Risk Identification

Measure Statement	Target and Variance
Percentage of appropriate personnel trained to identify Species at Risk in the DFA.	Target: 100% Variance: <10%

Identification of those animal and bird species and plant communities that have been declared to be at risk by appropriate personnel is crucial if they are to be conserved. Appropriate personnel are key staff and consultants that are directly involved in operational forest management activities. By implementing training to identify Species at Risk the potential for disturbing these species and their habitat decreases. Maintaining all populations of native flora and fauna in the DFA is vital for sustainable forest management, as all organisms are components of the larger forest ecosystem.

Table 18: Appropriate personnel trained in Species at Risk Identification

Signatory	Number of appropriate personnel	Number of appropriate personnel trained in Species at Risk Identification	Percent in DFA (%)
Canfor	17	17	100%
BCTS	16	13	81.3
TOTAL	33	30	90.9

Source: Signatory training records

Measure Discussion:

What Happened?

During the 2007-2008 reporting period an online training program was still under development.

**BCTS Rationale
Why (Root Cause)?**

New staff that joined after the SAR training took place was not able to be trained in SAR within the reporting period.

Action Plan

The training system and online manual is now in place, and the measure will be met for the 2008-2009 reporting period.

Indicator 1-3 | Measure 1-3.3 Species at Risk Management

Measure Statement	Target and Variance
Percent of Species at risk in the DFA that have management strategies developed by April 2007.	Target: 100% Variance: 0%

Development and implementation of management strategies for Species at Risk requires knowledge of how many forest dependant species inhabit a managed area. While the concept of biodiversity includes all organisms of a particular region, assessing forest dependant species at all trophic levels is neither feasible nor operationally practical. A review of Species at Risk flora and fauna in relation to the Mackenzie DFA should ideally consider all forest dependent species. For this indicator, the review of fauna will generally focus on vertebrates such as fish, mammals, birds, amphibians and reptiles currently identified as provincial red and blue listed species. Provincially Identified Wildlife, red and blue listed Plant communities, and Red listed plants will also be reviewed for the DFA based on a summary listing from the BC Conservation Data Center. Licensees have been collaborating on the development of management strategies for species at risk in the DFA.

Table 19: Management Strategies for Species at Risk in the DFA

Signatory	Number of Species at Risk in the DFA	Number of Species at Risk with Management Strategies Developed by April 2007	% in DFA
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Canfor	67	41	61.2%
BCTS	67	67	100%
TOTAL	67	67	100%

Source: BCTS SAR training manual – June 2008 version

Measure Discussion:

Indicator 1-3 | Measure 1-3.4 LRMP Wildlife Management

Measure Statement	Target and Variance
Percent of LRMP Resource Management Zone (RMZ) specific wildlife species with management strategies before April 2007.	Target: 100% Variance: 0%

The Mackenzie LRMP established strategic direction for the conservation of regionally significant wildlife species within each Resource Management Zone in the Mackenzie Timber Supply Area. In principle, these strategic directions are consistent with the maintenance of productive populations of selected species and therefore provide a measure of our trend toward biological richness. We assume that maintaining individual species contributes directly to biological diversity. Concurrently, through the use of this measure we also subscribe to the social balance of ecological, economic, and social values created through consensus at the Mackenzie LRMP. The Mackenzie LRMP prescribes objectives for 14 different species, either as general management directions applicable throughout the TSA, or as direction applicable only to specific RMZs. (See April 25, 2006 handout to PAG). The following species are listed in the LRMP as having specific management objectives; arctic grayling, bull trout, eagles, elk, lake trout, marten, moose, mountain goat, northern goshawk, osprey, peregrine falcon, rainbow trout, stone sheep, and trumpeter swan. Of these, bull trout, arctic grayling, eagles, osprey, peregrine falcon, northern goshawk, and marten are subject to general management direction.

Going forward, the signatories are collaborating on the development of management strategies for site of biological significance in the DFA by April of 2007.

Table 20: LRMP specific Wildlife Management Strategies

Signatory	Number of RMZ-Specific Wildlife Species	Number of RMZ-Specific Wildlife Species with Management Strategies Developed by April 2007	% in DFA
Canfor	14	3	21.4%
BCTS	14	4	28.6%
TOTAL	14	4	28.6%

Source: Signatory Operational Plans

Measure Discussion: Canfor currently has a policy dealing with “Wildlife Features”, which are consistent with management direction in the LRMP, particularly pertaining to stick nests of eagles, osprey, and goshawk (Caldwell, 2006). As a result, Canfor has management strategies in place for 3 of the 14 species listed, or 21.4%.

What Happened?	BCTS Rationale Why (Root Cause)?	Action Plan
BCTS current management strategies cover 4 of the above listed species. (arctic grayling, bull trout, lake trout, rainbow trout).	BCTS failed to allocate sufficient resources to develop the additional strategies during the reporting period.	During the 2008-2009 reporting period, the signatories will compare the species list to management strategies already covered off under other measures. The signatories will then assemble management strategies for the remaining species. An alternate approach to this measure is to remove the duplication / overlap with other similar measures for wildlife, and propose to the PAG to modify the measure statement to reflect only the relevant species.

Indicator 1-3 | Measure 1-3.5 Species at Risk Management Effectiveness

Measure Statement	Target and Variance
Percentage of forest operations consistent with Species at Risk in the DFA management strategies as identified in operational plans, tactical plans, and/or site plans.	Target: 100% Variance: <5%

The measure is intended to monitor the consistency between forest operations with approved provincial Species at Risk Notice/ Orders requirements as identified in operational plans. Being consistent with these requirements will ensure that the habitats that are required to support these Species at Risk will be maintained. Overall

ecosystem productivity will be maintained by ensuring these species continue to play their roles in the healthy functioning of the DFA's forests. Notices and Orders are legal entities created through Government Regulations. As such, approved species at Risk Notice/ Orders requirements identified in operational plans must be adhered to.

Table 21: Forest Operations consistent with Management Strategies for Species at Risk in the DFA

Signatory	Number of Forest Operations with Species at Risk Management Strategies Identified in Operational Plans				Forest Operations Completed in Accordance with Identified Strategies	% in DFA
	Roads	Harvesting	Silviculture	Total		
Canfor	38	13	3	54	54	100.0%
BCTS	30	43	0	73	72	98.6%
TOTAL	68	56	3	127	126	99.2%

Source: Signatory Operational Plans

Measure Discussion:

What Happened?

Operational shortfall related Contract # EN2008TPGMA-001 for construction of Gilles FSR to access TSL A80499. Road site plan stated "road construction must be scheduled during snow-free months to avoid creating travel corridors for wildlife into the sale area". However, contractor continued to operate over the course of the winter of 2007/2008, ending March 31, 2008.

Contract coordinator and contract officer not aware of specific information in road site plan. Specifically, timing restrictions for construction. Timing restrictions were overlooked as proposed road construction schedule didn't provide for construction during snow-free months. Road construction contract was amended to extend operating window for contractor without full review of site plan requirements (timing of operations).

BCTS Rationale

Why (Root Cause)?

Lack of formalized procedure to translate site plan requirements to road construction contract and contract amendments.

Action Plan

This incident is in GENUS EMS as ITS-TPG2007-CN0036.

Corrective Action: Caribou expert from Wildlife Infometrics has been consulted, and determined that no damage occurred, as dates in road site plan were too exclusive. Site plan has now been amended.

Preventative action: Redesign business process for road construction contracts and multiphase development to ensure that road site plan requirements are incorporated into contract clauses.

Indicator 1-3 | Measure 1-3.6 LRMP Wildlife Management Effectiveness

Measure Statement	Target and Variance
Percentage of forest operations consistent with LRMP Resource Management Zone (RMZ) specific wildlife species management strategies as identified in operational plans, tactical plans, and/or site plans.	Target: 100% Variance: <5%

Through use of this measure we extend that of 1-3.4 by addressing actual implementation of strategic direction identified within the Mackenzie LRMP for the conservation of specific wildlife species. In principle, these strategic directions are consistent with the maintenance of productive populations of selected species and therefore provide a measure of our trend toward biological richness. We assume that maintaining individual species contributes directly to biological diversity. Concurrently, through the use of this measure we also subscribe to the social balance of ecological, economic, and social values created through consensus at the Mackenzie LRMP.

Table 22: Forest Operations consistent with Management Strategies for LRMP specific wildlife in the DFA

Signatory	Number of Forest Operations with RMZ-Specific Wildlife Management Strategies Identified in Operational Plans				Forest Operations Completed in Accordance with Identified Strategies	% in DFA
	Roads	Harvesting	Silviculture	Total		
Canfor	0	0	0	0	-	100%
BCTS	40	42	0	82	82	100%
TOTAL	40	42	0	82	82	100%

Source: Signatory Operational Plans

Indicator 1-3 | Measure 1-3.7 Mugaha Marsh Report

Indicator Statement	Target and Variance
Report out on the annual results from the Mugaha Marsh bird banding station.	Report out on

This measure was proposed by the PAG and accepted as a measure in part to recognize the important work that is being completed at the banding station and the data that is resulting from it. The bird-banding station at Mugaha Marsh has been a long-standing (since 1995) monitoring station collaboratively operated by the Mackenzie Nature Observatory and the Canadian Wildlife Service. Through operation of the station, trends in migratory birds can be assessed locally and contribute to a broader program at national and international levels. The data help provide a measure of species, and therefore, biological richness under the assumption that maintenance of individual species contributes directly to biological diversity. Banding at the station was completed for the year with a total of 3189 birds being banded comprised of 68 different species. A detailed breakdown of species captured, number captured, and the number of return captures for 2006 will be available following publication of the Mugaha Marsh banding station annual report.

Table 23: Mugaha Marsh Report

Mugaha Marsh Banding Station Banding Totals				
Species	Number Banded			2007 Total
	July	August	September	
Merlin		1		1
Wilson's Snipe		1	3	4
Calliope Hummingbird	3			3
Rufous Hummingbird	4			4
Belted Kingfisher			1	1
Yellow-bellied Sapsucker	4			4
Red-breasted Sapsucker	2			2
Hybrid Sapsucker	2	1		3
Downy Woodpecker	14	2		16
Hairy Woodpecker	2			2
Three-toed Woodpecker		2		2
Flicker Intergrade			1	1
Western Wood-Pewee	8	2		10
Yellow-bellied Flycatcher		1		1
Alder Flycatcher	14	99	6	119
Least Flycatcher	46	42		88
Hammond's Flycatcher	6	35	2	43
Dusky Flycatcher	7	6		13
Pacific-slope Flycatcher	4	2		6
Solitary Vireo	3			3
Blue-headed Vireo		1		1
Warbling Vireo	22	35	2	59
Black-capped Chickadee	2	15	7	24
Hybrid Chickadee			1	1
Red-breasted Nuthatch		1		1
Brown Creeper		3		3
Winter Wren			1	1
Golden-crowned Kinglet		10	28	38
Ruby-crowned Kinglet	14	48	221	283
Gray-cheeked Thrush		1		1
Swainson's Thrush	24	105	16	145
Hermit Thrush	2	2	17	21
American Robin	8	6	3	17
Cedar Waxwing	19	8		27
Tennessee Warbler		5	2	7

Orange-crowned Warbler	13	55	56	124
Yellow Warbler	33	116	1	150
Magnolia Warbler	7	68	7	82
Yellow-rumped Warbler	14	64	28	106
Audubon's Warbler	2	8	7	17
Myrtle Warbler			4	4
Townsend Warbler		10	2	12
Blackpoll Warbler	3	27	4	34
American Redstart	64	196	16	276
Ovenbird		6	1	7
Northern Waterthrush	81	229	18	328
MacGillivray's Warbler	3	20		23
Common Yellowthroat	22	55	100	177
Wilson's Warbler	1	103	17	121
Western Tanager	11	4		15
American Tree Sparrow			10	10
Chipping Sparrow		2	9	11
Clay-colored Sparrow	1	1		2
Brewer's Sparrow			1	1
Savannah Sparrow	1	8	5	14
Fox Sparrow		2	8	10
Song Sparrow	27	4	4	35
Lincoln's Sparrow	20	11	8	39
Swamp Sparrow	1	1		2
White-throated Sparrow	5	16	3	24
White-crowned Sparrow		10	22	32
Golden-crowned Sparrow	1			1
Dark-eyed Junco	13	15	31	59
Oregon Junco		12	32	44
Slate-colored Junco			3	3
Rusty Blackbird	8			8
Brown-headed Cowbird	1			1
Purple Finch	2	4		6
White-winged Crossbill		4	1	5
Pine Siskin	99	251	10	360
Evening Grosbeak		1		1
Total	644	1746	709	3099
Net hours	808.25	1988.75	1458.5	4255.5

Mugaha Marsh Banding Station Returns July 19th to September 23rd, 2007		
Species	Year	Total
Downy Woodpecker	1(06), 1(05)	2
Alder Flycatcher	1(03)	1
Least Flycatcher	2(05)	2
Solitary Vireo	1(04)	1
Warbling Vireo	1(06)	1
Black-capped Chickadee	1(06)	1
Swainson's Thrush	1(03), 1(01)	2
Yellow Warbler	3(06), 1(05), 2(04), 2(03)	8
Unknown Yellow -rumped Warbler	1(06)	1
American Redstart	5(06), 2(05), 2(04), 1(03)	10
Northern Waterthrush	2(06), 4(04), 2(02)	8
Common Yellowthroat	2(06), 2(05)	4
Common Yellowthroat	2(06)	2

Song Sparrow	2(06), 1(04), 1(03)	4
Unidentified Dark Eyed Junco	1(06)	1
Orange Junco	1(05)	1
Northern Saw-whet Owl	1(06)	1
Red-breasted Nuthatch	1(06)	1
Orange Crowned Warbler	1(05)	1
Northern Waterthrush	2(05), 3(03)	5
Western Tanager	1(04)	1
Lincoln' Sparrow	1(03)	1
Total		36

Source: Mugaha Marsh Annual Report

Indicator 1-4 | Measure 1-4.1 Biodiversity Reserves

See Measure 1-1.3

Indicator 1-4 | Measure 1-4.2 Biodiversity Reserves Effectiveness

See Measure 1-1.4

Indicator 1-4 | Measure 1-4.3 Sites of Biological Significance identification

Measure Statement	Target and Variance
Percentage of appropriate personnel trained to identify sites of biological significance in the DFA.	Target: 100% Variance: <10%

Sites of biological significance are sites that may support red and blue listed plant communities and rare ecosystems. Sites of biological significance also include protected areas which the Canadian Standards Association defines as "an area protected by legislation, regulation, or land-use policy to control the level of human occupancy or activities" (Canadian Standards Association, 2002). Protected areas can include national, provincial parks, multiple use management areas, and wildlife reserves. Sites of biological significance also include such features as bald eagle or osprey nest, mineral licks, species at risk habitats and other habitats designated by government. Appropriate personnel include key signatory staff and consultants that are directly involved in operational forest management activities. Having appropriate personnel trained to identify sites of biological significance will reduce the risks of forestry activities damaging these sites. The protection of all forest components is an integral aspect of Sustainable Forest Management, which recognizes the value of all organisms to the health of the forest ecosystem. Tracking the percent of personnel trained to identify sites of biological significance will allow licensees to ensure their knowledge is used appropriately to protect these sites in the DFA.

Table 24: Appropriate personnel trained in sites of biological significance Identification

Signatory	Number of appropriate personnel	Number of appropriate personnel trained in Sites of Biological Significance Identification	Percent in DFA (%)
Canfor	17	0	0%
BCTS	16	13	81.3
TOTAL	33	13	39.4%

Source: Signatory training records

Measure Discussion: Canfor: While most appropriate personnel have received information regarding several types of sites of biological significance (mineral licks, raptor nests, denning sites, wallows).

What Happened?	BCTS Rationale Why (Root Cause)?	Action Plan
During the 2007-2008 reporting period an online training program was still under development.	New staff that joined after the "sites of biological significance" training took place was not able to be trained within the reporting period.	The training system and online manual is now in place, and the measure will be met for the 2008-2009 reporting period.

Indicator 1-4 | Measure 1-4.4 Sites of Biological Significance Management

Measure Statement	Target and Variance
Percent of sites of biological significance that have management strategies developed by April 2007.	Target: 100% Variance: 0%

In the Mackenzie DFA the application of landscape and stand level biodiversity management measures contribute to the maintenance of most biodiversity needs. These management approaches are "coarse filter", i.e., they represent general measures to conserve a variety of wildlife species. However, coarse filter guidelines may not be sufficient to ensure the conservation of sites of biological significance. Specific management strategies may be required to ensure that these sites are maintained within the DFA. This measure will ensure that specific management (fine filter) strategies are developed to conserve and manage sites of biological significance. Many types of sites of biological significance are sufficiently known to allow the development of special management areas, or prescribe activities that will appropriately manage these areas. The management strategies will be based on information already in place (e.g., National Recovery Teams of Environment Canada, IWMS Management Strategy), legislation (provincial and national parks), Land and Resource Management Plans (LRMPs), and recent scientific literature. Management strategies will be implemented in operational plans such as site plans to ensure the protection of these sites. This measure is not due until April of 2007. Going forward, the signatories are collaborating on the development of management strategies for site of biological significance in the DFA by April of 2007.

Table 25: Management Strategies for Sites of biological Significance in the DFA

Signatory	Number of sites of biological significance in the DFA	Number of Sites of biological significance with Management Strategies Developed by April 2007	% in DFA**
Canfor	9	9	-
BCTS	9	9	100%
TOTAL	9	9	100%

Source:**Measure Discussion:****Indicator 1-4 | Measure 1-4.5 Sites of Biological Significance Effectiveness**

Measure Statement	Target and Variance
Percentage of forest operations consistent with sites of biological significance management strategies as identified in operational plans, tactical plans, and/or site plans.	Target: 100% Variance: <5%

This measure evaluates the success of implementing specific management strategies for sites of biological significance as prescribed in operational, tactical and/or site plans. As discussed in previous measures, various sites of biological significance exist in the Mackenzie DFA and the signatories have set a target date of April 2007 to develop management strategies for these sites. Once these strategies are in place, operational plans such as site plans describe the actions needed to achieve these strategies on a site specific basis. Once harvesting and other forest operations are complete, an evaluation is needed to determine how well these strategies were implemented. Developing strategies and including them in operational, tactical and/or site plans are of little use if the actions on the ground are not consistent with them. Tracking this consistency will ensure problems in implementation are identified and corrected in a timely manner.

Table 26: Forest Operations consistent with Management Strategies for sites of Biological Significance in the DFA

Signatory	Number of Forest Operations consistent with Sites of biological significance Management Strategies Identified in Operational Plans				Forest Operations Completed in Accordance with Identified Strategies	% in DFA
	Roads	Harvesting	Silviculture	Total		
Canfor	38	13	3	54	54	100%
BCTS	30	43	0	73	73	100%
TOTAL	68	56	3	127	127	100%

Source: Signatory Operational Plans

Indicator 2-1 | Measure 2-1.1 Coarse Woody Debris

See Measure 1-2.2

Indicator 2-1 | Measure 2-1.2 Soil Conservation Effectiveness

Measure Statement	Target and Variance
Percentage of forest operations consistent with soil conservation standards as identified in operational plans and/or site plans.	Target: 100% Variance: 0%

Conserving soil function and nutrition is crucial for sustainable forest management. To achieve this, forest operations have limits on the amount of soil disturbance they can create. These limits are described in legislation in the Forest Planning and Practices Regulation, section 35. Soil disturbance is defined in this SFM plan as disturbance caused by a forest practice on an area, including areas occupied by excavated or bladed trails of a temporary nature, areas occupied by corduroy trails, compacted areas, and areas of dispersed disturbance. Soil disturbance is expected to some extent from timber harvesting or silviculture activities, but these activities are held to soil conservation standards in Site Plans (where they are more commonly known as "soil disturbance limits"). The Site Plan prescribes strategies for each site to achieve activities and still remain within acceptable soil disturbance limits.

Soil information is collected as a component of site plan preparation, and soil conservation standards are established based on the soil hazards for that block. To be within those limits there are several soil conservation strategies currently used. Forest operations may be seasonally timed to minimize soil disturbance. For example, fine-textured soils such as clays and silts are often harvested when frozen to reduce excessive compaction. EMS prework forms require equipment operators to be aware of soil conservation measures outlined in the site plans. Once an activity is complete the final EMS inspection form assesses the consistency with site plan guidelines. If required, temporary access structures are rehabilitated to the prescribed standards. Road construction within blocks is minimized, and low ground pressure equipment may be used where very high soil hazards exist

Table 27: Forest Operations consistent with soil conservation standards in the DFA

Signatory	Number of Forest Operations				Forest Operations Completed in Accordance with Soil Conservation Standards	% in DFA
	Roads	Harvesting	Silviculture	Total		
Canfor	38	13	3	54	54	100%
BCTS	30	43	0	73	73	100%
TOTAL	68	56	3	127	127	100%

Source: Signatory Operational Plans

Indicator 2-1 | Measure 2-1.3 Terrain Management Effectiveness

Measure Statement	Target and Variance
The percentage of forest operations consistent with terrain management requirements as identified in operational plans and/or site plans.	Target: 100% Variance: 0%

Some areas subject to forest operations occur on slopes that warrant special terrain management requirements in operational plans (usually the site plan). These unique actions are prescribed to minimize the likelihood of landslides or mass wasting. Terrain Stability Assessments (TSA) are completed on areas with proposed harvesting or road development that has been identified as either unstable or potentially unstable. The recommendations of the TSA are then integrated into the site plan or road layout/design and implemented during forest operations.

Table 28: Forest Operations consistent with Terrain Management Requirements

Signatory	Number of Forest Operations with Terrain Management Requirements Identified in Operational Plans				Forest Operations Completed in Accordance with Requirements	% in DFA*
	Roads	Harvesting	Silviculture	Total		
Canfor	0	1	0	1	1	100%
BCTS	4	6	0	10	10	100%
TOTAL	4	7	0	11	11	100%

Source: Signatory Operational Plans

Indicator 2-1 | Measure 2-1.4 Reportable Spills

Measure Statement	Target and Variance
The number of EMS reportable spills	Target: 0 Variance: < 5

All signatories currently have procedures in place for reducing and reporting spills. EMS checklists and monitoring procedures require the proper storage, handling, and labeling of controlled products. Such measures include proper storage tank construction, the use of shut off valves, availability of spill kits, and the construction of berms where required. EMS plans also include the measures to be taken in the event of a spill.

Table 29: The Number of EMS Reportable Spills

Signatory	Number of EMS Reportable Spills						
	Petroleum Products	Pesticides	Antifreeze	Battery Acid	Grease	Paints and Solvents	Total
Canfor	1	0	0	0	0	0	1
BCTS	0	0	0	0	0	0	0
TOTAL	1	0	0	0	0	0	1

Source: Signatory Incident Tracking System

Measure Discussion: No spills were reported for the reporting period.

Indicator 2-1 | Measure 2-1.5 Site Index

Measure Statement	Target and Variance
Variance between average pre-harvest and post harvest site index (at free growing) by inventory type group for cutblocks.	Target: >0 Variance: 0 %

Site index is an expression of the forest site quality of a stand, defined as the height of the dominant or codominant trees in a stand at a specified age. Site index equations are calculated for individual species using mensuration data. It is commonly used as an indicator of site productivity as it infers that trees or stands with greater growth at a given age have access to more key resources required for biomass production. The higher the site index for a given species in a given region, the higher the productivity or the quality of the site. Site index is sensitive to changes in ecological variables including soil nutrients, soil moisture, and others.

This measure provides a relative comparison of a post-harvest average site index (at free growing) compared to the pre-harvest site index (as represented by inventory estimates) in the THLB. Current condition for this measure is not known on a block-by-block basis as pre-harvest site index data is not readily available for blocks that are currently becoming free growing. The signatories are taking steps to remedy this and pre-harvest site index data now being tracked.

Table 30: Site Index Variance by Subzone and leading species

Source: N/A

Measure Discussion: Canfor: For this reporting period Canfor has not developed the tools to track this measure. Canfor will have such tools available for the next reporting period. However a site index adjustment project completed in 2005/06 indicates that site indices on managed stands in the SBS and BWBS is 24% higher for pine and 54% higher for spruce.

BCTS: Difficulty in defining the baseline site index groups has delayed assembling the first year data. Reporting for 2007-8 should be possible.

Indicator 2-2 | Measure 2-2.1 Site conversion

Measure Statement	Target and Variance
Area of THLB converted to non-forest land used through forest management activities.	Target: <5% Variance: 0%

In addition to maintaining the resources necessary for sustaining the resiliency of forest ecosystems, a stable land base within which productive capability is assessed is also required. In order to assess the maintenance of the productive capability of the land base, this measure specifically tracks the amount of productive land base loss due to various non-forest uses. Removal of the productive land base occurs as a result of permanent access structures, including roads, landings and gravel pits, as well as converting forested areas to non-forest land use, such as range, seismic lines and other mineral exploration.

Conversion of the THLB to non-forest land also has implications for carbon sequestration. A permanent reduction in the forest means that the removal of carbon from the atmosphere and carbon storage will be correspondingly reduced. The data that is required for monitoring is the number of hectares of productive forest area lost due to conversion to a non-forest use. This data collection and analysis is essentially a GIS exercise that can be completed at 5 year intervals concurrently with the Timber Supply Review process.

Table 31: Area of THLB converted to Non-forest land

Signatory	Total THLB	Area Converted to Non-forest Land	Percent of THLB Area
Canfor	624,762	20,402	3.4%
BCTS	411,007	7,650	1.9%
TOTAL	1,035,770	28,052	2.7%

Source: GIS analysis

Indicator 2-2 | Measure 2-2.2 Permanent Access Structures

Measure Statement	Target and Variance
The percentage of gross cutblock area occupied by total permanent access structures.	Target: <5% Variance: +1%

This indicator measures the amount of area developed as permanent access structures (PAS) within cutblocks, in relation to the area harvested during the same period. Limits are described in legislation in the Forest Planning and Practices Regulation, section 36. Permanent access structures include roads, bridges, landings, gravel pits, or other similar structures that provide access for timber harvesting. Area that is converted to non-forest, as a result of permanent access structures and other development is removed from the productive forest land base and no longer contributes to the forest ecosystem. Roads and stream crossings may also increase risk to water resources through erosion and sedimentation. As such, minimizing the amount of land converted to roads and other structures protects the forest ecosystem as a whole.

Table 32: Percent of permanent access structures in cutblocks within the DFA.

Signatory	Total Cutblock Area Harvested	Total Cutblock Area in Permanent Access Structures	Percent
Canfor	1146.9	38.2	3.3%
BCTS	1756.4	45.3	2.6%
TOTAL	2903.3	83.5	2.9%

Source:

Indicator 2-2 | Measure 2-2.3 Access Management Communication

Measure Statement	Target and Variance
Inclusion of access management in communication strategies with stakeholders.	Target: 100% Variance: 0%

Lack of coordinated plans for access to resources among multiple proponents seeking a range of resource development opportunities can lead to excessive and inefficient road networks. In turn, such road networks can lead to reduced forest productivity among other anthropogenic effects. Our assumption with this measure is simply that – by increasing communication about access plans among stakeholders, we can increase the efficiency of access to resources and thereby reduce any negative subsequent effects on forest productivity. Through use of this measure we expect to track our performance in this communication and hence our “due diligence” in indirectly maintaining forest productivity.

Table 33: Communication strategies with stakeholders regarding Access Management.

Signatory	Number of Communication Strategies with Stakeholders	Number of Communication Strategies That Include Access Management	Percent
Canfor	0	0	100.0%
BCTS	0	0	100.0%

TOTAL	0	0	100.0%
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Source: Signatory communication records

Indicator 2-3 | Measure 2-3.1 Regeneration Delay

Measure Statement	Target and Variance
Percent of harvested cutblocks declared stocked prior to the regeneration date consistent with operational plans	Target: 100% Variance: <5%

Regeneration delay is defined in this SFM plan as the time allowed in a prescription between the start of harvesting in the area and the earliest date by which the prescription requires a minimum number of acceptable, well-spaced trees per hectare to be growing in that area. There is a maximum permissible time allowed and comes from standards developed and/or approved by government. The regeneration delay period is usually within two years, where planting is prescribed and five years where the stand is expected to reforest naturally. Ensuring that all harvested stands meet the prescribed regeneration delay date within the specified time frame is an indication that the harvested area has maintained the ability to recover from a disturbance, thereby maintaining its resiliency and productive capacity. It also helps to ensure that a productive stand of trees is beginning to grow for use in future rotations. A regeneration survey is completed after planting to ensure adequate stocking of harvested blocks. The current status of this measure was derived from a review of signatories' records for the reporting period.

Table 34: Cutblock compliance to meeting the required regeneration delay date

Signatory	Area Required to Meet Regeneration Date During Period	Area Meeting Regeneration Date	% in DFA
Canfor	4029.3	4029.3	100.0%
BCTS	307.8	307.9	100.0%
TOTAL	4,337.1	4,337.1	100.0%

Source: Genus

Indicator 2-3 | Measure 2-3.2 Free Growing

Measure Statement	Target and Variance
Percent of harvested cutblocks declared free growing prior to the late free growing date consistent with operational plans.	Target: 100% Variance: <5%

A free growing stand is defined in this SFM plan as a stand of healthy trees of a commercially valuable species, the growth of which is not impeded by competition from plants, shrubs or other trees. The free growing status is somewhat dependent on the regeneration delay date of a forest stand and could be considered the next reporting phase. A free growing assessment is conducted on stands based on a time frame indicated in operational plans. The late free growing dates are established based on the biogeoclimatic classification of the site and the tree species prescribed for planting after harvest.

In order to fulfill mandates outlines in legislation, standards are set for establishing a crop of trees that will encourage maximum productivity of the forest resource (BC MOF 1995b). The free growing survey assesses the fulfillment of a Licensee's obligations to the Crown for reforestation and helps to ensure that the productive capacity of the forest land base to grow trees is maintained. Continued ecosystem productivity is ensured through the principle of free growing. This measure illustrates the percentage of harvested blocks that meet free growing obligations across the DFA.

Table 35: Cutblock compliance to meeting the required late free growing date

Signatory	Area Required to Meet Late Free Growing Date During Period	Area Meeting Late Free Growing Date	% in DFA
Canfor	4,149.5	4,149.5	100.0%
BCTS	112.8	112.8	100.0%
TOTAL	4,262.3	4,262.3	100.0%

Source: Genus

Indicator 2-3 | Measure 2-3.3 Stocking and Species Composition

Measure Statement	Target and Variance
Percent compliance with stocking levels and species composition requirements contained in operational plans.	Target: 100% Variance: <5%

Regeneration standards exist to ensure that appropriate species are reforested on harvested areas to within acceptable numbers. The Ministry of Forests sets out what species are preferred and acceptable for specific biogeoclimatic site series. Natural ingress of species that are not preferred or acceptable may occur. The stocking standard is linked to AAC calculations in terms of meeting the desired density and species composition of future stands. Once harvested, each cutblock is surveyed to ensure reforestation has occurred and that the stand is fully stocked with acceptable species. The results of all surveys are maintained in the signatories' respective databases. If a survey indicates that the stand has not regenerated successfully, corrective actions will be prescribed immediately in order to remedy the situation while still meeting regeneration delay deadlines. This information is also tracked in the signatories' respective databases.

Table 36: Percent compliance with stocking and species composition in harvested areas within the DFA

Signatory	Area Reforested During Period	Area Compliant With Stocking Levels and Species Composition Requirements	% in DFA
Canfor	2800	2800	100.0%
BCTS	1125.5	1125.5	100.0%
TOTAL	3,925.5	3,925.5	100.0%

Source: Genus

Indicator 2-3 | Measure 2-3.4 Tree Species Composition

See Measure 1-2.5

Indicator 2-4 | Measure 2-4.1 Terrain Management Effectiveness

See Measure 2-1.3

Indicator 2-5 | Measure 2-5.1 Accidental Fires

Measure Statement	Target and Variance
Number of hectares (area) damaged by accidental forestry-related industrial fires.	<u>Target:</u> <100 ha. <u>Variance:</u> +5 ha.

This measure calculates the number of hectares lost to industrial forest fires. As fire can result in catastrophic losses to the timber supply, wildlife, and private property, a high value has been placed on reducing the impact of these fires in the DFA. Accidental industrial fires can be caused by various sources, including escapes from the use of prescribed fire (e.g. burning slash piles) or from human induced error (e.g. machinery, cigarette smoking, etc.).

Industrial fires are usually brought under control quickly due to the availability of fire fighting equipment and the signatories Fire Preparedness Plans. In contrast, naturally caused fires have the potential to quickly grow in size before fire control efforts can be undertaken. However the area and extent of accidental industrial fires must be minimized throughout the DFA in order to contribute to the overall health of the forest and long-term sustainability of the resource.

Table 37: Area of accidental fires within the DFA

Signatory	Number of Accidental Forestry Related Industrial Fires	Total Hectares Damaged	Area in DFA
Canfor	0	0	0
BCTS	0	0	0
TOTAL	0	0	0

Source:

Indicator 2-5 | Measure 2-5.2 Risk Factor Management

Measure Statement	Target and Variance
Percentage of identified risk factors with updated management strategies.	<u>Target:</u> 100%. <u>Variance:</u> 0%.

Natural disturbance levels due to biotic and abiotic factors and associated risk levels are managed for resistance to catastrophic change and to ensure that the ability to recover on the landscape level is sustained. It is important to ensure that effective management strategies are in place in order to address the impacts of forest health factors on the range of forest related values in the DFA. Currently an annual Forest Health Strategy and

Tactical Plan ([BC MoFR, 2006](#)) is produced by the Ministry of Forest and Range in conjunction with major licensees and BCTS. Although the Plan identifies 26 risk factors, strategies are focused on mountain pine beetle and spruce bark beetles. Management strategies have also been developed through the Pine Stem Rust Working Group for western gall rust, stalactiform blister rust, and commandra blister rust. Signatories also have management strategies in place for such abiotic factors as windthrow, fire (fire preparedness plans), and landslides (terrain stability requirements, see Measure 2-1.3). Of the 26 risk factors identified, management strategies have been developed for 13.

Table 38: Percent of risk factors with updated management strategies in the DFA

Signatory	Number of Identified Risk Factors	Number of Identified Risk Factors with Updated Management Strategies	% in DFA
All	26	13	50.0%
TOTAL	26	13	50.0%

Source: Mackenzie TSA Forest Health Strategic Plan

Measure Discussion:

What Happened?	BCTS Rationale Why (Root Cause)?	Action Plan
Only 13 of the 26 identified risk factors have management strategies.	In the Ministry of forests annual Forest Health Strategy and Tactical Plan, only the ranked risk factors (13) are identified as a priority for management. The remainder are classed as not ranked, or considered a lower priority at this time.	Propose to the PAG to revise the indicator statement to the following: <i>“Percentage of ranked risk factors with corresponding forest health management strategies identified”.</i> This will focus the management strategy efforts on the highest priority forest health factors within the DFA.

Indicator 3-1 | Measure 3-1.1
See Measure 2-2.1

Site conversion

Indicator 3-1 | Measure 3-1.2
See Measure 1-2.2

Coarse Woody Debris

Indicator 3-1 | Measure 3-1.3
See Measure 2-3.1

Regeneration Delay

Indicator 3-1 | Measure 3-1.4
See Measure 2-3.2

Free Growing

Indicator 3-1 | Measure 3-1.5
See Measure 2-2.3

Stocking and Species Composition

Indicator 3-1 | Measure 3-1.1
See Measure 2-2.1

Site conversion

Indicator 3-1 | Measure 3-1.6
See Measure 2-1.2

Soil Conservation Effectiveness

Indicator 3-2 | Measure 3-2.1
See Measure 2-2.1

Site conversion

Indicator 3-2 | Measure 3-2.2 Stocking and Species Composition

See Measure 2-3.3

Indicator 3-2 | Measure 3-2.3 Regeneration Delay

See Measure 2-3.1

Indicator 3-2 | Measure 3-2.4 Free Growing

See Measure 2-3.2

Indicator 4-1 | Measure 4-1.1 Harvest volumes

Measure Statement	Target and Variance
Actual harvest volume compared to the apportionment across the DFA over each 5-year cut control period.	Target: ≤100%. Variance: +/- 10%.

To be considered sustainable, harvesting a renewable resource such as timber can not deteriorate the resource on an ecological, economic or social basis. It is expected that certain resource values and uses will be incompatible; however, a natural resource is considered sustainable when there is a balance between the various components of sustainability. During Allowable Annual Cut (AAC) determination, various considerations are examined including the long term sustainable harvest of the timber resource, community stability, wildlife use, recreation use, and the productivity of the DFA. The AAC is generally determined every five years by the Chief Forester of British Columbia, using a number of forecasts to assess the many resource values that need to be managed. On behalf of the Crown, the Chief Forester makes an independent determination of the rate of harvest that is considered sustainable for a particular Timber Supply Area (TSA). The Mackenzie DFA is part of the larger Mackenzie TSA, comprising about 42% of the TSA area.

The harvest level for a TSA must be met within thresholds that are established by the Crown. By following the AAC determination, the rate of harvest is consistent with what is considered by the province to be sustainable ecologically, economically and socially within the DFA. As stated above, the Chief Forester makes a determination of the rate of harvest for a particular TSA. The licensee then by law must achieve the AAC within the specified thresholds. In the case of BC Timber Sales, they are mandated to offer timber sale licenses matching the allocated AAC. Each truckload of wood is assessed and accounted for at an approved Ministry of Forests and Range (MOFR) scale site. The MOFR uses this information to apply a stumpage rate to the wood, and monitors the volume of wood harvested and compares it to the AAC thresholds. BC Timber Sales tracks volume for timber sale licenses issued based on volume cruised, and compares this to its AAC allocation. Canfor tracks the scaled volume of wood harvested.

Table 39: Harvest levels relative to AAC apportionment / Sales Schedule volume in the DFA

Signatory	5 year volume apportioned	Actual volume cut in cut control period	Years into cut control	Percent of 5 year cut control
Canfor	6,447,759	5,629,191	5	87.3%
BCTS	3,594,430	444,173	1	12.4%
TOTAL	10,042,189	6,073,364		60.5%

Source:**Measure Discussion:****Indicator 4-1 | Measure 4-1.2 Waste and Residue**

Measure Statement	Target and Variance
Percent compliance with waste and residue standards.	Target: 100%. Variance: ≤ 5%.

The purpose of this measure is to ensure that the use of wood fiber is maximized given reasonable consideration of fiber quality and milling efficiency, Government has set targets on allowable waste and residue for forest harvesting operations. This measure simply allows us to monitor compliance with already established standard targets under the assumption that these targets adequately minimize any loss of economic potential from undue waste and residue of wood fiber.

Table 40: Percent compliance with Waste and Residue standards in the DFA

Signatory	Number of blocks harvested	Number of Blocks Compliant with Waste and Residue Standards	% in DFA
Canfor	13	13	100%
BCTS	44	38	86.4%
TOTAL	57	51	89.5%

Source: Waste and residue surveys

Measure Discussion:

What Happened?

The non-compliant blocks were assessed as potentially exceeding designated residue and waste benchmarks, this assessment rising from FHI's. Residue and waste Surveys have not yet been completed for these blocks, and when this data is available, this report will be updated to reflect those results.

BCTS Rationale Why (Root Cause)?

Waste estimates cannot always be completed within the confines of the reporting period. For this reason, the blocks in question were not promptly surveyed.

Under "take or pay" legislation, Canfor and BCTS licensees are obligated to assess waste and residue. Monetary penalties apply to all blocks and road R/Ws that exceed benchmarks.

Action Plan

The signatories will approach the PAG to verify the relevance of this measure given the decreasing value slide in log quality given the increase in harvesting of beetle infested stands. Furthermore, take or pay legislation serves as the balance between utilization and log quality.

Indicator 4-2 | Measure 4-2.1 Wood Purchases

Measure Statement	Target and Variance
Canfor to provide opportunities to purchase wood from private enterprises.	Target: Opportunity exists Variance: 0%

This measure is intended to address the ability of small businesses to sell wood in the DFA. Ensuring that businesses can sell their wood in the DFA provides a measure of economic diversification. It also ensures that timber harvested within the DFA has the opportunity to be processed within the DFA, providing further economic benefit. This measure applies only to Canfor log purchases from private enterprises.

Table 41: Summary of Canfor log purchases from private enterprises

Purchaser	Vendor Group	Volume Purchased (m3)
Canfor	BCTS	183,171.0
	Woodlots	36,993.0
	NRFL holders	
	Salvage Sales	
	Private	4,567.0
	Other	
TOTAL		224,731

Source:

Measure Discussion:

Indicator 4-2 | Measure 4-2.2 First-Order Wood Products

Measure Statement	Target and Variance
The number of first-order wood products produced from trees harvested from the DFA.	Target: 5 Variance: -2

This measure helps to show how forest management activities can contribute to a diversified local economy based on the range of products produced at the local level. Forest management's contribution to multiple benefits to society is evident through this measure, as well as an indication of the level of diversification in the local economy. First order wood products are often used to supply value-added manufacturers with raw materials for production, such as pre-fabricated houses components. These provisions help to maintain the stability and sustainability of socio-economic factors within the DFA. By ensuring a large portion of the volume of

timber harvested in the DFA is processed into a variety of products at local facilities, the local economy will remain stable, diverse, and resilient.

Table 42: Summary of First-Order wood products produced from trees harvested within the DFA

Signatory	Raw logs	House logs	Lumber	Custom cut lumber	Trim Blocks	Pulp chips	OSB strands	Hog	Wood shavings	Plywood	Veneer	Pole Logs	Railway tie logs	Sawdust	Instruments	Finger joint	Total
Canfor	0	0	1	0	1	1	0	1	1	0	0	0	0	1	0	0	6
BCTS	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7

Source:

Measure Discussion:

Indicator 4-2 | Measure 4-2.3 Local Investment

Measure Statement	Target and Variance
The percent of money spent on forest operations and management on the DFA provided from the northern central interior (NCI) suppliers (stumpage not included).	Report out on

Forests provide many ecological benefits but they also provide substantial socio-economic benefits. In order to have sustainable socio-economic conditions for local communities associated with the DFA, local forest related businesses should be able to benefit from the work that is required in the management of the DFA.

Furthermore, for small forestry companies to contribute to and invest in the local economy there must be assurances that there will be a consistent flow of work. In the same way that larger licensees depend on a secure flow of resources to justify investment in an area, small businesses depend on a sustained flow of opportunities to develop and invest in the local community.

The north central interior is defined in this SFMP as the region that includes communities from 100 Mile House to Fort St. John (south to north) and from Smithers to McBride (west to east). The total dollar value of goods and services considered to be local will be calculated relative to the total dollar value of all goods and services used. This calculation will be used to derive the percentage of money spent on forest operations and management of the DFA from suppliers in north central BC.

Table 43: Percent of money spent in the NCI

Signatory	Money Spent On Forest Operations/Management	Money Spent in NCI	% in DFA
Canfor	\$46,029,000	\$45,849,000	99.6%
BCTS	\$4,385,612	\$3,949,924	90.1%
TOTAL	\$50,414,612	\$49,798,294	98.8%

Source: Signatory accounting records

Indicator 4-2 | Measure 4-2.4 Support of Public Initiatives

Measure Statement	Target and Variance
The number of support opportunities provided to the public (stakeholders, residents, and interested parties)	Report out on

This measure was considered by the PAG to be an appropriate index of the more general economic benefits received by local people from the forest industry and the sustainability of those benefits. Generally, we assume

- the greater the industry is able to create opportunities for the public; the healthier the local economy is as a result of sustainable forestry.

Table 44: Support Opportunities Provided

Signatory	Support Opportunities					Total for DFA
Canfor	-	-	-	-	-	
BCTS	0	0	0	0	0	
TOTAL	0	0	0	0	0	0

Source: N/A

Measure Discussion:

Indicator 4-2 | Measure 4-2.5 Support of Environmental Projects

Measure Statement	Target and Variance
Report out on the amount of money directed towards environmental projects.	Report out on

Project that focus on testing, monitoring, or general inventory of environmental factors are often fraught with a lack of tangible economic return. Rather most benefit from these projects is tangible in non-economic measures and for this reason, most environmental projects require support funding from a wide variety of sources. We used this measure to reflect the magnitude of support for these projects from the forest industry under the assumption that environmental information will directly contribute toward forest stewardship, toward forest sustainability, and therefore, economic stability. Most of the money directed towards environmental projects, as defined below in "Monitoring and Reporting", is funded through provincial programs such as the Forest Investment Account (FIA), Forest Sciences Program (FSP), or Forest Innovation Investment (FII). These funds are provided to eligible recipients to complete a variety of activities. Although there are guidelines on what activities may be completed, how the money is spent is largely at the discretion of the recipient.

Table 45: Money spent on environmental projects within the DFA

Signatory	Total Dollars Directed to Environmental Projects
Canfor	\$ 536,234.70
BCTS	\$0
TOTAL	\$536,234.70

Source: Signatory accounting and contract records

Measure Discussion: BCTS: FIA dollars that were allocated to BCTS were reassigned to TSA wide projects managed by Canfor and Abitibi for this reporting year.

Indicator 4-3 | Measure 4-3.1 Taxes

Measure Statement	Target and Variance
Municipal Taxes paid to governments.	Target: 100% Variance: 0%

Payment of taxes (including Federal, Provincial, and local government taxes) by the signatories is a quantifiable indicator of how the public is receiving a portion of the economic benefits derived from forests. It is important to note that the signatories do not control how municipal and other taxes are spent and whether the public within the DFA receives these benefits or not. However, it should be assumed that a portion of the monies received from taxes will be returned to communities within the DFA. The DFA's forests provide many ecological benefits and they also provide significant socio-economic benefits. In order to ensure sustainable socio-economic conditions will continue for local communities associated with the DFA, all taxes will be paid on time.

Landowners are invoiced for municipal taxes on an annual basis. The invoice is directed to its accounting and payroll departments for immediate processing. The signatories' respective accounting and payroll departments also track all provincial sales taxes and federal Goods and Services taxes received and expended and provide money owing to the governments on a monthly basis. Business tax forms are filed annually and business taxes are paid as an annual lump sum or in quarterly installments.

Table 46: Taxes paid within the DFA

Signatory	Taxes Owed	Taxes Paid	% in DFA
Canfor	\$708,118	\$708,118	100%
BCTS			
TOTAL	\$708,118	\$708,118	100%

Source: Signatory accounting records

Measure Discussion: Currently, Canfor has no mechanism to track payment of corporate taxes and GST at the divisional level as corporate taxes and GST are paid through Canfor's head office. BCTS, as a division of the provincial government is GST exempt and is not subject to corporate taxes. In addition, BCTS does not own property but leases property for its offices and therefore does not control payment of taxes by the owner.

Indicator 4-3 | Measure 4-3.2 Stumpage

Measure Statement	Target and Variance
Stumpage Paid to Government	Target: 100% Variance: 0%

The payment of stumpage owing on the timber harvested by Licensees is a quantifiable measure of how the public in the Mackenzie DFA is receiving a portion of the economic benefits derived from forests. It is important to note that Licensees do not control how stumpage royalties are spent across the province or whether the public receives benefits from stumpage or not. However, it should be assumed that a portion of the royalties received from stumpage would be returned to communities within the DFA.

Forests provide many ecological benefits to areas that surround them and also generate significant socioeconomic benefits. In order to ensure continual sustainable socio-economic conditions for local DFA communities, all stumpage billings will be paid on time.

Table 47: Stumpage paid to government within the DFA

Canfor	Stumpage Owed	Stumpage Paid	% in DFA
Quota Wood	\$8,175,616.21	\$8,175,616.21	100%
Purchase Wood	\$6,258,503.80	\$6,258,503.80	100%
TOTAL	\$14,434,120.01	\$14,434,120.01	100%

Source: Signatory accounting records

Measure Discussion: Each month, the provincial government invoices the Licensees for stumpage. For Canfor this invoice is directed to the accounting and payroll departments for immediate processing. BCTS does not have direct control of payments of stumpage from tenures issued by the Timber Sales Manager.

Indicator 4-4 | Measure 4-4.1 Support to First Nations

Measure Statement	Target and Variance
The number of support opportunities provided to First Nations with treaty area and/or asserted traditional territory within the DFA.	Report out on

This measure indicates how the Steering Committee member companies provide economic and social benefits to First Nations over and above wages, taxes and stumpage fees through donations and involvement in local First Nations communities. Types of support opportunities within the DFA vary from providing personnel, equipment and/or facilities, to providing cash and product donations. This measure is an important component of a community's economic and social stability, but it is also difficult to quantify as support opportunities often go unrecorded. Support opportunities help to increase awareness of sustainable forest management and its role within the DFA. This can indirectly lead to building a strong community and creating a viable labour force.

Table 48: Support opportunities for First Nations within the DFA

Signatory	Support Opportunities	Total for DFA
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		Cash Donations	Product Donations	Resource or Worker Donations	Community/ cultural support and donation	Capacity building	Training/ education	
Canfor	Number				4			
	Value				\$74,413.00			
BCTS	Number	0	0	0	0	0	0	
	Value							
TOTAL		0	0	0	\$74,413.00	0	0	\$74,413.00

Source:

Measure Discussion: BCTS as a division of government does not have a mandate to expend taxpayer dollars. BCTS revenues contribute to general revenue and are allocated to the ministry allocations at the direction of cabinet.

Indicator 4-4 | Measure 4-4.2 Contract Opportunities to First Nations

Measure Statement	Target and Variance
The number of contract opportunities provided to First Nations with treaty area and/or asserted traditional territory within the DFA.	Report out on

This measure is intended to monitor the impacts of forest industry and government activities on the ability of First Nations to access forestry related economic opportunities. At present, this measure is not intended to assess how successful First Nations are at taking advantage of the opportunities.

Table 49: Contract opportunities for First Nations within the DFA

Signatory	Contract Opportunities							Total for DFA
	Employment	Road Building	Other Volume Purchased	Logging	Silviculture Forestry	Other Contracts	Management Services	
Canfor	0	1	0	3	4	0	0	8
BCTS	0	0	0	0	0	0	0	0
TOTAL	0	1	0	3	4	0	0	8

Source: Signatory contract records

Measure Discussion: Canfor has explored forestry related opportunities with First Nations in the past. Capacity amongst the First Nations to take advantage of opportunities will likely have to be addressed in order for available opportunities to be acted upon. This measure tracks the existence of opportunities available. BCTS provides opportunities for all eligible bidders including First Nations.

Indicator 4-4 | Measure 4-4.3 Value of Transactions to First Nations

Measure Statement	Target and Variance
The total value of transactions undertaken with First Nations with treaty area and/or asserted traditional territory within the DFA.	Report out on

With this measure we intend to monitor the impacts of forest industry and government activities on the ability of First Nations to access forestry related economic opportunities. At present, this measure is not intended to assess how successful First Nations are at taking advantage of the opportunities.

Table 50: Total value of transactions with First Nations within the DFA

Transaction Type	Signatory		Total in DFA (\$)
	Canfor (\$)	BCTS (\$)	
Employment	\$0.00	0	0
Road Building	\$253,487.50	0	\$253,487.50
Volume Purchased	\$0.00	0	\$0.00

Community Cultural Support and Donation	\$74,413.00	0	\$74,413.00
Logging	\$2,753,101.90	0	\$2,753,101.90
Silviculture / Forestry	\$54,770.00	0	\$54,770.00
Capacity Building	\$0	0	\$0
Other Contracts	\$0.00	0	0
Purchases	\$0.00	0	0
Education / Training	\$0.00	0	0
Management Services	\$0.00	0	0
Total	\$3,135,772.40	\$0	\$3,135,772.40

Source: Signatory accounting records

Measure Discussion: Canfor has explored forestry related opportunities with First Nations in the past. Capacity amongst the First Nations to take advantage of opportunities will likely have to be addressed in order for available opportunities to be acted upon. This measure tracks the existence of opportunities available. BCTS provides opportunities for all eligible bidders including First Nations.

Indicator 4-5 | Measure 4-5.1 Competitive Sale of Timber

Measure Statement	Target and Variance
The percentage of DFA volume advertised for sale through open competitive bid.	Target: 40% Variance: -5%

Most of the timber harvested in the DFA is collectively cut under major licenses held by Forest Licensees. However, a percentage of the annual volume cut is advertised for sale through open competitive bid. This volume is sold by the Crown through BC Timber Sales (BCTS). BCTS develops and sells publicly owned timber to establish market prices and optimize net revenue to the Crown. Reliant on the highest bid, BCTS sells units of timber across the DFA to a variety of customers, including sawmill operators, small-scale loggers, and timber processors. In addition to helping establish market prices and providing revenue to the Crown, BCTS provides the opportunity for customers to purchase timber in a competitive and open market. In this way people who might not have access to Crown timber have an opportunity to purchase it in an equitable manner.

The measure will evaluate the volume of timber advertised for sale through open competitive bid. This process contributes to the social and economic aspects of SFM by creating opportunities for forest sector employment, and by providing revenue to the Crown that reinvests the money back into the DFA through government programs and institutions. Tracking the measure will ensure that the volume of timber offered for sale in this manner is sufficient to meet the goals of sustainable forest management.

Table 51: DFA related volume advertised as competitive bid

Signatory	Total annual volume apportioned (m3)	Volume Advertised For Sale Through Open Competitive Bid (m3)	% in DFA
Canfor	1,082,904		
BCTS	718,886	540,994	
Non-signatory			
TOTAL	718,886	540,994	75.3%

Source:

Measure Discussion: Canfor is exempt from the requirements of this measure.

Indicator 4-5 | Measure 4-5.2 Primary Milling Facilities

Measure Statement	Target and Variance
A competitive primary milling facility is sustained.	Target: ≥2 Variance: 0

The existence of a forest industry primary processing facility can have a stabilizing affect on the economy of a DFA. A primary processing facility attracts other businesses and provides revenue to all level of government. The economic sustainability of many parts of BC, including Mackenzie depends in part on a competitive primary processing facility.

Table 52: Number of primary milling facilities maintained in the DFA.

Signatory	Number of primary milling facilities
Canfor	2
TOTAL	2

Source: Self evident

Measure Discussion: BCTS is exempt from the requirements of this measure.

Indicator 4-6 | Measure 4-6.1 Risk Factor Management

See Measure 2-5.2

Indicator 4-6 | Measure 4-6.2 Forest Stand Damaging Agents

Measure Statement	Target and Variance
Areas with stand damaging agents will be prioritized for treatment.	<u>Target:</u> 100% <u>Variance:</u> -10%

Damaging agents are considered to be biotic and abiotic factors (fire, wind, insects etc.) that reduce the net value of commercial timber. To reduce losses to timber value it is necessary to ensure that if commercially viable timber is affected by damaging agents, that the timber is recovered before its value deteriorates. At the time of this SFMP's preparation, the most serious stand damaging agent in the Mackenzie DFA is the Mountain Pine Bark Beetle, which has killed millions of mature, commercially viable lodgepole pine. Prioritizing infested stands for treatment can contribute to sustainable forest management in several ways. Removing infested trees can slow the spread of beetles to adjacent uninfested stands and allow Licensees to utilize trees before they deteriorate. Also, once harvesting is complete the area can be replanted, turning an area that would have released carbon through the decomposition of dead trees into the carbon sink of a young plantation.

It should be noted that prioritizing a stand for treatment might not guarantee the stand would be treated. The size of the stand, the threat the agent poses, the location, and the merchantability of the timber all have to be considered when prioritizing which stands will be treated first. Some stands may have such a low priority that the only "treatment" is to monitor the area until such a point when more active operations are deemed necessary. Treating areas with stand damaging agents will provide other societal benefits. Burned and diseased killed stands may be aesthetically unpleasing, and their harvesting and reforestation will create a more pleasing landscape. Windthrown stands restrict recreational use and can foster the growth of insect pests such as the spruce bark beetle. Thus, prioritizing areas with stand damaging agents for treatment will help to maintain a more stable forest economy and achieve social benefits through enhanced aesthetics and recreational opportunities.

Table 53: Forest Stand Damaging Agents within the DFA

Signatory	Total Area With Stand Damaging Agents Identified	Area With Stand Damaging Agents that are prioritized for treatment	% in DFA
Canfor	1,255,994	1,255,994	100%
BCTS	838,043	838,043	100%
TOTAL	2,094,037	2,094,037	100%

Source:

Measure Discussion: Canfor and BCTS target damaged stands in a similar manner. Each year the volume of damaged timber is assessed within the DFA. Of this volume, licensees prioritize planning and harvesting activities based on levels of attack, stage of attack, wood quality and milling capacity/needs. This measure reports out on the Licensees' and BCTS' success in ensuring areas with stand damaging agents have been assessed and have been prioritized for treatment if required and thereby minimizing value losses.

Indicator 4-6 | Measure 4-6.3 Accidental Fires

See Measure 2-5.1

Indicator 5-1 | Measure 5-1.1 Non-timber Benefits

Measure Statement	Target and Variance
List of existing and documented potential for marketed non-timber benefits.	Report out on

The measures of this indicator will highlight trends in the marketed non-timber economic benefits from local forests and assist in developing strategies for sustaining these benefits over time, within the limitations of the signatories' current forest management activities. The goal for the signatories is to not degrade the current or future potential for marketed non-timber benefits as a result of forest management activities and that they contribute to improving the potential, where possible. The term "marketed" implies that the non-timber forest resource is available for a viable business and information on it is readily accessible. The term "benefit" implies an economic benefit.

The list for this measure will establish a baseline that the signatories can use when developing management strategies. These management strategies will ensure that the signatories are not degrading current or potential marketed non-timber benefits.

Table 54: Non-timber benefits within the DFA

List of Marketed Non-Timber Benefits Developed	Reported

Source: N/A

Measure Discussion: Presentation of a preliminary list of potential non-timber benefits will be presented to PAG at the fall 2008 meeting. Forecasting for this measure entails that the report will exist on or before June 30, 2007. Once that is in place, this measure will no longer be needed.

Indicator 5-1 | Measure 5-1.2 SFM Implications of Non-timber values

Measure Statement	Target and Variance
Description of potential implications of SFM practices on the amount and quality of marketed non-timber values.	Report out on

This measure will highlight the potential affects of implementing SFM practices on the quantity and quality of marketed non-timber economic benefits from local forests. This measure takes the information provided from measure 5-1.1 and places it within the continuous improvement/adaptive management framework of the SFM Plan by identifying how forest management under the SFM Plan may impact non-timber economic benefits. The information derived will then be used in consultation with stakeholders in determining what, if any, changes may be required to current strategies and the potential trade-offs involved. The goal for the signatories is to not degrade the current or future potential for marketed non-timber benefits as a result of forest management activities and that they contribute to improving the potential, where possible.

Table 55: SFM implications on Non-timber values within the DFA

Existing Marketed Non-timber Value	SFM Implications

Source: N/A

Measure Discussion: Presentation of a preliminary list of potential non-timber benefits and the potential impacts of forest management activities will be presented to PAG at the fall 2008 meeting. Description of SFM implications requires that a list of marketed non-timber benefits be developed. As per Measure 5-1.1, a description of implications is to be developed on or before June 30, 2007.

Indicator 5-1 | Measure 5-1.3 Range Management Effectiveness

Measure Statement	Target and Variance
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The percentage of forest operations consistent with range requirements as identified in operational plans and/or site plans.	<u>Target:</u> 100% <u>Variance:</u> 0%
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Range resources can include grazing or hay cutting permits, or areas with potential for these ventures. Range managers and forest managers share the forest for their particular purposes, and must work cooperatively in order to achieve sustainable development and management of its resources. The measure is designed to ensure that operational plans with identified range requirements have those requirements implemented on the ground. Maintenance of range resources is an important aspect of sustainable forest management because it contributes to the social and economic needs of people who traditionally and currently use the DFA for purposes other than forestry. This measure will help to ensure that various range values are conserved for current and future generations.

Table 56: Forest Operations consistency with Range requirements

Signatory	Total Number of Forest Operations with Range Requirements				Number of Forest Operations Consistent With Requirements	Percent
	Roads	Harvesting	Silviculture	Total		
Canfor	38	13	3	54	54	100.0%
BCTS	30	43	0	73	73	100.0%
TOTAL	68	56	3	127	127	100.0%

Source: Signatory operational plans

Indicator 6-1 | Measure 6-1.1 Employment

Measure Statement	Target and Variance
Employment supported by each sector of the local economy (actual and percentage of total employment).	Report out on

Although the forest industry cannot directly control the diversity of the economy for the community in which it operates, understanding the impact of that diversity is an important component of SFM. If the community is not economically diverse, it will not be resilient to economic shocks. Services could decline and thus skilled workers and their families may move to more stable areas. As important economic players, the signatories can potentially influence local policies that would encourage economic diversity in their communities.

Table 57: Employment within the DFA

Employment Sector	Number Employed	Percent
Forestry	2022	66.9%
Mining and processing	12	0.4%
Fishing and Trapping	15	0.5%
Agriculture and Food	23	0.8%
Tourism	261	8.6%
High Tech.	17	0.6%
Public Sector	576	19.1%
Construction	50	1.7%
Other	45	1.5%
TOTAL	3021	

Source: BC Stats

Measure Discussion: The Table above reflects the labour force profile in the Mackenzie TSA using 2001 Employment Estimates by Sector. The data was derived from "2001 Economic Dependency Tables for Forest Districts" available at http://www.bcstats.gov.bc.ca/pubs/econ_dep/tab_fd.pdf. This information will be updated with the latest census information when it has been compiled, which is not anticipated until March, 2008.

Indicator 6-1 | Measure 6-1.2 Income

Measure Statement	Target and Variance
Contribution of income sources from each sector of the local economy (actual and percentage of total income).	Report out on

This measure is directly related to 6-1.1 and is meant to measure the contribution of income sources as part of the economic benefit derived from each sector of the local economy. This information can be used to analyze the economic diversity for the DFA.

Table 58: Income within the DFA

Employment Sector	Total Income (millions)	Percent
Forestry	\$97.0	80.4%
Mining and processing	\$0.2	0.2%
Fishing and Trapping	\$0.0	0.0%
Agriculture and Food	\$0.0	0.0%
Tourism	\$4.7	3.9%
High Tech.	\$0.0	0.0%
Public Sector	\$16.9	14.0%
Construction	\$1.5	1.2%
Other	\$0.4	0.3%
TOTAL	\$120.7	

Source: BC Stats

Measure Discussion: The table above indicates the current income estimates for the Mackenzie TSA from BC Stats. This information will be updated with the latest census information from Statistics Canada when it has been compiled, which is not anticipated until March, 2008.

Indicator 6-1 | Measure 6-1.3 Business Opportunities

Measure Statement	Target and Variance
The number of opportunities given to businesses within or immediately adjacent to the TSA to provide non-tendered services to forest management activities.	Report out on

Woodlands operations of the signatories purchase a wide variety of products and services in order to produce timber and to manage forestry activities. This measure identifies the number of opportunities given to businesses within, or immediately adjacent to the TSA to provide non-tendered services to forest management activities. This measure is important as some goods and services required in forest management are not put up for tender, instead they are directly purchased or awarded. This measure identifies opportunities for the local private sector to secure work and opportunities for direct access to both timber and non-timber benefits. This measure also indirectly looks at the diversity of the local forest employment opportunities associated with forest industry activities. For the purposes of this SFMP, local is defined as those residences or businesses that have mailing addresses within or immediately adjacent (i.e. McLeod Lake) to the TSA.

Table 59: Opportunities for non-tendered services within or adjacent to the TSA

Signatory	Opportunities to Provide Non-Tendered Services		Number in DFA
	Canfor	BCTS	
Logging and hauling	2	0	2
Road construction and maintenance	3	0	3
Silviculture	4	0	4
Operations	8	0	8
Planning and Administration	7	1	8
Miscellaneous Goods/Services	6	11	17
TOTAL	30	12	42

Source: Signatory contract and accounting records

Measure Discussion:

Indicator 6-1 | Measure 6-1.4 First-Order Wood Products

See Measure 4-2.2

Indicator 6-1 | Measure 6-1.5 Support Opportunities

Measure Statement	Target and Variance
The number of support opportunities provided within, or immediately adjacent to the TSA.	Report out on

This measure indicates how economic and social benefits to the public over and above wages, taxes and stumpage fees through donations and involvement in local community organizations are provided. Types of support opportunities within the TSA vary from providing personnel, equipment and/or facilities, to providing cash and product donations. This measure is an important component of a community's economic and social stability, but it is also difficult to quantify as support opportunities often go unrecorded. Support opportunities help to increase awareness of sustainable forest management, its role within the TSA, and the quality of life in the DFA. This can indirectly lead to building a strong community and creating a viable labour force.

Table 60: Number of support opportunities within the DFA

Signatory	Support Opportunities (#)				Total for DFA
	Cash Donations	Product Donations	Resource or Worker Donations	Community Events	
Canfor	-	-	\$1,500.00	-	\$1,500.00
BCTS	N/A	N/A	N/A	N/A	N/A
TOTAL	-	-	\$1,500.00	-	\$1,500.00

Source: Canfor

Measure Discussion: BCTS has no requirement to report out on this measure.

Indicator 7-1 | Measure 7-1.1 List of Affected Parties

Measure Statement	Target and Variance
Implement and update a comprehensive list of stakeholders and affected or interested parties.	<u>Target:</u> annually <u>Variance:</u> none

As forest management recognizes a broader range of forest values, particularly on public land, it is increasingly important that all stakeholders have input into management concerns. The public, through a public participation process, has an opportunity to be involved proactively in the management of a DFA. Effective sustainable forest management planning for public land requires appropriate involvement of stakeholders and the general public in the development and implementation of plans. In order for a public process to be effective, a comprehensive list of affected and interested parties must be considered. A Stakeholder Analysis ensures that all the interests in a defined area of forest are considered. A stakeholder analysis provides the structured, explicit identification of human uses and interests in a particular management unit. By identifying the organizations and individuals associated with those uses and interests it allows a fresh, transparent assessment of the stakeholders who should be included in these processes. This measure ensures that an objective and transparent identification of a wide variety of stakeholders' interests exists. It also helps define appropriate public input processes for the sustainable forest management plan for the DFA. This measure is directly linked to the subsequent measures listed.

Table 61: Update status of the list of affected parties within the DFA

	List of Stakeholders and Affected or Interested Parties Developed	List Updated	List Updated	List Updated	List Updated	List Updated
Date	Jul-03	Aug-03	Jan-06	Mar-08		

Source: SFM Stakeholder contact database

Measure Discussion: Triton Environmental Consultants Ltd. developed a list of stakeholders in July 2003. This list was subsequently updated in August 2003 and again in January 2006. For the Mackenzie DFA, an Excel spreadsheet was created listing all the interests and stakeholders. Contact lists were gathered from a variety of sources, including forest companies, government agency consultation lists, tenure holders listings and other process participant lists, such as LRMP. Groups and stakeholders were categorized according to primary interest, geographic area of interest and previous level of process participation. A FIA funded project to solicit updates to the stakeholder list is to be concluded in March 2008.

Indicator 7-1 | Measure 7-1.2 SFMP Review (PAG)

Measure Statement	Target and Variance
The number of opportunities for the PAG to review and provide comment on the SFMP.	<u>Target:</u> at least annually <u>Variance:</u> none

This measure is one of a group of measures that will help to increase the overall understanding of SFM. This SFMP and the resulting annual reports will be communicated to the public at least once per year through a public open house and by posting them on a publicly accessed internet site.

Table 62: PAG SFMP review opportunities within the DFA

Opportunities for PAG to Provide Review and Comment.				Total for DFA
Dates Opportunities Provided				
				0

Source: PAG meeting summaries

Measure Discussion:**What Happened?**

The PAG did not have an opportunity to review and comment on the SFMP.

Rationale**Why (Root Cause)?**

There was only 1 meeting during the reporting period, and the agenda was constrained by a number of issues and factors.

Action Plan

Licensees and BCTS to hold a more regular meeting schedule in order to allow adequate time once a year for the PAG to review and comment on the SFMP.

Indicator 7-1 | Measure 7-1.3 Meetings (PAG)

Measure Statement	Target and Variance
Number of Public Advisory Group meetings per year.	<u>Target:</u> at least 1 annually <u>Variance:</u> none

The Mackenzie PAG is made up of a diverse set of representatives that have various defined interests, values or specific uses of the forest resource within the DFA. The PAG provided valuable input on the initial development of values, indicators, measures and targets for this SFMP. PAG members helped to identify local issues and values for the Mackenzie DFA for forestry managers to consider during management and planning processes. The PAG will continue to provide guidance, input and evaluation throughout the SFMP process, including all aspects of implementation and continual improvement of the plan over time. This measure provides information regarding how often the PAG will meet on an annual basis.

Table 63: PAG meetings within the DFA

Year	PAG Meeting Dates						Total:
2005-2006	31-Jan-06	14-Feb-06	28-Feb-06	14-Mar-06	28-Mar-06		5
2006-2007	11-Apr-06	25-Apr-06	09-May-06	17-Oct-06	20-Feb-07	28-Mar-07	6
2007-2008	13-Mar-08						1

Source: PAG meeting summaries

Measure Discussion:**Indicator 7-1 | Measure 7-1.4 Satisfaction (PAG)**

Measure Statement	Target and Variance
The level of satisfaction of the PAG members with the process.	<u>Target:</u> 100% <u>Variance:</u> -20%

The PAG is one of the key elements of public involvement in the SFM process. The Mackenzie PAG provides guidance, input and evaluation during development of the SFMP. It is also instrumental in maintaining links to current local values and forest resource uses within the DFA. Therefore, it is important that the signatories have a positive and meaningful working relationship with the PAG, where the signatories are able to respond to all issues and concerns the PAG may have during the process. This measure will use an average of the PAG meeting evaluation forms to determine the level of satisfaction of the PAG with the public participation process.

Table 64: PAG satisfaction within the DFA

Mackenzie DFA SFM Plan PAG Meeting Evaluation Question April 1, 2006 - March 31, 2007	Meeting Date	Score	Percent (score / 5)	Variance (from 100%)
Question M12 - Are you satisfied with PAG process	2008-03-13	3.5	70.0%	30.0%

Source: PAG satisfaction surveys

Measure Discussion: Meeting evaluations will be conducted after each PAG meeting. The results will be made available before or during the next meeting. The average of the summary of the PAG meeting evaluation forms will be used to determine this indicator percent.

What Happened?	Rationale Why (Root Cause)?	Action Plan
PAG satisfaction was below the target percent.	There was only 1 meeting during the reporting period. Also, the March 2008 meeting was not well attended by the PAG. For these reasons, the reported score may not accurately reflect PAG satisfaction.	Licensees and BCTS to propose to do one of 2 things, hold more regular meetings, or increase the variance to cover off situations where less than desired number of meetings is realized over the reporting period.

Indicator 7-1 | Measure 7-1.5 TOR Review (PAG)

Measure Statement	Target and Variance
Maintain and review at least annually and as required the Mackenzie SFMP PAG TOR to ensure a credible and transparent process.	<u>Target:</u> at least annually <u>Variance:</u> none

This measure indicates that a Terms of Reference document has been developed in consultation with the PAG, and that these Terms of Reference have been accepted for use in all future PAG meetings. The Terms of Reference document is an important part of the public participation component of this SFMP. SFM requires public participation and the PAG Terms of Reference ensure these requirements are met in a credible and transparent fashion. The Terms of Reference document will be reviewed annually unless consensus from the group suggests otherwise.

Table 65: PAG TOR review opportunities within the DFA

Review of ToR				Total for DFA
Meeting Dates				
31-Jan-06	20-Feb-07			0

Source: PAG meeting summaries

Measure Discussion:

What Happened?	Rationale Why (Root Cause)?	Action Plan
The PAG were not given the opportunity to review and comment on the Terms of Reference.	There was only 1 meeting during the reporting period, and the agenda was constrained by a number of issues and factors.	Licensees and BCTS to hold a more regular meeting schedule in order to allow adequate time once a year for the PAG to review and comment on the Terms of Reference.

Indicator 7-1 | Measure 7-1.6 Satisfaction (Affected Parties)

Measure Statement	Target and Variance
Survey residents, stakeholders, and First Nations regarding their satisfaction with forest management (process and outcomes).	<u>Target:</u> at least every 3 years <u>Variance:</u> none

This measure was developed in order to provide information relating to the level of satisfaction of residents, stakeholders, and First Nations people with forest management activities conducted by the signatories. Satisfaction levels will be determined through the use of a survey, to be conducted every third year, which will be widely distributed to randomly selected households with residents in, or near (eg. McLeod Lake) the DFA. While the signatories recognize the value of the interactions with the public during such activities as the PAG or during planning processes, these interactions are generally with those people that have a specific interest in the forest resource.

Table 66: Satisfaction of affected parties with forest management within the DFA

Dates	Survey of Residents, Stakeholders and First Nations			
	Dates Surveys Reported			
Target	31-Mar-07	31-Mar-10	31-Mar-13	31-Mar-16
Actual	31-Mar-07			
Variance	0			

Source: Survey document

Measure Discussion:

Indicator 7-1 | Measure 7-1.7 Representation (PAG)

Measure Statement	Target and Variance
Percentage of the public sectors as defined in the TOR invited to participate in the PAG process.	Target: 100% Variance: 0%

The Mackenzie PAG is comprised of a variety of representatives that have various defined interests, values or specific uses of the forest resource within the DFA. An important component of the PAG is the representatives from the various public sectors as defined in the Terms of Reference. Their involvement in the PAG process is crucial for the success of the SFMP as they represent a broad range of interests, both commercial and non-commercial, within the DFA. They also possess experience and expertise that the signatories can draw on in achieving the SFMP objectives. Their participation will enhance the co-operation between the forest industry and other parties interested in the management of public lands in the DFA to meet the social, economic, and ecological goals of sustainable forest management.

Table 67: PAG representation within the DFA

Number of sectors with a representative identified	Number of Sectors with no Representative With Invitations on File	Total Number Invited	Number of Public Sectors in Terms of Reference	Percent in DFA
20	3	23	24	95.8%

Source: PAG meeting summaries

Measure Discussion:

What Happened?	Rationale Why (Root Cause)?	Action Plan
PAG representation in all sectors was not realized during the reporting period.	Of the 23 sectors, an attempt to assign a representative for 1 sector was not realized. This is in part due to the lack of public interest in the SFMP process, coupled with the downturn in the local forest economy.	Propose to the PAG to revise the measure variance to the following: Variance: -20% Further to this is a commitment to revise the wording in the TOR so that full sector representation is not required.

Indicator 7-1 | Measure 7-1.8 Communication (PAG)

Measure Statement	Target and Variance
Percentage of PAG satisfaction with the amount and timing of information presented for informed decision making.	Target: 100% Variance: -20%

The PAG is one of the key elements of public involvement in the SFM process. The Mackenzie PAG provides guidance, input and evaluation during development of the SFMP. It is also instrumental in maintaining links to current local values and forest resource uses within the DFA. In order for the PAG to make decisions in regards to the content of the SFMP, such as measures, targets, and levels of responsibility, they must have the information to support those decisions. This information must be sufficient in amount and quality and delivered in a timely manner for the PAG to make sound decisions for the SFMP process. This measure is intended to measure and report the level of satisfaction the PAG has with the amount and timing of information presented for informed decision making. While it is hoped that there will be high satisfaction with the information, it is also acknowledged that with any group of diverse backgrounds and opinions that it is difficult to achieve unanimous satisfaction in any regard. However, if the SFMP is to succeed, the people who are involved in its evolution must have a certain level of satisfaction with the information they are using to direct that development.

Table 68: PAG satisfaction with communication process

Mackenzie DFA SFM Plan Public Advisory Group Meeting Evaluation Question April 1, 2006 - March 31, 2007						
Meeting Date	Question MQ 10 – Your overall satisfaction with the amount & timing of information presented?			Question MQ11 – Your overall satisfaction with the information?		
	Score	Percent (score / 5)	Variance (from 100%)	Score	Percent (score / 5)	Variance (from 100%)
2008-03-13	3.3	66.0%	34.0%	3.7	74.0%	26.0%

Source: PAG satisfaction surveys

Measure Discussion:

What Happened?	Rationale Why (Root Cause)?	Action Plan
PAG satisfaction with communication was below the target percent.	There was only 1 meeting during the reporting period. Also, the March 2008 meeting was not well attended by the PAG. For these reasons, the reported score may not accurately reflect PAG satisfaction with communication.	Licenseses and BCTS to propose to do one of 2 things, hold more regular meetings, or increase the variance to cover off situations where less that desired number of meetings is realized over the reporting period.

Indicator 7-1 | Measure 7-1.9 SFMP consistency with LRMP

Measure Statement	Target and Variance
Report out on consistency of indicators or measures with LRMP objectives.	Report out on

The Mackenzie LRMP represents a substantial effort to balance ecological, economic, and social values within the Mackenzie TSA and stands as a record of consensus among the diverse social structure of the local area. Many of the people who are members of the current PAG also worked long hard hours in developing the LRMP. This measure acknowledges the importance of that work and will be used to gauge the extent to which the SFMP aligns with the objectives developed in the LRMP. The closer the SFMP indicators and measures reflect the resource management objectives of the LRMP, the closer we will be to the same social consensus arrived at through the LRMP.

Table 69: Development and reporting of SFM Indicators and Measures with the LRMP

	Consistency with Indicators Developed and Reported	Consistency with Measures Developed and Reported
Meeting Date	14-Feb-06	

Source:

Measure Discussion:

Indicator 7-2 | Measure 7-2.1 Concerns (affected parties)

Measure Statement	Target and Variance
The number of opportunities given to the public and stakeholders to express forestry-related concerns and be involved in our planning processes.	Target: 6 Variance: -2

Forestry activities can impact a wide section of the public and individual stakeholders within the DFA. This measure was designed to monitor the signatory's success at providing effective opportunities to residents and stakeholders to express concerns and be proactively involved in the planning process. This involvement may include the identification of areas of interest, definition of the nature of their interest in the land base, and any specific forestry activity that may impact their specific interests. This process ensures that when forestry activities are planned, information is exchanged in an effective and timely manner, so as to resolve potential conflicts before they occur. This process will help to identify the public values, interests and uses of the forest that will be considered within the Mackenzie Licensees' and BCTS' planning framework.

Table 70: Communication opportunities given to the public and stakeholders within the DFA

Opportunity	The Number of Opportunities For Public And Stakeholders			
	Canfor	BCTS	Joint	Total
FSP original ads				0
FSP amendment ads	1			1
FSP letters to stakeholders	1	1		2
PMP original ads				0
PMP letters to stakeholders				0
PMP signage				0
FDP original ads				0
FDP amendment ads				0
FDP letters to stakeholders				0
Field tours				0
Newsletters				0
Open houses		1		1
PAG Meetings			1	1
LRMP meetings			1	1
Documented phone calls	1	1		2
Documented meetings				0
TOTAL	3	3	2	8

Source:

Measure Discussion:

Indicator 7-2 | Measure 7-2.3 Response to Concerns

Measure Statement	Target and Variance
The percent of timely responses to written and documented concerns.	Target: 100% Variance: -5%

All signatories solicit feedback for their public forest management plans in the DFA. They also receive ongoing general comments and inquiries regarding practices and management of forest lands. These inquiries represent a public concerned with how forest resources are managed, and as such should receive a timely response by all signatories. This measure has established that a timely response is one that is made within 30 days of written inquiry.

Table 71: Timely response to concerns raised by public and stakeholders within the DFA

Signatory	Number of Written and Documented Concerns	Number Responded to in a Timely Manner	Percent
Canfor	2	2	100.0%
BCTS	3	1	33.3%
TOTAL	5	3	60.0%

Source:

Measure Discussion:

What Happened?

Both responses were sent after 30 days.

BCTS Rationale Why (Root Cause)?

There was uncertainty around BCTS' ability to engage parties in discussions on issues which appeared to be outside management obligations. Lack of awareness around SFM target. Both parties are still engaged in discussions with BCTS over issues raised and BCTS is continuing to work to address them.

Action Plan

Where responses are required to written inquiries, BCTS staff will utilize the tracking and reminder tools in ITS or the Genus Planning Module to record, assign responsibility, and set actions in place to ensure that response are made within the 30 day window.

Indicator 7-2 | Measure 7-2.4 SFMP availability (affected parties)

Measure Statement	Target and Variance
Distribution/access to SFM Plan, annual reports, and audit results.	Target: 1 annually Variance: 0

With this measure we intend to monitor our effort to ensure effective and comprehensive distribution of the SFMP, annual reports, and audit results for the Mackenzie DFA. In order to gain trust and confidence in the SFMP process, it must be an open and transparent process. By ensuring access to the Plan, annual reports, and audit results, the results of our efforts in achieving sustainable forestry and continuous improvement can be clearly seen and monitored by the public, stakeholders, and First Nations. In this manner, the public, stakeholders and First Nations can hold the signatories accountable for achieving the desired results and have confidence that forest resources are being managed sustainably.

Table 72: SFMP availability within the DFA

Opportunity	The Number of Distribution/Access Opportunities			
	Canfor	BCTS	Joint	Total
Newsletters				0
Open houses				0
PAG Meetings			1	1
Website	1	1		2
Documented meetings				0
TOTAL	1	1	1	3

Source:**Measure Discussion:****Indicator 7-2 | Measure 7-2.5 SFMP training (affected parties)**

Measure Statement	Target and Variance
The number of SFM educational opportunities and interactions provided.	Target: 2 annually Variance: 0

This measure was designed to monitor the signatories' success at providing training and educational opportunities in sustainable forest management. SFM relies on residents and stakeholders making informed decisions on forest management. To achieve this, it is incumbent on the signatories to ensure the public are sufficiently informed about SFM to make the choices we request of them. The measure is intended to ensure that the signatories provide the required opportunities for residents and stakeholders to learn about SFM. Such opportunities may include field tours, training programs, presentations regarding aspects of SFM, etc.

Table 73: SFMP training opportunities within the DFA

Opportunity	The Number of SFM Educational Opportunities			
	Canfor	BCTS	Joint	Total
Field tours				0
Newsletters				0
Open houses				0
Presentations				0
Press Releases				0
Trade Shows, etc.	1	1		2
TOTAL	1	1	0	2

Source:**Measure Discussion:****Indicator 7-2 | Measure 7-2.6 Communication Strategy Effectiveness**

Measure Statement	Target and Variance
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Percentage of mutually agreed upon communication strategies met.	<u>Target:</u> 100% <u>Variance:</u> <5%
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The signatories maintain a list of interested parties that they notify when forestry operations/developments are to occur. These interested parties may be private landowners, lodge operators, trappers, or hunting guides. Strategies have been designed to ensure that information is communicated to these individuals in a timely and efficient manner. This communication considers non-timber users and inhabitants of the DFA and realizes that forestry operations can disrupt lives and businesses. As sustainable forest management includes non-timber values, it is important that the forest industry works with these individuals to minimize impacts and to plan operations that consider their concerns. This measure is intended to calculate the success of meeting communication strategy requirements that are designed to achieve these goals.

Table 74: Effectiveness of communication strategies within the DFA

Signatory	Total Number of Communication Strategies Required	Number of Communication Strategies Completed	Percent
Canfor	0	0	100.0%
BCTS	36	36	100.0%
TOTAL	0	0	100.0%

Source:

Measure Discussion: Canfor initiated efforts to develop communication strategies with various stakeholders during the reporting period however no responses to the inquiries were received.

Indicator 7-3 | Measure 7-3.1 Adaptive Management

Measure Statement	Target and Variance
Adaptive Management strategy is developed, documented, acted upon, and reviewed.	<u>Target:</u> at least once annually <u>Variance:</u> 0

Adaptive management (AM) is the process by which a commitment to learning is used to adjust management strategies so as to better cope with change while simultaneously seeking to better understand how management goals can be achieved. An adaptive management approach recognizes change as a constant factor. Therefore it is necessary to understand the root causes of what has, and may be changing. To do so requires learning as to how the economic, social and ecological systems are constantly moving through a cycle that involves change and reconfigurations in response to human attempts to manage them. If the system is resilient, then it can absorb a degree of change without a major reconfiguration. The first step is to understand the current state of the systems in terms of their existing resiliency. A desired concept of resiliency is then defined for each system, including an acceptable range of variation. This does not preclude society choosing to undergo a major reconfiguration, or that such a significant change is required in order to get the system to a point where it can be resilient. The concept of resiliency is then used to socially define sustainability across the three systems through an iterative process that considers trade-offs in terms of impacts to system resiliency within selected spatial and temporal scales.

Table 75: Develop, document, act, and review of Adaptive Management strategies within the DFA

Date	Adaptive Management Strategy				Total for DFA
	Developed (Y/N)	Documented (Y/N)	Acted Upon (Y/N)	Reviewed (Y/N)	
2006/10/27	Y	Y			Total for DFA
2008/03/02	Y	Y			
2008/03/13	Y	Y		Y	
TOTAL	1	1			1

Source:

Measure Discussion:

Adaptive management has been incorporated into the joint SFMP reporting process. In preparing the annual report Canfor and BCTS review the process and sources of information used to report performance and look for opportunities to improve.

Indicator 7-3 | Measure 7-3.2 Monitoring Plan

Measure Statement	Target and Variance
Monitoring plan for indicators is developed, documented, acted upon, and reviewed.	<u>Target:</u> at least once annually <u>Variance:</u> 0

As local public advisory groups select indicators and measures of sustainability, credible and cost effective monitoring plans for each are developed. The information gathered during monitoring is used in modeling/forecasting and assists in the development of management scenarios. The monitoring data also allows managers to determine if their management activities are effectively achieving the targets set out in SFM plans, LRMPs, FSPs, etc.

Table 76: Develop, document, act, and review of Monitoring Plans within the DFA

Date	Monitoring Plans				Total for DFA
	Developed (Y/N)	Documented (Y/N)	Acted Upon (Y/N)	Reviewed (Y/N)	
2007-03-28	Y	Y	Y	Y	
TOTAL					0

Source: PAG meeting summaries

Measure Discussion:

Indicator 7-3 | Measure 7-3.3 Annual Report

Measure Statement	Target and Variance
Reports and analysis of monitoring information – annual report.	<u>Target:</u> at least once annually <u>Variance:</u> 0

Analysis of the results of status and trend monitoring is an important aspect of adaptive management. It is a component of accountability and allows the public to see how progress is being made in implementing resource management strategies. Analysis of monitoring data will be reported to area resource managers and the public so that changes to the SFM Plan, to practices or to measures can be evaluated. The SFMP Annual Report will provide the reports and discussion on analysis of the measures. The development and use of the SFMP Annual Report will assist with the improving of the measures and improving with SFM in an ongoing basis.

Table 77: SFM Annual Report

Annual Report Dates							

Source: PAG meeting summaries

Measure Discussion:

What Happened?	Rationale Why (Root Cause)?	Action Plan
The PAG were not given the opportunity to review and comment on the current SFM annual report.	There was only 1 meeting during the reporting period, and the agenda was constrained by a number of issues and factors.	Licensees and BCTS to hold a more regular meeting schedule in order to allow adequate time once a year for the PAG to review and comment on the annual report.

Indicator 8-1 | Measure 8-1.1 Heritage Conservation

Measure Statement	Target and Variance
Percentage of forest operations consistent with the Heritage Conservation Act.	<u>Target:</u> 100% <u>Variance:</u> 0%

The protection of cultural heritage values assures they will be identified, assessed and their record available to future generations. A cultural heritage value is a unique or significant place or feature of social, cultural or spiritual importance. It may be an archaeological site, recreation site or trail, cultural heritage site or trail, historic

site or a protected area. Cultural heritage values often incorporate First Nation's heritage and spiritual sites, but they can also involve features protected and valued by non-Aboriginal people. Maintenance of cultural heritage values is an important aspect to sustainable forest management because it contributes to respecting the social and cultural needs of people who traditionally and currently use the DFA for a variety of reasons.

The measure is designed to ensure that operational plans with identified strategies to conserve cultural heritage values have those strategies implemented on the ground. Tracking the level of implementation will allow the signatories to evaluate how successful this implementation is and improve procedures if required.

Table 78: Forest Operations consistency with the Heritage Conservation Act

Signatory	Total Number of Forest Operations that have associated sites protected under the Heritage Conservation Act (pre 1846)				Number of Forest Operations Completed in Accordance with the Heritage Conservation Act	Percent
	Roads	Harvesting	Silviculture	Total		
Canfor	0	0	0	0	0	100.0%
BCTS	0	0	0	0	0	100.0%
TOTAL	0	0	0	0	0	100.0%

Source: Signatory operational plans

Measure Discussion: There were no operations with associated sites protected under the Heritage Conservation Act conducted during the reporting period.

Indicator 8-1 | Measure 8-1.2 TOR Review (First Nations Rights)

Measure Statement	Target and Variance
Maintain and review at least annually and as required the Mackenzie SFMP PAG Terms of Reference to recognize that First Nation participation in the public process will not prejudice First Nations rights and Treaty rights.	<u>Target:</u> At least once annually <u>Variance:</u> none

It is the intent of the signatories to respect all duly established First Nations and Treaty rights. This measure was designed to ensure the PAG Terms of Reference respects First Nations treaty right and participation without prejudice.

Table 79: Review of Public Advisory Group Terms of Reference

Review of ToR and Recognition of Aboriginal and Treaty Rights				Total for DFA
Meeting Dates				
2008-03-13				1

Source: PAG Meeting Summaries

Measure Discussion:

Indicator 8-2 | Measure 8-2.1 Participation (First Nations)

Measure Statement	Target and Variance
The number of opportunities for First Nations to provide meaningful input into our planning processes.	<u>Target:</u> >= 2 per First Nation <u>Variance:</u> none

This measure was designed to list and report out on all documented opportunities provided to First Nations people to be involved in forest management planning processes. Incorporation of First Nations people and their unique perspective into the forest planning process is an important aspect of SFM. This measure will contribute to respecting the social, cultural and spiritual needs of the people who traditionally and currently use the DFA for the maintenance of traditional aspects of their lifestyle.

Table 80: Opportunities for First Nations to participate in planning processes

Opportunity	Signatory	First Nation								Total
		Tsay Keh	Kwadacha	Takla Lake	Nak'azdli	McLeod Lake	West Moberly	Saulteau	Halfway River	

Open House	Canfor									
	BCTS									
Scheduled Meetings	Canfor									
	BCTS							1		1
Letters	Canfor	3	3	3	3	3	3	3	3	24
	BCTS	1		1				1		3
Newspaper Ads	Canfor	1	1	1	1	1	1	1	1	8
	BCTS									
Pest Management Prescriptions	Canfor									
	BCTS									
Natural Resource Committee	Canfor									
	BCTS									
TOTAL		5	4	5	4	4	4	6	4	36

Source: Signatory communication records.

Measure Discussion:

Indicator 8-3 | Measure 8-3.1 Concerns (First Nations)

Measure Statement	Target and Variance
Percentage of issues raised by First Nations peoples evaluated and responded to in a timely manner by Canfor and BCTS.	Target: 100% Variance: 50%

Incorporating management strategies into the planning process in order to resolve issues raised by First Nations leadership is a key aspect to sustainable forest management. This measure contributes to respecting the social, cultural heritage and spiritual needs of people who traditionally and currently use the DFA for the maintenance of traditional aspects of their lifestyle. The following key performance indicators apply to this measure and will be applied to communication strategies:

- 100% of communications from resource user will be responded to within 30 days.
- 100% of commitments made to resource users are delivered within the time frame specified.
- 100% of the applicable public is sent notification of planning and development activities associated with the Mackenzie DFA forest management activities.

Table 81: Concerns raised by First Nations and corresponding response from Canfor or BCTS

Signatory	Number of Issues Raised by First Nations' Peoples	Number of Issues Evaluated and Responded to in a Timely Manner	Percent
Canfor	1	1	100.0%
BCTS	1	0	0.0%
TOTAL	2	1	50.0%

Source: Signatory communication records and operational, tactical, or site plans.

Measure Discussion:

What Happened?

BCTS response was sent after 30 days.

**BCTS Rationale
Why (Root Cause)?**

There was uncertainty around BCTS' ability to engage parties in discussions on issues which appeared to be outside management obligations. Lack of awareness around SFM target. There has been ongoing communication to resolve issue.

Action Plan

Where responses are required to written inquiries, BCTS staff will utilize the tracking and reminder tools in ITS or the Genus Planning Module to record, assign responsibility, and set actions in place to ensure that response are made within the 30 day window.

Indicator 8-3 | Measure 8-3.2 Participation Effectiveness (First Nations)

Measure Statement	Target and Variance
Percentage of issues raised by First Nations' Chief and Council or their authorized representative developed into mutually agreed upon strategies.	<u>Target:</u> 100% <u>Variance:</u> 10%

The intent for this measure is to monitor actual resolution to concerns that arise through measure 8-3.1. In this way, the measure becomes an effectiveness monitoring measure and we make the assumption that more resolution to concerns raised by First Nations contributes to social value in general.

Table 82: The effectiveness of participation with First Nations

Signatory	Number of Issues Raised by First Nations' Chief & Council or Authorized Representatives	Number of Issues Developed Into Mutually Agreed Upon Strategies	Percent
Canfor	0	0	100.0%
BCTS	1	0	0.0%
TOTAL	1	0	0.0%

Source: Signatory operational, tactical, or site plans.

Measure Discussion:

What Happened?	Rationale Why (Root Cause)?	Action Plan
See measure 7.2-3 for a description of what happened.	Issues raised must be within the capacity of the signatories to address. There are on-going issues surrounding the capacity of First Nations to adequately address resource management issues but these are beyond the influence of the signatories.	Signatories to look at the relevance of this measure in relation to communication strategies, as well as looking at incorporating with similar measures that speaks to the similar underlying issue.

Indicator 8-4 | Measure 8-4.1 Participation Effectiveness (First Nations)

Measure Statement	Target and Variance
Incorporation of mutually agreed upon strategies to address First Nation peoples' values, knowledge, and uses into SFMP, operational plans, tactical plans, and/or site plans.	<u>Target:</u> 100% <u>Variance:</u> 50%

The development of mutually agreed upon management strategies is only the first step in SFM. Incorporation of those strategies into the SFMP, operational plans, tactical plans and/or site plans demonstrates recognition of First Nations forest values, knowledge, and uses. Monitoring adherence to these strategies is a measure of the success of these strategies to address the issues they were developed for.

This measure will report on the incorporation of the strategies that were developed to address First Nations issues. As these strategies are put into place tracking of plans incorporating these strategies will begin to determine whether these concerns are being addressed appropriately and the process developed to do so is working.

Table 83: Incorporation of First Nations strategies

Signatory	Number of Mutually Agreed Upon Strategies	Number of Strategies Incorporated Into SFM, Operational, Tactical, or Site Plans.	Percent
Canfor	0	0	100.0%
BCTS	0	0	100.0%
TOTAL	0	0	100.0%

Source: Signatory operational, tactical, or site plans.

Measure Discussion:

Indicator 8-4 | Measure 8-4.2 Implementation Effectiveness (First Nations)

Measure Statement	Target and Variance
Percentage of forest operations consistent with mutually agreed upon strategies developed with First Nations.	<u>Target:</u> 100% <u>Variance:</u> 0%

The consistency of forest operations with mutually agreed upon strategies “closes the loop” by taking the strategy and ensuring that it has been implemented as intended. Monitoring adherence to the implementation of these strategies is a measure of the success of the process outlined in Measures 8-3.1, 8-3.2, and 8-4.1 and monitors the success of these strategies to address the issues they were developed for.

This measure will report on the implementation of the strategies that were developed to address First Nations issues. As these strategies are put into place tracking of forest activities compliance with these strategies will begin to determine whether these concerns are being addressed appropriately.

Table 84: Implementation of First Nations strategies

Signatory	Total Number of Forest Operations				Number of Forest Operations Completed in Accordance with Agreed Upon Strategies	Percent
	Roads	Harvesting	Silviculture	Total		
Canfor	38	13	3	54	54	100.0%
BCTS	40	44	0	84	84	100.0%
TOTAL	78	57	3	138	138	100.0%

Source: Signatory operational plans

Measure Discussion: Mutually agreed upon strategies have yet to be established, however all operations were completed in accordance with current procedures.

Indicator 9-1 | Measure 9-1.1 Recreation

Measure Statement	Target and Variance
The percentage of harvest operations consistent with results and strategies for recreation values as identified in operational plans, tactical plans, and/or site plans.	<u>Target:</u> 100% <u>Variance:</u> 0%

This measure was designed to monitor the signatories' success at implementing planned requirements for recreation. Areas used for industrial forestry are also important to many others for their recreational values. Resources and opportunities for recreation include; berry picking, wildflowers (sensitive), bird watching, hiking, snowmobiling, canoeing, hunting, fishing, camping, skiing, etc. Plans, such as Site Plans, describe the activities forest operations must be consistent with to meet recreation objectives. By monitoring and tracking the consistency of operations with operational plans, forest managers can assess the success of their activities and take steps to improve operations if required. The consideration of non-timber values such as recreation is important to sustainable forest management as it recognizes the multiple benefits forests can provide to society.

Table 85: The percentage of harvest operations consistent with recreation strategies

Signatory	Total Number of Harvest Operations	Number Completed in Accordance with Recreation Requirements	Percent
Canfor	38	38	100.0%
BCTS	43	43	100.0%
TOTAL	81	81	100.0%

Source: Signatory operational plans

Measure Discussion:

Indicator 9-2 | Measure 9-2.1 Visual Quality

Measure Statement	Target and Variance
The percentage of harvesting and road building operations consistent with visual quality requirements as identified in operational, tactical, and/or site plans.	<u>Target:</u> 100% <u>Variance:</u> 0%

The measure is designed to ensure that those operational plans with identified strategies to conserve visual quality have those strategies implemented on the ground. The maintenance of visual quality in scenic areas is an important aspect of sustainable forest management because this measure contributes to overall landscape condition and social acceptance of industrial forestry. Monitoring the success of the requirements of the operational, tactical and/or site plans to meet VQOs will help to ensure that visual quality is conserved for future generations.

Visually sensitive areas are defined as viewsapes that have been identified through a previous planning process. During Forest Stewardship Plan preparation, scenic areas are identified on a map and if harvesting operations are planned for an area that contains VQOs, information will be further identified in a Site Plan. Visual Impact Assessments (VIAs) help determine block shape, location and internal retention options. At the site level, strategies are included in the Site Plan to minimize visual impacts.

Table 86: The percentage of harvest operations consistent with visual quality requirements

Signatory	Total Number of Forest Operations			Operations with visual quality Requirements	Number of Forest Operations Completed in Accordance with Results or Strategies	Percent
	Roads	Harvesting	Total			
Canfor	38	13	51	0	0	100.0%
BCTS	30	43	73	7	7	100.0%
TOTAL	68	56	124	7	7	100.0%

Source: Signatory operational plans

Measure Discussion:

Indicator 9-2 | Measure 9-2.2 Green-up buffers

Measure Statement	Target and Variance
The percentage of harvest operations consistent with visually effective green-up buffer along roads as identified in the Mackenzie LRMP.	Target: 100% Variance: 0%

The public generally has a negative perception of large disturbance events regardless whether they are unmanaged-natural events or those associated with resource development. Often these events change our view of landscapes over large areas for long periods of time. The magnitude of anthropogenic change, both spatially and temporally, can be mitigated by retaining visual barriers (e.g., along road ways) in the form of green trees and other vegetation. There is also a safety hazard associated around FSRs and main haul roads where blowing snow can hamper visibility. Our intent with this measure is to monitor our commitment to minimizing the safety hazard and the apparent negative visual effect of large disturbances caused by forest harvesting, in those locations referenced in the Mackenzie LRMP.

Table 87: The percentage of harvest operations consistent with green-up buffers along roads

Signatory	Total Number of Harvest Operations	Number Consistent with Green-Up Buffers	Percent
Canfor	38	38	100.0%
BCTS	43	43	100.0%
TOTAL	81	81	100.0%

Source: GIS

Measure Discussion:

Indicator 9-3 | Measure 9-3.1 Resource Features

Measure Statement	Target and Variance
Percent of identified unique and/or significant places and features of social, cultural, or spiritual importance that are managed or protected.	Target: 100% Variance: 0%

Resource features are site-specific elements that have a unique importance because specific ecological factors exist in combination at one place and don't often occur similarly elsewhere. Examples are caves, Karst, or culturally modified trees but in general can be declared through regulation as any of the following:

- Karst;
- A range development;
- Crown land used for research;
- Permanent sample sites;
- A cultural heritage resource;
- An interpretive forest site or trail;
- A recreational site or trail; or
- A recreational feature.

These features are generally considered to have value to society so we assume that through conservation of these features we are contributing to social value. Our intent with this measure is to monitor our commitment to manage and protect regulated resource features.

Table 88: The percentage of resource features that are managed or protected

Signatory	Number of Identified Resource Features Within Areas of Operation	Number of Identified Resource Features Managed or Protected	Percent
Canfor	0	0	100.0%
BCTS	0	0	100.0%
TOTAL	0	0	100%

Source:

Measure Discussion:

Indicator 9-4 | Measure 9-4.1 Safety Policy

Measure Statement	Target and Variance
Written safety policies in place and full implementation are documented.	Target: 2 Variance: 0

Each signatory has a written safety policy in place which is reviewed by the safety committee a minimum of once every year and revised as necessary and approved by management. If an incident occurs the cause of the incident is determined and recommendations are put forward. These recommendations may result in a change to a specific policy. Annual audits will be conducted and Action Plans developed for any item that requires attention detailing the person responsible for the item and the deadline for completion.

Table 89: The number of safety policies in place

Signatory	Written Safety Policies in Place and Implementation Documented ? (Y/N)
Canfor	1
BCTS	1
TOTAL	2

Source: Signatory safety records

Measure Discussion:

Indicator 9-4 | Measure 9-4.2 Accidents

Measure Statement	Target and Variance
Number of lost time accidents in woodlands operations.	Target: 0 Variance: 0

Health and safety of forest workers and members of the public is an important quality of life objective that is essential to SFM. All signatories consider employee and public safety as a primary focus of all forestry related operations. Evidence of this high priority can be seen in various company mission statements and individual EMS policies. This measure was developed to track and report out on the number of lost time workplace accidents that occur within Canfor's woodlands division and the field operations of BCTS. Operations conducted outside the woodlands division and field operations have been excluded from this measure; however the signatories currently promote safety in all aspects of forest management operations. Two types of workplace accidents are the most common within the forest industry including lost time accidents (LTA) or incidents where

medical aid or treatment was necessary but no loss of work time was experienced by the employee. Through this measure, only LTA will be tracked and monitored.

Table 90: The number of lost time accidents

Signatory	Number of Lost Time Accidents
Canfor	0
BCTS	0
TOTAL	0

Source: Signatory safety records

Measure Discussion:

Indicator 9-5 | Measure 9-5.1 Signage

Measure Statement	Target and Variance
Signage on FSRs and main haul roads to be kept current.	Target: 100% Variance: -5%

People value being informed of most activities that take place on public lands including those associated with industrial forestry. Signage establishes a standard for safety and otherwise helps inform public about the nature and extent of industrial activity. Conversely, if signage is not kept current, credibility of the signs declines resulting in a potential safety hazard. With this measure we will monitor our commitment to making information about our activities current and available to those traveling the roads and trails of the Mackenzie DFA.

Table 91: The percentage of industrial activities that have signs removed following completion of activities

Signatory	Number of Completed Industrial Activities with Signs Posted to Advise the Public	Number of Signs Removed Following Completion	Percent
Canfor	3	3	100.0%
BCTS	34	33	97.1%
TOTAL	37	36	97.3%

Source:

Measure Discussion:

Appendix 1

Table 2: Old, Old/Mature, and Old Interior Forest Retention on the Mackenzie Defined Forest Area

Landscape Unit Grouping	Biodiversity Emphasis	BEC Group	BEC Group Area	Serai Stage Category					
				Old		Old/Mature		Old Interior	
				Target	Actual	Target	Actual	Target	Actual
Akie/Akie River	Low	2	74,831	9.0%	60.7%	14.0%	83.3%	0.9%	64.8%
		7	34,462	11.0%	40.7%	11.0%	64.5%	1.1%	55.5%
Blackwater/Muscovite	Low	2	22,048	9.0%	57.4%	14.0%	70.7%	0.9%	73.0%
		5	63,743	9.0%	18.0%	15.0%	28.4%	0.9%	25.4%
		4/7	102,646	11.0%	26.4%	11.0%	43.2%	1.1%	26.3%
Buffalohead/Ed Bird - Estella	Low	2	33,974	9.0%	62.2%	14.0%	80.2%	0.9%	68.0%
		7	29,186	11.0%	32.9%	11.0%	54.4%	1.1%	42.5%
Clearwater	Intermediate	3	63,564	19.0%	53.1%	36.0%	61.7%	9.5%	53.4%
		2	10,808	9.0%	16.2%	28.0%	55.0%	2.3%	58.8%
		5	23,477	9.0%	30.8%	31.0%	48.4%	2.3%	34.8%
Collins - Davis	Low	3	40,343	19.0%	46.6%	19.0%	57.7%	4.8%	49.1%
		2	56,765	9.0%	37.6%	14.0%	64.6%	0.9%	52.4%
		5	34,006	9.0%	18.7%	15.0%	36.1%	0.9%	31.7%
		7	15,061	11.0%	33.0%	11.0%	53.8%	1.1%	39.4%
		4	25,213	11.0%	15.5%	11.0%	44.1%	1.1%	15.5%
Connaghan/Eklund/Jackfish/S. Germansen - U. Manson	High	2	33,243	13.0%	52.8%	42.0%	87.6%	3.3%	73.6%
		4	5,625	16.0%	65.8%	34.0%	80.8%	4.0%	54.2%
		5	1,288	13.0%	51.2%	46.0%	51.2%	3.3%	29.8%
		7	16,031	16.0%	11.6%	34.0%	82.3%	4.0%	57.4%
Gaffney/Manson River	Low	2	84,746	9.0%	54.3%	14.0%	68.1%	0.9%	61.9%
		5	6,174	9.0%	29.5%	15.0%	33.1%	0.9%	37.0%
		4	81,592	11.0%	36.2%	11.0%	56.5%	1.1%	30.9%
Germansen Mountain	Low	2	7,565	9.0%	47.9%	14.0%	89.7%	0.9%	66.9%
		7	816	9.0%	26.9%	9.0%	86.1%	0.9%	47.3%
Gillis/Klawli	Intermediate	2	87,692	9.0%	50.2%	28.0%	75.8%	2.3%	48.6%
		7	5,776	11.0%	23.7%	23.0%	80.8%	2.8%	52.6%
		4	16,747	11.0%	34.7%	23.0%	56.3%	2.8%	24.0%

Landscape Unit Grouping	Biodiversity Emphasis	BEC Group	BEC Group Area	Old		Old/Mature		Old Interior	
				Target	Actual	Target	Actual	Target	Actual
Kennedy	High	3	17,415	28.0%	76.6%	54.0%	82.8%	14.0%	64.3%
		4	278	13.0%	35.9%	46.0%	46.0%	3.3%	67.7%
		5	5,856	13.0%	20.8%	46.0%	25.5%	3.3%	64.1%
Lower Akie/Lower Pesika	High	2	5,279	13.0%	34.1%	42.0%	62.2%	3.3%	90.7%
		7	15,729	16.0%	29.9%	34.0%	56.2%	4.0%	53.2%
Lower Ospika	Intermediate	3	17,658	19.0%	49.7%	36.0%	66.2%	9.5%	48.3%
		2	50,086	9.0%	39.2%	28.0%	57.1%	2.3%	43.8%
		5	6,233	9.0%	39.2%	31.0%	51.9%	2.3%	48.8%
		4	23,161	11.0%	29.4%	23.0%	55.7%	2.8%	32.5%
Misinchinka/Tudyah	Low/Int.	3	42,744	19.0%	73.5%	19.0%	82.8%	4.8%	77.3%
		5	36,545	9.0%	45.0%	15.0%	50.4%	0.9%	38.7%
		4	21,251	11.0%	18.4%	15.0%	40.9%	1.1%	26.1%
Morfee	Intermediate	4	1,023	11.0%	14.5%	23.0%	26.0%	2.8%	30.0%
Nabesche	Intermediate	3	50,013	19.0%	63.0%	36.0%	44.5%	9.5%	60.7%
		2	3,199	9.0%	34.0%	28.0%	60.5%	2.3%	41.6%
		5	13,653	9.0%	39.5%	31.0%	61.3%	2.3%	49.3%
		6	10,303	11.0%	23.8%	23.0%	49.7%	2.8%	30.9%
		4	4,811	11.0%	16.4%	23.0%	50.0%	2.8%	25.0%
Nation	High	5	818	16.0%	15.4%	46.0%	37.9%	4.0%	3.7%
		4	10,639	16.0%	22.1%	34.0%	42.8%	4.0%	17.4%
Parsnip	Intermediate	3	33,930	19.0%	51.7%	36.0%	66.6%	9.5%	61.6%
		5	16,552	9.0%	23.4%	31.0%	47.6%	2.3%	51.8%
		4	18,945	11.0%	21.6%	23.0%	42.6%	2.8%	16.4%
Pesika	Intermediate	2	33,406	9.0%	38.4%	28.0%	60.9%	2.3%	49.7%
		7	8,368	11.0%	25.5%	23.0%	65.5%	2.8%	55.2%
Philip/Philip Lake/Tudyah A	Low/Int.	2	65,756	9.0%	39.8%	14.9%	52.2%	1.0%	48.1%
		5	5,358	9.0%	15.5%	15.0%	25.5%	0.9%	18.0%
		4	125,529	11.0%	21.9%	11.8%	54.3%	1.2%	19.9%
Schooler	Intermediate	2	31,636	9.0%	41.2%	28.0%	49.1%	2.3%	67.3%
		6	16,123	11.0%	17.4%	11.0%	33.0%	2.8%	36.7%

Landscape Unit Grouping	Biodiversity Emphasis	BEC Group	BEC Group Area	Old		Old/Mature		Old Interior	
				Target	Actual	Target	Actual	Target	Actual
Selwyn	High	3	21,314	28.0%	57.0%	54.0%	68.4%	14.0%	47.8%
		5	20,143	13.0%	21.2%	46.0%	43.1%	3.3%	36.3%
		2	133	13.0%	7.4%	42.0%	50.1%	3.3%	30.2%
		6	4,945	16.0%	26.9%	34.0%	41.6%	4.0%	18.4%
		4	1,042	16.0%	11.1%	34.0%	88.4%	4.0%	78.5%
Twenty Mile	Intermediate	2	13,290	9.0%	65.3%	28.0%	85.0%	2.3%	65.0%
		7	3,391	11.0%	28.6%	23.0%	73.7%	2.8%	43.7%
Upper Ospika	High	3	8	13.0%	89.7%	54.0%	89.7%	6.5%	12.8%
		2	22,892	13.0%	63.1%	42.0%	84.4%	3.3%	82.2%
		4	3,046	16.0%	77.4%	34.0%	86.2%	4.0%	69.9%

Legend: = Below Target

= Above Target

BEC Group	BEC Zone/Subzone/Variant
2	ESSFmc, ESSFmv2, ESSFmv3, ESSFmv4, SWBmk
3	ESSFwc3, ESSFwk2
4	SBSmk1, SBSmk2, SBSwk1
5	SBSvk, SBSwk2
6	BWBSmw1, BWBSwk2
7	BWBSdk1

Mackenzie SFMP Annual Report 2007-2008 Reporting Period

Summary of changes to the annual report from the version given to the PAG on October 28th, 2008 and the final report posted on the web site in December 2008.

Overall, the version that was given to the PAG initially had 76 measures met, 6 pending, and 27 not met. The final annual report has 84 measures met, 7 pending, and 18 not met. Below is a summary of specific changes made to the annual report.

Measure	Changes made
1-1.1	Old forest – Changed to met. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
1-1.2	Interior Old forest – Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
1-2.1	Patch Size – Changed to met. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
1-2.2	CWD – Corrected the data for BCTS.
1-2.3	WTP – Changed to met. BCTS – upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report.
1-2.4	Riparian Management area Effectiveness – updated the data in the table. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
1-2.6	Caribou UWR – Changed to met. BCTS – upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report.
1-2.9	Peak Flow – Changed to pending.
1-2.10	Road re-vegetation - updated the data in the table. Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
1-2.12	Road risk assessment – Changed to met. BCTS – upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report.
1-3.2	SAR identification - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
1-3.4	LRMP wildlife management strategies - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
1-3.5	SAR management effectiveness - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
1-4.3	Sites of biological significance identification - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
1-4.5	Sites of biological significance effectiveness - updated the data in the table.
2-1.2	Soil conservation - updated the data in the table.
2-1.3	Terrain management - updated the data in the table.
2-1.4	Spills - updated the data in the table.
2-5.2	Risk management factors - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
4-1.2	Waste and residue - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
4-5.1	Competitive sale of timber - Changed to met. Upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report.
5-1.3	Range management effectiveness - updated the data in the table.
6-1.3	Business opportunities - updated the data in the table.
7-1.4	PAG satisfaction - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
7-1.5	PAG TOR review - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
7-1.8	PAG communication - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
7-2.3	Response to concerns - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
7-3.1	Adaptive management - Changed to met. Upon further probing into the reasons why this measure was not originally met, it was discovered that there was an error in the reporting of the data. This has now been cleaned up for the final annual report.
7-3.2	Monitoring plan - updated the data in the table.
8-3.1	Concerns (First Nations) - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
8-3.2	Participation effectiveness (First Nations) - Added further information regarding the performance of this measure, and possible CI actions that may be necessary.
9-1.1	Recreation - updated the data in the table.
9-2.1	VQO - updated the data in the table.
9-2.2	Green up buffers - updated the data in the table.

Mackenzie

Operational Strengths – Mackenzie

- **Despite the challenges faced by staff in light of the recent downsizing, the remaining staff demonstrated a high degree awareness of EMS and SFM requirements and commitment to continued implementation of the requirements.**
- **The field audit identified few operational issues or concerns, reflecting the effective establishment and implementation of operational controls at the operation.**
- **Excellent documentation in the last management review meeting minutes (Apr. 18, 2008) of the operation’s evaluation of FMS and SFM performance.**

Prior Non-conformities – Mackenzie

- **2005-233-1A-NC-03 (PWC): Closed.**
- **S2006-235-S1-NC-01 (PWC): Action plans partially implemented to address this issue (i.e., training of staff on water management issues). However, due to lack of active operations, the contractors' water management workshop has not yet taken place. NC remains open pending review of the operation's implementation of contractor training during the first audit following the start up of operations.**
- **S2006-235-S1-NC-02 (PWC): Closed.**
- **S2006-235-S1-NC-03 (PWC): Closed.**

New Findings – ISO 14001, CSA Z809 & PEFC CoC – Mackenzie

Non-conformities

- CSA Z809 7.3.6 – The CSA Z809 standard requires the organization to establish DFA-specific performance requirements that address all CSA SFM elements and record this information in the SFM plan and summary criteria and indicator table/matrix (including establishment and documentation of data on current status for each indicator). However, a review of the latest versions of the SFM plan and annual report determined that the current status has not yet been established and reported by Canfor for the following measures:
 - 1-1.5 (Productive Forest Representation);
 - 1-2.5 (Tree Species Composition);
 - 1-2.8 (Stream Crossings);
 - 1-2.10 (Road Re-vegetation);
 - 2-1.5 (Site Index);
 - 2-2.1 (Site Conversion);
 - 2-2.3 (Access Management Communication);
 - 4-2.4 (Support of Public Initiatives);
 - 5-1.1 (Non-timber Benefits);
 - 5-1.2 (SFM Implications of Non-timber values);
 - 6-1.5 (Support Opportunities); and
 - 9-3.1 (Resource Features).

In addition, the methodology for determining current status for measure 1-1.2 (interior forest) is inconsistent with the measure (i.e., reported on an NDT/BEO basis as opposed to an LU/BEC variant basis). (Mi)

New Findings – ISO 14001, CSA Z809 & PEFC CoC – Mackenzie

Non-conformities

- **CSA Z809 7.3.6 & 7.3.7 – The CSA Z809 standard requires the organization to establish DFA-specific performance requirements that address all CSA SFM elements (including establishment, implementation and documentation of alternative strategies). However, a review of the latest versions of the SFM plan and annual report identified the following deficiencies with respect to the establishment and implementation of strategies designed to meet the established targets:**
 - 1-2.2 (Coarse Woody Debris): The FIA-funded project to collect / establish CWD baseline data for the DFA has been delayed.
 - 1-3.3 (Species at Risk Management): Although Canfor conducted a SAR training session for staff and layout contractors, Canfor has principally relied to date on coarse filter management strategies to manage SAR.
 - 1-3.4 (LRMP Wildlife Management) and 1-3.6 (LRMP Wildlife Management Effectiveness): The signatories have not yet established LRMP RMZ-specific fine-filter wildlife species management strategies for all identified species potentially present in their operating areas.
 - 1-4.3 (Appropriate personnel trained in sites of biological significance identification): Although training materials have been developed, training of appropriate personnel has not yet occurred.
 - 1-4.4 (Sites of Biological Significance Management): The signatories have not yet established fine-filter management strategies for sites of biological significance potentially present in their operating areas. (Mi)

New Findings – ISO 14001, CSA Z809 & PEFC CoC – Mackenzie

Non-conformities

- CSA Z809 4.1(c) – The CSA Z809 standard requires ongoing and meaningful public participation. However, our assessment of the PAG process indicates that while significant opportunities and options for PAG member participation in SFM decisions are being created, there remain problems in achieving a quorum of PAG members to make formal decisions. NB: The inability to achieve a quorum at meetings or through email based voting undermines the ability of the remaining participants in the PAG to effectively demonstrate that the PAG is meeting its objectives, particularly with respect to sector based input. (Mi)
- CSA Z809 4.1 (d) – The CSA Z809 standard requires that the organization make progress towards or achievement of performance targets. However, our assessment of the SFM annual report for 2006/07 found that 18 of the 75 measures were not met within the prescribed variances. In addition, our review of measure 7-1.1 (list of affected parties) identified that the list had not been updated during the 2006/7 reporting period and is therefore incorrectly classified as having been met in the summary of performance. NB: The significant level of deviation from the performance targets set appears to be due to a combination of factors; however, a mismatch between the level of commitments made and the resources available for addressing those commitments, particularly with respect to future actions requiring data gathering, analysis and report generation is at least partially responsible. (Mi)

M

New Findings – ISO 14001, CSA Z809 & PEFC CoC – Mackenzie

Non-conformities

- **ISO 14001 4.4.6/CSA Z809 7.4.6 – The Mackenzie woodlands camp EOP and the petroleum & chemical handling & storage EI outline requirements for the storage and handling of fuel and hazardous wastes. However, an inspection of the Philip Camp identified the following fuel and hazardous materials storage and labeling deficiencies:**
 - A number of barrels containing fuel or used hazardous materials were stored in the open without bungs, which is contrary to the operation's Petroleum & Chemical Handling & Storage EI (i.e., 2 used hydraulic oil barrels and a cylinder oil barrel near the fuel dispensing and recycling station).
 - ✓ - 2 barrels containing used hydraulic oil were not labeled as such, which is contrary to the operation's Petroleum & Chemical Handling & Storage EI (i.e., were stored in hydraulic oil barrels).
 - Incinerator diesel tank and line without secondary containment, which is contrary to the operation's Petroleum & Chemical Handling & Storage EI (however this has been identified by the operation).
 - A number of other barrels containing a variety of hazardous materials (e.g., grease tubes, used oil filters and used diesel) were stored in the open without secondary containment (not contrary to operation's procedures, but could be improved upon). (Mi)
 - ✓

New Findings – ISO 14001, CSA Z809 & PEFCC CoC – Mackenzie

Non-conformities

- ISO 14001 4.3.2 – Although the FMS Manual, Sec. 4 indicates that the Woodlands Manager is responsible for considering how legal and other requirements might affect their environmental aspects, the operation has not established, implemented and maintained a clear procedure as to how it will determine how its applicable legal and other requirements apply to its environmental aspects. (Mi – Corporate issue)
- PEFCC Annex 4, Element 4.6.2 – The Mackenzie internal audit report was only completed on July 23, 2008 and has not yet been the subject of a management review as required under the PEFCC standard. (Ma)
- PEFCC Annex 4, Element 4.2.1.3 – The last divisional management review was completed on April 18, 2008, 2008. It included a brief statement to the effect that the Operation intends to achieve certification to the PEFCC CoC standard. However, the Mackenzie Operation has yet to complete a formal review of the CoC system and it's compliance to the PEFCC CoC standard. As such, the system is not yet fully implemented and cannot be certified to the standard at this time. (Ma)
- PEFCC Annex 4, Element 4.3 – The Mackenzie operation has completed a copy of the divisional CoC EOP. However, the EOP remains in draft form and is not being managed as a controlled document. (Mi)

New Findings – ISO 14001, CSA Z809 & PEFC CoC – Mackenzie

Opportunities for improvement

- **CSA Z809 7.3.6 – The SFMP contains a number of measures and targets that the operation will find difficult to meet as a result of the recent curtailment of operations. However, the operation has yet to conduct a risk assessment to determine those targets which would be most negatively impacted by the shutdown and develop an associated action plan to address this. (OFI)**
- **ISO 14001 4.3.3 – The ISO 14001 standard requires the organization to establish, implement and maintain documented objectives and targets which are measurable where practicable. FMS, Sec. 5 also requires the objective, targets and programs to be measurable in a way which allows consolidated reporting on the company’s environmental performance trends. However, a review of the operation’s environmental objectives, targets and programs for the last year determined that they are not particularly measurable (i.e., they simply state “address 3 of the top 5 environmental aspects, improve FMS/SFM awareness and understanding by on-the-ground supervisors, and improve water management for water quality”).**

New Findings – ISO 14001, CSA Z809 & PEFC CoC – Mackenzie

Isolated issues

- **CSA Z809 5.2f** - The CSA Z809 standard requires the organization to establish and maintain a list of interested parties (including the names and contact information). However, the list posted on the SharePoint site has not been updated since Oct. 20 06 to reflect changes to membership (i.e., 3 members leaving and 1 new member joining since that time).
- **ISO 14001 4.5.1/CSA Z809 7.5.1** – It is not clear that adequate inspections of the Phillip camp oil water separator are occurring (i.e., visual inspections are being done on a monthly basis, however comprehensive inspections as per the Storm Water Separator weekly and monthly SOPs are not being done, and the camp inspection form being used does not prompt for an inspection of the oil water separator and associated documentation of the results of the inspection).
- **ISO 14001 4.4.6/CSA Z809 7.4.6** – The field audit of I23-0646 and I22-0658 identified opportunities to improve upon the temporary deactivation of the on-block roads (i.e., on some slopes there were no cross-ditches or waterbars or they were placed at a significant distance apart and consequently some road scouring was evident and in the case of 0658 the culvert was plugged and road scoured at the crossing).
- **ISO 14001 4.4.6/CSA Z809 7.4.6** – The field audit of K21-0678 identified incidents of soil disturbance along a number of skid trails up a slope. Although some disturbance is unavoidable and expected, there was an opportunity to assess during the final inspection the opportunity to rehabilitate those skid trails with more significant disturbance to reduce the risk of erosion.

**BCTS External Audit
December 15th, 2008**

Summary of Audit Findings for Mackenzie SFMP

OFI

Section 7.3.7 of the CSA Z809 standard requires the organization to document, maintain and make publicly available an SFM plan for the DFA that is to include current status and forecasts for each indicator, including a description of the assumptions and analytical methods used for forecasting. However, a review of the latest version of the Mackenzie SFM plan (Dec. 2008) and associated appendices posted on the BCTS public website found that current status and associated information as presented in the plan weakens its value as a communication tool. Specifically: In Section 5.2 the plan specifies that the current condition for a number of the indicators is unknown or will be determined by a specific (now passed) date.

For a number of indicators Section 5.2 references Appendix G (Indicator/Measure Status Report) as having the current status information, despite this information not being presented in the appendix (i.e., Appendix G it contains current status as of 2005/06 when it was unknown for some of the indicators included in the plan).

OFI

Section 5.4.a) of the CSA Z809 standard requires that interested parties have opportunities to work with the organization to design monitoring programs, evaluate results and recommend improvements. However, although a draft version of the 2007/08 Mackenzie SFM plan annual report was provided to the PAG for review during the October 28, 2008 meeting, meaningful evaluation of the report by the PAG was hindered as follows: The draft annual report was not provided to the PAG in advance of the meeting.

The Licensee Steering Committee made revisions to the annual report subsequent to the PAG meeting which, along with the summary of changes, was posted to the BCTS website without first reconvening a PAG meeting to allow the PAG to review the final version of the report.

Developing Baseline Data of Tree Species Composition in Unmanaged and Managed Forests by BEC Zone/Subzone/Variant in the Mackenzie Defined Forest Area



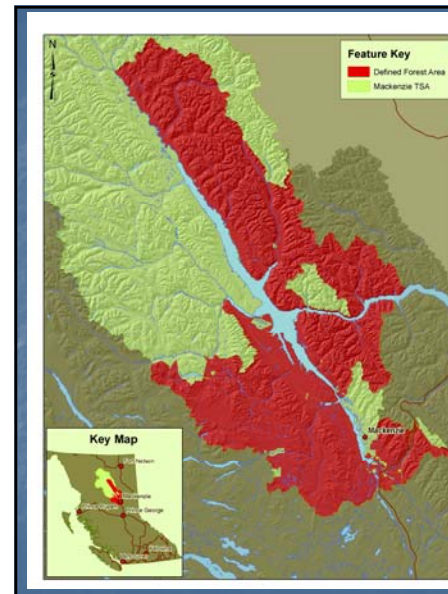
Project Objective

- To delineate the relative percentage composition of forest species groups on unmanaged and managed stands within groupings of the biogeoclimatic (BEC) zones/subzones/variants.



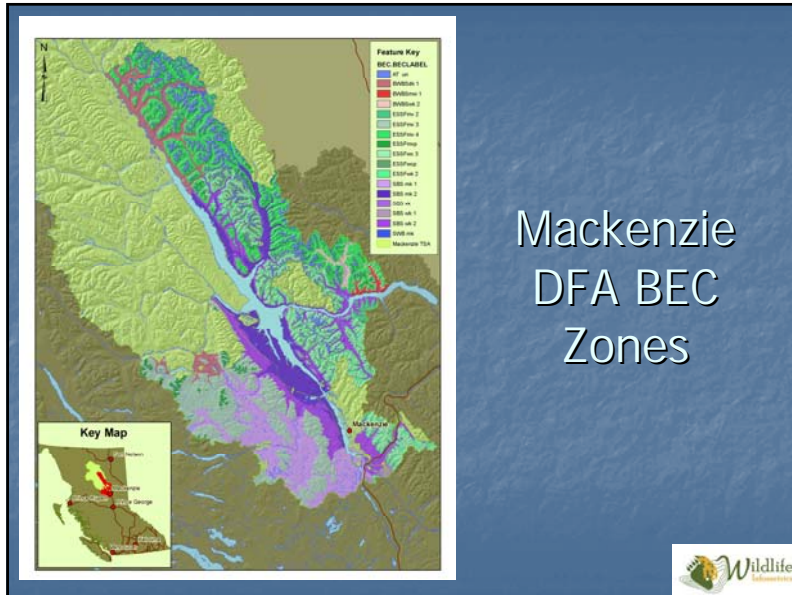
Study Area

- Mackenzie Defined Forest Area (DFA)
- ≈ 2.12 million hectares
- ≈ 1.6 million hectares forested
- 4 BEC zones divided into 17 subzones and variants
- The DFA is divided into four timber supply land classifications:
 - Contributing ($\approx 981,349$ ha)
 - Partially Contributing ($\approx 46,856$ ha)
 - Non-Contributing ($\approx 562,830$ ha)
 - Excluded ($\approx 490,636$ ha)

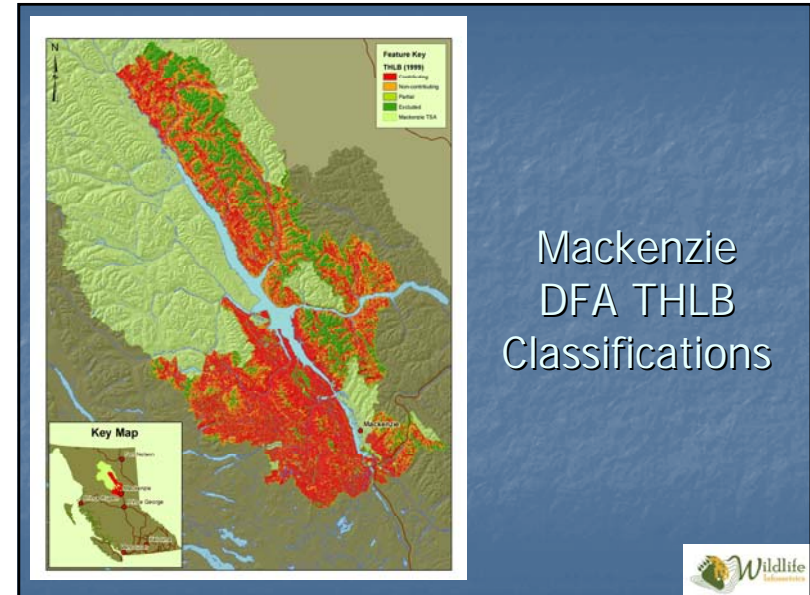


Mackenzie Defined Forest Area





Mackenzie DFA BEC Zones



Mackenzie DFA THLB Classifications

Unmanaged Stands Spatial Data Methods

- Forest Cover and THLB data from the 1999 Mackenzie Landscape Unit Planning (LUP) exercise were unarchived and merged together with BEC data to create a resultant database for aspatial analysis of unmanaged stands
- LUP data were used to provide the greatest amount of historic unmanaged stand information

Managed Stands Spatial Data Methods

- THLB data from the 1999 Mackenzie Landscape Unit Planning exercise was merged together with current Vegetation Resource Inventory (VRI) and BEC data to create a resultant database for aspatial analysis of managed stands
- VRI data were used to provide the most recent information on harvesting activity

Unmanaged and Managed Stands Definitions

- A simple stand age boundary was established to delineate unmanaged stands from managed stands
- Stands that were established by \approx 1965 were considered to be unmanaged
- Stands that were established after 1965 were considered to be managed



Forest Species Groups

- To simplify the analyses forest species were categorized into analytical groups as follows:
- Deciduous Group (AC, AT, E, EP, DR)
- Fir group (B, BA, BL, FD)
- Pine group (PL)
- Spruce group (S, SW, SE, SS, SX)
- Other group (L, LW, SB)



Percent Representation by Species Groups

- An Access Visual Basic code module was used to assign forest species to analytical groups and to cycle through all 6 species codes record by record, and sum species percents into their respective analytical group
- In stand composition analyses the percent cover of each analytical group was applied as a weighting factor to stand area to generate estimates of total area occupied by each analytical group



BEC Groups

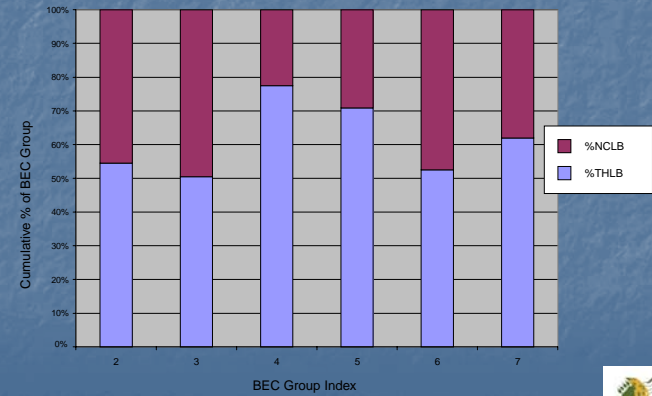
- The 17 BEC zone/subzone/variants were grouped into 7 categories according to the ILMB (2007):
 - 1 = AT, ESSFmvp, ESSFwcp
 - 2 = ESSFmv2, ESSFmv3, ESSFmv4, SWBmk
 - 3 = ESSFwc3, ESSFwk2
 - 4 = SBSmk1, SBSmk2, SBSwk1
 - 5 = SBSvk, SBSwk2
 - 6 = BWBSmw1, BWBSwk2
 - 7 = BWBSdk1
- Analyses were conducted on BEC Groups 2 – 7 for the THLB, NCLB, and the Total Analyzable Area (TAA; THLB and NCLB combined)



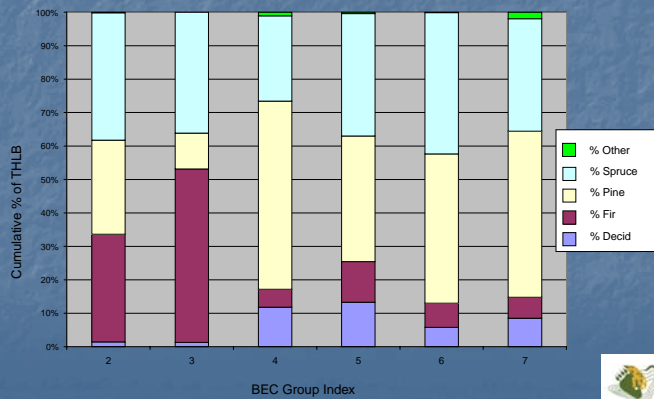
Unmanaged Stands Results



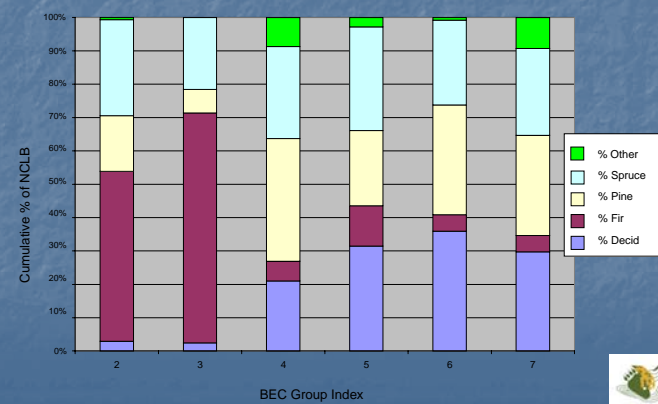
Analyzable Land Base for Unmanaged Stands by BEC Groups



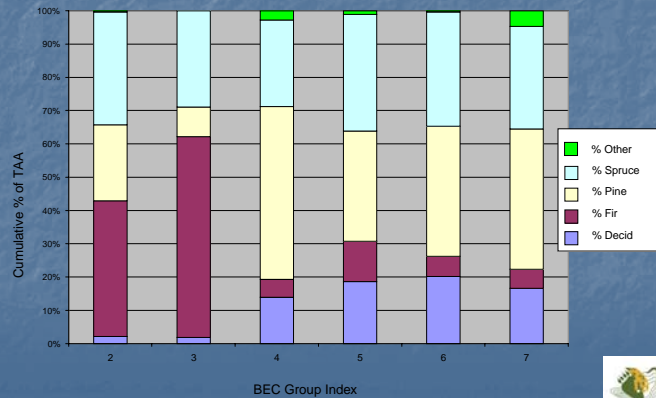
% of THLB for Unmanaged Stands by BEC and Species Groups



% of NCLB for Unmanaged Stands by BEC and Species Groups



% of TAA for Unmanaged Stands by BEC and Species Groups

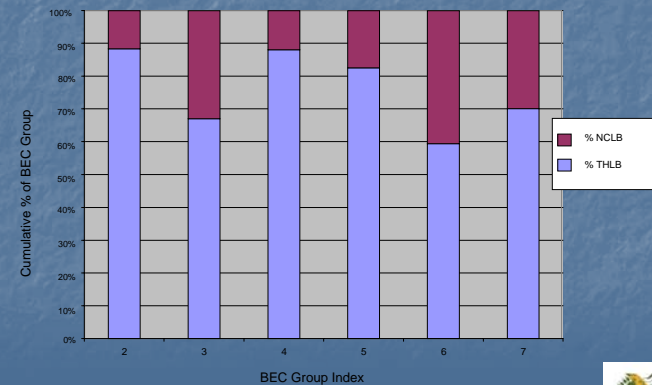


Major Points – Unmanaged Stands

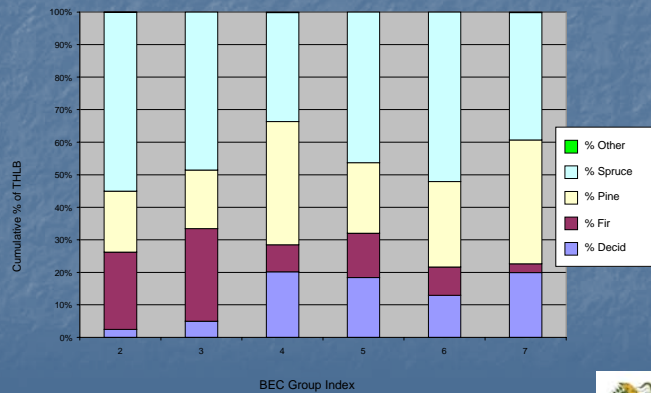
- Based on LUP data, unmanaged stands occupy $\approx 87\%$ of THLB and $\approx 96\%$ of NCLB
- There is greater representation of fir and a lesser representation of pine in upland BEC groups, and a greater representation of pine in lowland BEC groups
- Pooled across BEC groups, forest species composition is $\approx 31\%$ spruce, $\approx 31\%$ pine, $\approx 28\%$ fir, $\approx 8\%$ deciduous, and $\approx 1\%$ other species
- Pooled across BEC groups, $\approx 29\%$ of the unmanaged area is in essentially pure ($\geq 90\%$ one species) stands: $\approx 13\%$ pine, $\approx 10\%$ fir, $\approx 4\%$ spruce, $\approx 2\%$ deciduous, and $< 1\%$ other.

Managed Stands Results

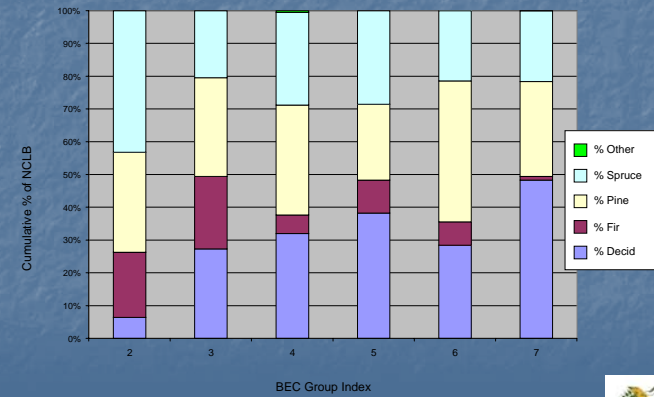
Analyzable Land Base for Managed Stands by BEC Groups



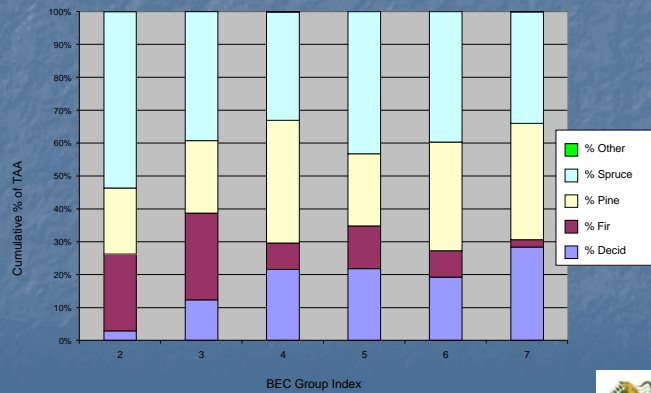
% of THLB for Managed Stands by BEC and Species Groups



% of NCLB for Managed Stands by BEC and Species Groups



% of TAA for Managed Stands by BEC and Species Groups



Major Points – Managed Stands

- Both the greater amount of THLB, and the small amount of the Other species group, meets expectations and supports the use of a simple age boundary to separate unmanaged from managed stands
- Pooled across BEC groups, forest species composition is $\approx 40\%$ spruce, $\approx 29\%$ pine, $\approx 18\%$ deciduous, and $\approx 13\%$ fir
- Pooled across BEC groups, $\approx 20\%$ of the managed area is in essentially pure ($\geq 90\%$ one species) stands: $\approx 11\%$ spruce and $\approx 8\%$ pine

Comparing Unmanaged to Managed Stands

- Managed stands were composed of a lesser percent in pure pine stands and a greater percent in pure spruce stands than unmanaged stands
- On the THLB, managed stands were composed of more spruce and deciduous species at the expense of pine and fir species
- On the NCLB, the most consistent difference was the greater representation of deciduous species on managed stands
- For BEC groups 2 and 3, managed stands on the NCLB showed a marked reduction in fir species and greater proportions of pine





SFM - Mackenzie TSA Peak Flow

15-Oct-2008

Current and Future State

Sensitivity Levels

1	50
2	40
3	35
4	30
5	25

Future State is estimated for 2013

Watershed	Responsibility	Min Elev	Max Elev	Change in Elevation	Area (ha)		Current ECA Area (ha)	Current PFI	Future ECA Area (Ha)	Future PFI
ALEY CREEK		725	2,460	1,735	14,951		232	1.5	191	1.3
ATUNATCHE CREEK	ABITIBI	685	2,085	1,400	59,484		3,454	5.8	3,688	6.2
BALDEN CREEK		770	2,370	1,600	17,348		26	0.1	26	0.1
BEVEL CREEK		675	1,895	1,220	8,744		0	0.0	0	0.0
BLACKWATER CREEK		670	1,855	1,185	49,336		16,348	33.1	15,578	31.6
BLANCHARD CREEK		700	1,995	1,295	6,688		168	2.5	135	2.0
BRUIN CREEK		680	2,265	1,585	13,922		1,447	10.4	1,155	8.3
CARPWSD000003		670	980	310	4,347		429	9.9	429	9.9
CARPWSD000006		675	1,280	605	3,852		1,255	32.6	1,648	42.8
CARPWSD000007	BCTS	675	1,205	530	8,116		2,282	28.1	2,151	26.5
CARPWSD000024		765	1,605	840	40,296		6,319	15.7	5,279	13.1
CHICHOUYENILY CRE	ABITIBI	675	1,700	1,025	7,409		336	4.5	358	4.8
CIARELLI CREEK		840	1,835	995	11,667		1,414	12.1	1,205	10.3
COLIN CREEK		675	2,300	1,625	4,554		0	0.0	0	0.0
COLLINS CREEK	MOF	680	2,280	1,600	13,755		1,631	11.9	1,324	9.6
DASTAIGA CREEK		670	1,590	920	8,097		674	8.3	546	6.7
DAVIS RIVER		680	2,275	1,595	47,472		325	0.7	267	0.6
DES CREEK	BCTS	730	1,075	345	3,325		469	14.1	442	13.3
DUNNE CREEK		860	1,895	1,035	6,181		221	3.6	187	3.0
EKLUND CREEK	MOF	675	2,080	1,405	24,571		3,638	14.8	3,430	14.0
FINAWSD000005		680	2,410	1,730	47,431		133	0.3	195	0.4
FINAWSD000020		680	2,000	1,320	3,547		215	6.1	198	5.6
FINAWSD000035		680	2,315	1,635	5,918		32	0.5	22	0.4
FINAWSD000036		680	1,860	1,180	3,707		0	0.0	0	0.0
FINAWSD000039		675	2,000	1,325	3,435		38	1.1	38	1.1
FINAWSD000040		675	2,090	1,415	5,089		570	11.2	559	11.0
FINAWSD000041		670	2,080	1,410	18,296		5,320	29.1	5,197	28.4
FINAWSD000043	MOF	670	1,850	1,180	7,684		2,062	26.8	1,971	25.6
FINAWSD000044		675	915	240	3,679		203	5.5	195	5.3
FINAWSD000046		670	885	215	4,956		1,697	34.2	1,697	34.2
FINAWSD000057		860	1,775	915	3,246		311	9.6	279	8.6
FINLWSD000004		750	2,300	1,550	71,318		2,049	2.9	2,059	2.9
FINLWSD000018		720	2,305	1,585	44,234		1,123	2.5	1,345	3.0

Watershed	Responsibility	Min Elev	Max Elev	Change in Elevation	Area (ha)		Current ECA Area (ha)	Current PFI	Future ECA Area (Ha)	Future PFI
FINLWSD000028		965	2,450	1,485	14,574		0	0.0	0	0.0
FINLWSD000035		900	2,340	1,440	12,081		0	0.0	0	0.0
FINLWSD000066		725	1,510	785	5,202		318	6.1	430	8.3
FINLWSD000073		720	1,895	1,175	7,457		647	8.7	947	12.7
FINLWSD000087		680	2,350	1,670	71,929		94	0.1	59	0.1
FRIES CREEK		670	2,115	1,445	7,539		1,598	21.2	1,478	19.6
GAFFNEY CREEK	BCTS	825	1,830	1,005	49,173		11,953	24.3	13,074	26.6
GAGNON CREEK		670	1,735	1,065	11,292		928	8.2	1,028	9.1
GAUVREAU CREEK		675	2,345	1,670	20,276		158	0.8	132	0.7
GERMANSEN RIVER		750	1,970	1,220	22,907		874	3.8	827	3.6
GILLIS CREEK		995	1,940	945	61,968		2,149	3.5	8,316	13.4
GOODASANY CREEK		835	1,895	1,060	4,145		36	0.9	28	0.7
GRANITE CREEK		880	2,050	1,170	4,096		235	5.7	231	5.6
IVOR CREEK		675	2,165	1,490	4,524		51	1.1	890	19.7
JACKFISH CREEK		745	2,080	1,335	16,876		326	1.9	551	3.3
KIMTA CREEK		670	1,900	1,230	13,043		308	2.4	319	2.4
LAFFERTY CREEK		675	2,145	1,470	25,889		1,931	7.5	1,440	5.6
LAMONTI CREEK	ABITIBI	670	1,855	1,185	4,245		323	7.6	322	7.6
LIGNITE CREEK		675	1,610	935	16,511		1,394	8.4	2,092	12.7
LOST CABIN CREEK	BCTS	675	1,875	1,200	8,277		233	2.8	1,058	12.8
MANSON RIVER		670	1,895	1,225	62,601		10,973	17.5	9,967	15.9
MUNRO CREEK		800	1,845	1,045	8,827		2,319	26.3	2,679	30.4
NATION RIVER		75	1,765	1,690	55,863		9,225	16.5	15,725	28.1
NATRWSD000006		680	1,065	385	6,186		5,023	81.2	5,129	82.9
NATRWSD000018		725	1,780	1,055	12,258		1,548	12.6	1,179	9.6
NATRWSD000025		815	1,545	730	19,336		3,587	18.6	7,051	36.5
NATRWSD000040	ABITIBI	740	1,665	925	68,460		22,983	33.6	23,260	34.0
NATRWSD000044		785	1,370	585	9,906		1,544	15.6	1,472	14.9
NATRWSD000047		800	1,385	585	2,907		938	32.3	934	32.1
OLSEN CREEK		1,025	2,000	975	4,430		1	0.0	1	0.0
OSPIKA RIVER		670	2,410	1,740	75,929		909	1.2	912	1.2
OSPKWSD000018		800	2,260	1,460	12,532		0	0.0	0	0.0
OSPKWSD000023		765	2,420	1,655	9,963		8	0.1	13	0.1
OSPKWSD000027		740	2,430	1,690	6,149		29	0.5	31	0.5
OSPKWSD000030		715	2,230	1,515	4,017		0	0.0	0	0.0
OSPKWSD000032		710	2,070	1,360	6,330		842	13.3	691	10.9
OSPKWSD000034		690	2,260	1,570	8,315		368	4.4	327	3.9
OSPKWSD000036		675	2,320	1,645	13,292		381	2.9	319	2.4
PARAWSD000024		670	980	310	2,381		1,548	65.0	1,633	68.6
PARAWSD000036		670	1,535	865	6,220		384	6.2	352	5.7
PARAWSD000050	ABITIBI	670	1,770	1,100	23,346		1,622	6.9	2,429	10.4

Watershed	Responsibility	Min Elev	Max Elev	Change in Elevation	Area (ha)		Current ECA Area (ha)	Current PFI	Future ECA Area (Ha)	Future PFI
PARAWSD000052	BCTS	670	1,655	985	13,283		1,279	9.6	1,848	13.9
PARAWSD000057		670	1,645	975	5,599		586	10.5	1,366	24.4
PARDONET CREEK	ABITIBI	675	1,855	1,180	6,275		0	0.0	505	8.0
PARSWSD000009		695	1,795	1,100	28,877		624	2.2	1,004	3.5
PCEAWSD000002	ABITIBI	850	2,440	1,590	64,643		3,065	4.7	3,307	5.1
PCEAWSD000040		675	1,910	1,235	8,457		0	0.0	0	0.0
PCEAWSD000094		680	1,945	1,265	18,782		0	0.0	0	0.0
PCEAWSD000111		680	2,320	1,640	63,062		2,384	3.8	3,659	5.8
POINT CREEK	MOF	680	2,410	1,730	9,951		658	6.6	635	6.4
POLICE CREEK		680	2,115	1,435	5,255		293	5.6	292	5.6
RAINBOW CREEK	BCTS	825	1,575	750	30,857		6,677	21.6	6,110	19.8
RUBYRED CREEK		675	2,265	1,590	4,378		0	0.0	0	0.0
SCHOOLER CREEK		680	2,075	1,395	26,910		354	1.3	337	1.3
SCOTT CREEK	ABITIBI	675	2,315	1,640	20,453		347	1.7	623	3.0
SCOVIL CREEK		670	1,600	930	11,448		2,243	19.6	2,844	24.8
SELWYN CREEK	ABITIBI	675	2,375	1,700	15,387		10	0.1	10	0.1
SHOVEL CREEK	MOF	680	1,875	1,195	4,432		439	9.9	475	10.7
SOUTH GERMANSEN		970	2,005	1,035	18,416		888	4.8	810	4.4
SYLVESTER CREEK		835	1,815	980	28,726		3,914	13.6	5,540	19.3
TRUNCATE CREEK		695	1,970	1,275	7,235		266	3.7	224	3.1
TWENTY MILE CREEK		765	2,020	1,255	18,052		339	1.9	475	2.6
WEASEL CREEK		675	1,945	1,270	3,218		0	0.0	72	2.2
WEST DOG CREEK		1,025	2,000	975	8,323		40	0.5	40	0.5
WEST NABESCHE RIV	ABITIBI	680	2,325	1,645	25,591		311	1.2	308	1.2
WESTON CREEK	BCTS	675	2,090	1,415	10,734		423	3.9	569	5.3

A summary of findings regarding Non-timber Forest Products (NTFPs) and their potential in the Mackenzie Timber Supply Area.



Angela Parnell
October 10, 2008

A summary of findings regarding Non-timber Forest Products (NTFPs) and their potential in the Mackenzie Timber Supply Area.

The use of Non-Timber Forest Products (NTFPs) in the Mackenzie Timber Supply Area (TSA) is largely un-documented. This is true not only of Mackenzie but also seems to be the trend provincially, nationally and, internationally. The lack of information regarding NTFPs seems to stem largely from the fact that this sector is mostly un-regulated and, there is a thread of secrecy prevalent among the 'sub-culture' like groups of people using many types of NTFPs. Despite the lack of public knowledge and awareness; "This rapidly growing sector contributes to the economic diversification of the province. In 1997 the sector was valued at \$600M per year, with over 30 000 British Columbians earning all or part of their living from the sector.... with mushrooms and floral greenery the largest 'crops.' There is [also] increasing interest in the potential of the wild-harvested nutraceutical and bio-products sub-sectors." Non-Timber Forest products (2008). With the realization that NTFPs contribute to the economic well being of our province and, those directly dependent on them, the need to incorporate them into sustainable forest management (SFM) became apparent.

Sustainable Forest Management: Developing a Framework

"Throughout the world, forestry has been moving steadily toward a multi-value approach to sustainable development – an approach that promises to revolutionize the way we think about, plan and, implement forest management. Since the mid-1980s, when the terms sustainable development and management were first coined, there has been growing global recognition of the need to improve how we develop and manage the world's natural resources. In response, forest management practices throughout the world have shifted toward adopting approaches aimed at balancing economic, ecological and, social interests.

The concepts of sustainability and sustainable forest management have been mostly developed and discussed at international and national levels. The challenge we currently face, however, is the meaningful application of this broad concept at the local level. Sustainable forest management is not a task to be completed once and for all, but a vision towards which we must actively strive. Tools are required to help forest practitioners, governments and public stakeholders define the vision of a sustainability managed forest and measure on-the-ground success in achieving that goal." Pearce, Boxall, Luckert, Haley (2004)

As a result of the combination of social pressures and scientific acknowledgement of the need for change in the way natural resources are managed; a Sustainable Forest Management (SFM) framework was developed. An inter-disciplinary team comprised of operational staff, academics, consultants, government agency staff, special interest groups, and other licensees collaborated to design the framework and test its components. What was produced was a rigorous approach to SFM that is objective and draws upon current knowledge and state of the art technology. This work resulted in a credible and

scientifically based SFM framework for the sustainable management of our forests. In order to implement this SFM framework a series of ecological, economic and, social values were determined; and there associated criteria and indicators (C&I) have been developed (see Appendix 1). For each indicator a series of ‘measures’ were also produced in order to determine success in SFM. Although all these criteria and indicators are designed to work together creating the common thread of SFM; this particular project is focused on the economic value of NTFPs, specifically in the Mackenzie TSA. NTFPs are addressed by criteria 5 and indicator 5-1 and the associated measures; 5-1.1 and 5-1.2.

Criterion 5 - The flow of marketed non-timber economic benefits from management unit forests is sustained

”The forests of British Columbia provide a host of commercial uses across the province. Commercial uses are those for which there is a marketplace and thus those that generate economic benefits. This criterion measures the economic benefits from identified non-timber products. Forest management must recognize the existing, and potential, economic benefits that can be derived from area forests beyond the primary forestry industry including tourism, mining, guiding, trapping and botanicals. SFM plans and practices have the potential to substantially impact the economic value of non-timber products from an area, and thus this issue warrants its own criterion.

The concept of ‘flow’ is used to highlight that there are a number of different types of economic benefits for different groups.” Pearce et al. (2004)

Indicator 5-1 - Amount and quality of marketed non-timber forest resources does not decline over the long-term.

“In general in British Columbia, there is an almost absolute lack of information about the non-timber resource coming from forests. There would have to be a substantial effort required to collect relevant information for this indicator. As well, there is uncertainty about what organization or level of government is best suited and should be responsible for collecting information and reporting on marketed non-timber benefits.

With that in mind, only one indicator has been developed for this criterion. In the absence of readily available information about non-timber resource values, this indicator requires only an assessment of the ‘units’ of marketed products that would be incorporated in an estimate of values. The indicator specifies both the amount and quality of marketed non-timber resources reflecting the concept that quality must also be taken into consideration. The measures of this indicator will highlight trends in marketed non-timber economic benefits from local forests and assist in developing strategies for sustaining these benefits over time.

Using criteria and indicators to measure and assess the sustainability of forest values over time and space requires that appropriate measurement units be selected so that managers, and ultimately, agency and public stakeholders, have confidence that the indicators are an accurate gauge of the effectiveness of the approaches used to meet specified criteria.

These variables, called measures, provide quantitative information about the status and/or trends of an indicator when monitoring over time. Measures of indicators represent the actual ‘things’ or land-based resources that are tracked over time and space. They provide the on-the-ground link to indicators, criteria and values, and signal the trend for each resource.” Pearce et al. (2004)

Sustainable Forest Management: Measures for Success

There are two measures associated with C&I for NTFPs. The following is a summary of the methods used in developing these two measures for the Mackenzie Sustainable Forest Management Plan (SFMP) measures 5-1.1 and 5-1.2 are included below.

5-1.1 Non-Timber Benefits

Measure: list of existing and documented potential for marketed non-timber benefits.

Process & Findings: I started by reviewing the NTFP reports produced for Canfor by contract for both the Prince George TSA and TFL 30. These documents gave me background information on which types of NTFPs they found being used and also reinforced that although this sector has a lot of activity there is very little definitive knowledge surrounding it.

I conducted numerous internet searches in order to identify as many NTFPs being harvested / marketed around the Northwest as I could. I assembled a large list of NTFPs and then; using a combination of; further internet searches, Wikipedia and, the E-flora atlas; tried to assess the existence (or potential existence) of the listed NTFPs within the Mackenzie TSA. The NTFPs determined not in existence in the Mackenzie TSA were deleted from the list.

After the first cut of the list I went through it again with further internet searches as to which NTFPs had known existing, or potential, markets. There are several relatively local businesses with existing markets for many of the listed NTFPs ranging from small individual shops to businesses with large international markets. There is also a lot of potential marketing of many NTFP products such as raw produce, baked goods, preserves, medicinals, and arts&crafts through craft fairs, farmers markets, and private sale. Mackenzie, and surrounding area, also has a large draw of eco and adventure tourism as well as guiding / hunting activities that are currently marketed with growing potential markets.

Outcome: Section 5-1.1 of the NTFP spreadsheet. (Appendix 2)

5-1.2 SFM Implication on Non-Timber Values

Measure: Description of potential implications of SFM practices on the amount and quality of marketed non-timber values.

Process & Findings: After completing the list of NTFPs from section 5-1.1 I explored these products further. I used internet searches and Wikipedia in order to help determine some potential impacts of SFM practices. With there being little information regarding these NTFPs already, there is even less to indicate these implications.

Outcome: Section 5-1.2 of the NTFP spreadsheet. (Appendix 2)

Further Research Projects:

The Future...

Although the potential for future projects and research surrounding NTFPs is vast; this particular project is meant to address NTFP values on a local level as it applies to the Mackenzie TSA. The work completed here is meant to preliminarily address NTFP measures as laid out in SFMP and, therefore, the potential for further development of these measures remains. The most relevant information on the use of NTFPs in the Mackenzie TSA would come from the local people harvesting and/or marketing these NTFPs and, as such there is some value in exploring this aspect further.

Proposal: BCTS needs to develop a discrete project to document the current use and importance of specific NTFPs in the Mackenzie TSA.

Objectives:

1. To document which products are currently harvested for commercial, personal, recreational and, traditional uses
2. To document the current harvesting quantum and general geographic/ecological areas where harvesting occurs
3. To facilitate information sharing with First Nation groups and other members of the public
4. To further develop SFM measures for NTFPs in the Mackenzie TSA

Process:

1. Collection of anecdotal information on harvest, use and public views on importance of local NTFPs. Using proposed methods such as voluntary surveys (newspaper/web/community meetings), personal contact with opinion leaders (harvesters etc), and consultation with FNs re cultural uses. In order to attempt to gain a further understanding on which NTFPs are most important.
2. Once some direct information is collected from the survey further discussions / interviews could be conducted with individuals that replied to determine the most important NTFPs and their concerns in sustaining them.

Discussion: Talking with the local people using these NTFPs in the Mackenzie TSA would give us the first hand knowledge necessary to take these higher level plans and apply them in a meaningful way at a local level. The problem that could arise with such

a project is the fact that information gathered would only be from the individuals who received the survey to begin with and then decided to respond, potentially leaving us with a small pool of people to draw from representing the greater diverse demographic. A widely advertised voluntary survey could get you around this point – i.e. those most interested will participate. The second wave is to ensure that you get the opinions of those whom harvest, use or rely upon the products – you can identify them and make sure you contact them. These steps should ensure you get the full set of ideas and I believe the cost of completing these next steps would be acceptable in order to obtain such pertinent knowledge.

... and Beyond

A common theme has developed with working on this project that comes to light several times through-out this report that; at this point there is an absolute lack of information regarding NTFP values and commercial activities dependant on them. There are still many further opportunities of future research projects associated with NTFPs and their sustainability; as such it is important to realize that vast amounts of time and money could be expended on the topic and so the value of future information should be carefully considered.

The report “A Framework for Sustainable Forest Management” lists the following as future research needs with regard to SFM and their implications to NTFPs:

- Basic understanding of the non timber economy
- Final product values
- Work force requirements

As at this point the harvesting and marketing of NTFPs is un-regulated if this was to change, future research into markets and sustainable harvest levels and practices may be required to develop sustainable management strategies.

In conclusion; NTFPs are being harvested and marketed around the world, including the Mackenzie TSA. For many NTFPs there are both small and large existing markets, as well as a huge potential for market growth. NTFPs are addressed in SFM planning but a lack of concrete information remains around these values. A list of known NTFPs potentially in the Mackenzie TSA has been developed here as well as the potential implications of SFM practices to these values. However; it is important to note, that as became apparent through my research potentially the biggest threat to NTFPs is over harvesting. This has not become a problem yet in BC, but is prevalent in the United States and, other parts of Canada. Further work could be done to expand upon this project and ensure that the NTFP values in the Mackenzie TSA that are of the most importance to the people harvesting and marketing them are incorporated into our SFM practices and; therefore, protected for those who depend on them and, the future generation who might.

October 10, 2008

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Appendix 1 – Revised Framework Criteria and Indicators

Criteria	Indicator
Ecological Values	
CI. Biological richness and its associated values are sustained in the defined forest area (DFA)	
	1-1. Ecologically distinct habitat types are represented in an unmanaged state in the DFA to sustain lesser known species and ecological function.
	1-2. The amount, distribution, and heterogeneity of terrestrial and aquatic habitat types elements and structure important to sustain biological richness are sustained.
	1-3. Productive populations of selected species or species guilds are well distributed throughout the range of their habitat
	1-4 Government designated protected areas and sites of special biological significance are sustained at the site and sub regional level
C II. The productive capability of forest ecosystems within the Timber Harvesting Landbase (THLB) is sustained.	
	2-1. Biological components of forest soils are sustained
	2-2. Area disturbed as a result of forestry activities is minimized
	2-3. Total growing stock of merchantable and non-merchantable tree species on forest land available for timber production
	2-4. No net detrimental loss in productivity as a result of forestry-related slope instability
	2-5 Natural disturbance levels and risk levels are managed for such that resistance to catastrophic change and the ability to recover on the landscape level is sustained
C III. Forest ecosystem contributions to global ecological cycles are sustained within the DFA	
	3-1 The forest ecosystem carbon pool for the defined management area is maintained or increased.
	3-2 The forest products carbon pool is maintained or increased.
	3-3 The processes that take carbon from the atmosphere and store it in forest ecosystems are sustained
Economic Values	
C IV. The flow of economic benefits from forests through the forest industry is sustained	
	4-1. Timber harvesting continues to contribute to economic well-being
	4-2. Citizens continue to receive a portion of the benefits
	4-3. Governments continue to receive a portion of the benefits
	4-4 Opportunities to share a portion of the benefits exist for First Nations
	4-5. A competitive, diversified forestry sector exists
	4-6 Levels of forest damaging events or agents are managed such that their economic impact is minimized
C V. The flow of marketed non-timber economic benefits from forests is sustained	
	5-1. Amount and quality of marketed non-timber forest resources does not decline over the long-term
C VI. Forest management contributes to a diversified local economy	
	6-1. Employment and income sources and their contribution to the local economy continue to be diversified
Social Values	
C VII. Decisions guiding forest management on the DFA are informed by and respond to a wide range of social and cultural values	
	7-1 Forest management planning adequately reflects the interests and issues raised by the public (stakeholders, residents and interested parties) in the DFA through an effective and meaningful (to the participants) public participation process
	7-2 Information is exchanged between DFA forest resource managers and the public through a varied and collaborative planning approach in order to facilitate capacity building in the community
	7-3 An adaptive management program is implemented for all levels of the Framework (Strategic, Tactical, Operational)
C VIII. Forest management sustains or enhances the cultural (material and economic), health (physical and spiritual) and capacity benefits that First Nations derive from forest resources	
	8-1 Forest management recognizes and respects Aboriginal and treaty rights
	8-2. Local management is effective in controlling maintenance of, and access to resources for First Nations
	8-3. The relationship between forest management and First Nations culture is acknowledged as important
	8-4. First Nations are provided with detailed, reciprocal knowledge pertaining to forest use as well as forest management plans prior to governmental approval and implementation
C IX. Forest management sustains ongoing opportunities for a range of quality of life benefits	
	9-1. Resources and opportunities for recreation (including quality of experience) are maintained or enhanced
	9-2. Visual quality of harvested/managed landscape is acceptable to a broad range of stakeholders/visitors
	9-3. Forest management conserves unique or significant places and features of social, cultural, spiritual importance
	9-4. Worker safety is maintained within acceptable levels

Measure 5-1.1					Measure 5-1.2	Other	
NTFP	Use			Market: existing(E)/ potential(P)	Exists in Mackenzie TSA?	SFM Implication on Non-Timber Values	Notes / Comments
	commercial	personal/cultural	"visual" **				
Fruits & Berries							
Blueberries	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - reforestation activities would create large young stands - but could impact sustainability as stands grow back to mature forests in a particular area, increased access would make these resources more available	Marketed as raw produce as well as baked goods and preserves, they do the best in sunny/partial shade hillsides with young standing forests.
Bramble berries	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	marketed as raw produce as well as baked goods and preserves
Chokecherries	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, timber	Used traditionally as food, for making tea, and as a stimulant, more recently used for making mine, pies and, jelly. They do best on the edge of forests and in dry open areas.

						harvesting would increase desirable habitat and would increase access making these resources more available	
Cloud berries	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	cloud berries are currently harvested as raw produce
Cranberries	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available, roadside activity and road/ditch deactivation or use by the public afterwards could lead to loss of habitat	Cranberries are often found along roadsides, ditches and streams. They were used both traditionally and currently as a food source.
Grapes	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access	grapes are harvested for many food products traditionally and currently such as raw produce, wine and, jelly

Huckleberries	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - reforestation activities would create large young stands - but could impact sustainability as stands grow back to mature forests in a particular area, increased access would make these resources more available	Marketed as raw produce as well as baked goods and preserves, they do the best in sunny/partial shade hillsides with young standing forests.
Salmon berries	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	Does well I wet swampy areas, meadows and, thickets. Harvested for food, jellies, and liquor flavouring
Saskatoon berries	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	Found predominantly in poplar/birch areas. tradition aboriginal preservative, pies, jams, wines, cider, beer, dried snacks

Soopolallie	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	Commonly used traditionally interior native groups as food, medical treatments, trade currency, and gifts. Today they are used still as food and gifts and are common throughout the region but do best in dry to moist open woods and thickets, lowland to mid elevation.
Tayberries	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	harvested for food
wild Raspberries	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight and creating clear cuts - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	are often found in clear cuts, harvested traditionally and currently as food source
wild Strawberries	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in	harvested as a source of food and had medicinal properties as a tea

							a particular area, increased access would make these resources more available	
Botanical								
"Floral Greens"	X	X	X	E & P	yes		the use of pesticides could reduce the quality or quantity of these NTFPs, timber harvesting would increased access and make these resources more available - excessive harvesting in a particular area could decrease habitat, increased growth & yield could come from some increased sunlight	these NTFPs occur in a variety of forested areas
"Medicinals"	potentially	X		E & P	yes		the use of pesticides could reduce the quality or quantity of these NTFPs, timber harvesting would increased access and make these resources more available - excessive harvesting in a particular area could decrease or disturb habitat, potential loss of wet or swampy areas due to soil compaction	Tend to occur predominately in undisturbed forests, specifically wet or swampy areas.
Cattail Shoots	X	X		E & P	potentially		the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access, potential loss of wet or swampy areas, increased access would make these resources more available	Cattails are found abundantly around wet and swampy areas, the shoots are used as food both today and traditionally by native groups, they were also traditionally used to make many things such as, mats, blankets, clothing, medical bandages, diapers, as well as the fluff was used as stuffing for pillows and mattresses

Fiddleheads	X	X		E & P	potentially
Herbals	X	X		E & P	yes
Miners lettuce	X	X		E & P	potentially
Moss	X	X		E & P	yes

the use of pesticides could reduce the quality or quantity of these NTFPs, timber harvesting activities could potentially impact habitat as this plant is fragile to the breaking off of to many fiddleheads, increased access would make these resources more available
the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available
the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - reforestation activities would create large young stands - but could impact sustainability as stands grow back to mature forests in a particular area, increased access would make these resources more available
Timber harvesting would increase access and make these resources more available a large loss of cover my decrease desirable habitat.

Fiddleheads are a quality product found in heavy black dirt, low wet areas and riparian areas. They most likely were harvested and eaten traditionally but some species have potential negative health effects and have been linked with stomach cancer.
herbals are harvested for a large variety of products such as honey, tea, food products / seasonings and, ointment
harvested as produce / food
Moist forested areas. Mosses were used traditionally as medicinals, they also have been used as ingredients in fireworks, early flash photography, and are common in craft stores

Mustard flowers	X	X		E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available, weeds are most successful at establishing in a new area after a disturbance (i.e. logging or road construction)	wide spread weeds capable of growing in harsh conditions, leaves may be used in salads
Queen Anne's lace	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	harvested for florists arrangements, medicinal medicinal qualities
Rose hips	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	harvested for oils, beauty products, medicinal, food products
Salal	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in	does well in open areas or forested, used traditionally, medicinal, food

						a particular area, increased access would make these resources more available	
Stinging nettles	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	is harvested both traditionally and currently for medicinal, fibre for fabric / nets, food
Wildflowers	X	X	X	E & P	yes	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight and creation of large open areas - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	often found in meadows and rec areas, harvested for personal use and seed collection
wild Lettuce	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	similar effects to opium, anaesthetics, sleep aid, medicinal, food & drink

wild Onion	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	found most often near riparian areas, harvested traditionally as food and meat / fish flavouring
wild white Violets	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, increased growth and yield could come as a result of more sunlight - rapid reforestation could impact sustainability as stands grow back to forests in a particular area, increased access would make these resources more available	leaves and flowers are edible and often used as a garnish

Recreational

Camping	X	X	D	E	yes	potential short-term reduction of favourable sites / viewscapes, increased access would make these resources more available	
Cat-skiing	X	potentially		E & P	potentially	potential short-term reduction of favourable sites / viewscapes, increased access would make these resources more available	
Fishing/Boating /Kayaking	X	X	D	E	yes	potential short-term reduction of favourable sites / viewscapes, increased access would make these resources more available	"rocky mountain trench adventures" is a eco/adventure tourism company in Mackenzie
Guides	X	X	D	E	yes	removal of cover, increased access would make the activities associated with guiding more accessible, creation of "grazing" areas may make hunting easier,	

Heli-skiing/hiking	X		D	E & P	potentially
Hunting	X	X	D	E	yes
Lodges	X	X	D	E	yes
Ski hill development	X		D	P	in the works
Ski hill (existing)	X		D	E	yes
Skiing cross country	potentially	X	D	E	yes

increased activity from timber harvesting may scare away animals (short term)
potential short-term reduction of favourable sites / viewscales, increased access would make these resources more available
removal of cover, creation of "grazing" areas, increased activity due to logging may scare away animals (short term), "potential short-term reduction of favourable sites / viewscales, increased access would make these resources more available
potential short-term reduction of favourable sites / viewscales, increased access would make these resources more available
potential short-term reduction of favourable sites / viewscales, increased access would make these resources more available
potential short-term reduction of favourable sites / viewscales, increased access would make these resources more available, roads and skid trails could create potential for new routes

hunting is a source of personal food but may also be sold by individuals as part of economic income, some also hunt for sport

Snowmobile	X	X	D	E	yes	potential short-term reduction of favourable sites / viewsapes, increased access would make these resources more available, roads and skid trails could create potential for new routes	"rocky mountain trench adventures" is a eco/adventure tourism company in Mackenzie
Trappers	X	X		E	yes	removal of cover, increased access would make these resources more available, creation of "grazing" areas, increased activity may scare away animals (short term)	
Wilderness trek guides	X	X	D	E	yes	potential short-term reduction of favourable sites / viewsapes, increased access would make these resources more available, roads and skid trails could create potential for new routes, removal of plant and tree variety	

Trees

Bark (various)	X	X		E	yes	timber harvesting would increase access and make these resources more available and produce easy sources of salvage wood - excessive harvesting in a particular area or debris pile burning could decrease the amount of raw material available	Bark is used for a variety of commercial and personal/cultural products and is collected from forests through-out the region.
Beetle wood	X	X		E	yes	timber harvesting would increase access and make these resources more available and produce easy sources of salvage wood - excessive harvesting in a particular area or debris pile burning could decrease the amount of raw material available	the blue streaked wood has sparked a niche market for such things as flooring, furniture and, decorative pieces

Birch	X	X	X	E	yes	timber harvesting would increase access and make these resources more available and produce easy sources of salvage wood - excessive harvesting in a particular area or debris pile burning could decrease the amount of raw material available	Birch bark & sap is collected through-out the region, Birch syrup production has a growing market
Cedar	X	X	X	E	potentially	timber harvesting would increase access and make these resources more available and produce easy sources of salvage wood - excessive harvesting in a particular area or debris pile burning could decrease the amount of raw material available	Cedar is used as salvage wood, bark is collected for the oil for such things as perfumes, and bows are often marketed at craft stores and as Christmas decorations, this tree was also of great importance traditionally for canoes, homes, clothing, food, and totem poles
Cottonwood	X	X	X	E	potentially	timber harvesting would increase access and make these resources more available and produce easy sources of salvage wood - excessive harvesting in a particular area or debris pile burning could decrease the amount of raw material available	Cottonwood is collected for salvage wood, resinous buds and, pieces for carvings
Fir	X	X	X	E	yes	timber harvesting would increase access and make these resources more available and produce easy sources of salvage wood - excessive harvesting in a particular area or debris pile burning could decrease the amount of raw material available	NTFP harvesting of salvage wood, bark and, sap

Pine	X	X	X	E	yes	timber harvesting would increase access and make these resources more available and produce easy sources of salvage wood - excessive harvesting in a particular area or debris pile burning could decrease the amount of raw material available	NTFPs from pine include salvage wood and sap, these trees were used traditionally as building supplies, making arrows, food, and the pitch was harvested as a base for medicinals and certain rituals
Seed cones	X	X		E	yes	timber harvesting would increase access and make these resources more available and produce easy sources of cones - excessive harvesting in a particular area or debris pile burning could decrease the amount of raw material available	
Spruce	X	X	X	E	yes	timber harvesting would increase access and make these resources more available and produce easy sources of cones - excessive harvesting in a particular area or debris pile burning could decrease the amount of raw material available	NTFPs harvested include salvage wood, bark, and sap. Used traditionally as weaving for baskets and sewing, the pitch was also chewed for pleasure.
Wild harvested Christmas trees	X	X		E	yes	timber harvesting would increase access and make these resources more available	
Other							
Antlers	X	X		E	yes	removal of cover, increased access would make the activities associated with antlers more accessible, creation of "grazing" areas may make hunting easier (and in turn antler collecting), increased activity from logging may scare away animals (short term)	antlers would be collected by hunting or scavenging

Caviar & Roes	X	X		E & P	potentially	increased access to streams could make fishing and collection of these NTFPs more accessible	species known to be in high demand: brook trout, arctic char, steelhead trout, king salmon
Mining	X			E	yes (at least in the works)	timber harvesting would increase access and make these resources more available	
Mushrooms (i.e. morels)	X	X		E & P	potentially	the use of pesticides could reduce the quality or quantity of these NTFPs, morels do really well in forests that have experienced a natural disaster or logging, increased access would make these resources more available	morels are an NTFP with huge market
Truffles	X	X		E & P	yes	grows on tree roots - loss of habitat due to harvesting of trees, increased access would make these resources more available	

** "visual" indicates visual quality, forest landscapes. There are 2 possible entries in this column:
X - Means that NTFP contributes significantly to the visual quality.
D - Means that NTFP depends, at least partially, on visual quality.